

# Packard

Supplying HVACR solutions with your needs in mind.



## Fire it up

DIRECT REPLACEMENT DRAFT INDUCERS FOR  
CARRIER, GOODMAN, LENNOX, TRANE, RHEEM & MORE  
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SELECTION | SERVICE | SATISFACTION





From our warehouse to yours, we're delivering **more than just parts.**

For over 54-years Packard has been delivering wholesalers innovative and high quality replacement HVACR parts and components. But, that's not all.

With every purchase you receive the one-on-one attention of our customer service team, answers to your questions from our knowledgeable technical support staff and sales managers who take the time to get to know you and your business.

We are dedicated to delivering you the **service** you deserve, the buying **selection** and flexibility you need, and the **satisfaction** you want with your products, and for your contractors.



Every customer. Every shipment.  
**We deliver our values.**



## A Note from Tom Campbell, CEO

As yet another year comes to a close, I reflect proudly on Packard's accomplishments and growth. In April of this year we acquired SDC Distributing, allowing us to better serve small to mid-sized OEM customers with quality HVACR components at the best possible value and availability. We also grew our product selection by partnering with Revcor, U.S. Seal Mfg. and ZSI to provide our customers with their industry recognized products. Additionally, we continued to improve upon our ability to better serve more customers with the opening of our Las Vegas warehouse for faster compressor and condensing unit delivery and the addition of a Regional Sales Manager in the Upper Midwest markets.

Packard also took time in 2013 to show support for our nation in times of tragedy. Along with several of our partner brands, a portion of all sales of U.S.A.-made products were donated to help the individuals and families impacted by the tragic Boston Marathon bombings.

Finally, we used this year to further refine the Packard brand. Even though Packard represents over twenty different product manufacturers we approach our customers as one unified source for HVACR solutions. No matter how we grow we will always provide our customers with one-on-one attention and treat each order as an opportunity to build a new relationship. That is our brand promise.

*Thomas G Campbell*

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| <small>NEW</small> R32001 | 112      | <small>NEW</small> R41204 | 114      | <small>NEW</small> R42801 | 111      | TFM50                         | 126  |
| <small>NEW</small> R32002 | 114      | <small>NEW</small> R41205 | 114      | <small>NEW</small> R43001 | 113      | TFM55                         | 126  |
| <small>NEW</small> R32003 | 111, 112 | <small>NEW</small> R41401 | 114      | <small>NEW</small> R43002 | 111      | TFM554                        | 126  |
| <small>NEW</small> R32004 | 111, 112 | <small>NEW</small> R41403 | 114      | <small>NEW</small> R43003 | 113      | TFM556                        | 126  |
| <small>NEW</small> R32005 | 114      | <small>NEW</small> R41404 | 114      | <small>NEW</small> R43004 | 111      | <small>NEW</small> TFS4.5CLX  | 69   |
| <small>NEW</small> R32006 | 114      | <small>NEW</small> R41405 | 114      | <small>NEW</small> R43601 | 111      | TLC310                        | 82   |
| <small>NEW</small> R32007 | 114      | <small>NEW</small> R41406 | 114      | <small>NEW</small> R43602 | 111      | TLC312                        | 82   |
| <small>NEW</small> R32008 | 111, 112 | <small>NEW</small> R41407 | 114      | <small>NEW</small> R43603 | 111      | TLC38                         | 82   |
| <small>NEW</small> R32009 | 111, 112 | <small>NEW</small> R41601 | 114      | <small>NEW</small> R44201 | 111      | TMX125A                       | 95   |
| <small>NEW</small> R32010 | 111, 112 | <small>NEW</small> R41602 | 114      | <small>NEW</small> R44202 | 111      | TMX125B                       | 95   |
| <small>NEW</small> R32011 | 114      | <small>NEW</small> R41603 | 114      | <small>NEW</small> R44801 | 111      | TMX125C                       | 95   |
| <small>NEW</small> R32012 | 114      | <small>NEW</small> R41604 | 114      | <small>NEW</small> R51601 | 114      | TMX130A                       | 95   |
| <small>NEW</small> R32013 | 114      | <small>NEW</small> R41605 | 114      | <small>NEW</small> R51602 | 114      | TMX130B                       | 95   |
| <small>NEW</small> R32014 | 112      | <small>NEW</small> R41606 | 114      | <small>NEW</small> R51801 | 114      | TMX130C                       | 95   |
| <small>NEW</small> R32015 | 114      | <small>NEW</small> R41607 | 113      | <small>NEW</small> R51802 | 114      | TMX140A                       | 95   |
| <small>NEW</small> R32016 | 114      | <small>NEW</small> R41801 | 114      | <small>NEW</small> R51803 | 113      | TMX140B                       | 95   |
| <small>NEW</small> R32017 | 111, 112 | <small>NEW</small> R41802 | 114      | <small>NEW</small> R52201 | 114      | TMX140C                       | 95   |

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| TMX225B                 | 95   | UT2178GKC2-R       | 70   |
| TMX225C                 | 95   | UT6215ZC1-R        | 70   |
| TMX230A                 | 95   | UT6217Z1-R         | 70   |
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| TMX350C                 | 95   | <b>NEW</b> UX31810 | 85   |
| TMX360A                 | 95   | <b>NEW</b> UX31834 | 85   |
| TMX360B                 | 95   | <b>NEW</b> UX3410  | 85   |
| TMX360C                 | 95   | <b>NEW</b> UX3434  | 85   |
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# NO PROGRAMMING REQUIRED

## TAKE IT EASY WITH EVERGREEN EM

### REPLACE 100s OF DIFFERENT OEM X13 ECM MODELS

Highly reliable. Highly efficient. And now, highly available. Genteq's Evergreen EM is designed to replace OEM X13 ECM motors quickly and easily – WITH NO PROGRAMMING REQUIRED. Evergreen EM provides the same comfort, lower utility bills and air quality as the OEM X13 ECM motor, with less hassle for you. With Evergreen EM, increasing your bottom line just got a little easier.



See page 20 for more information



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A Regal Brand

**REGAL**

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## 5 5/8 Inch Diameter Direct Drive Blower Motors



### Features

- Permanent split capacitor
- Continuous air over
- 2 1/2 inch mounting rings
- Class B insulation
- 40°C ambient
- Electrically reversible
- Open enclosure
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase

| Item ID        | H.P.            | Volts   | RPM  | Amps      | Speeds | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Capacitor Required | Notes                   |
|----------------|-----------------|---------|------|-----------|--------|-----------------------|-------------------------|------|----------|--------------------|-------------------------|
| <b>Century</b> |                 |         |      |           |        |                       |                         |      |          |                    |                         |
| DL1026         | 1/4             | 115     | 1075 | 3.50      | 3      | 1/2 x 4 1/2           | 4 1/8                   | PSC  | Sleeve   | 5MFD/370V          |                         |
| D1026          | 1/4             | 208-230 | 1075 | 1.80      | 3      | 1/2 x 4 1/2           | 4 1/8                   | PSC  | Sleeve   | 5MFD/370V          |                         |
| DL1036         | 1/3             | 115     | 1075 | 4.90      | 3      | 1/2 x 4 1/2           | 4 1/2                   | PSC  | Sleeve   | 7.5MFD/370V        |                         |
| D1036AO        | 1/3             | 208-230 | 1075 | 2.60      | 3      | 1/2 x 4 1/2           | 4 3/8                   | PSC  | Sleeve   | 5MFD/370V          |                         |
| DL1056         | 1/2             | 115     | 1075 | 6.50      | 3      | 1/2 x 4 1/2           | 5                       | PSC  | Sleeve   | 10MFD/370V         |                         |
| D1056AO        | 1/2             | 208-230 | 1075 | 3.20      | 3      | 1/2 x 4 1/2           | 4 7/8                   | PSC  | Sleeve   | 7.5MFD/370V        |                         |
| DL1076         | 3/4             | 115     | 1075 | 8.90      | 3      | 1/2 x 4 1/2           | 5 5/8                   | PSC  | Sleeve   | 15MFD/370V         | 264                     |
| D1076          | 3/4             | 208-230 | 1075 | 4.00      | 3      | 1/2 x 4 1/2           | 5 5/8                   | PSC  | Sleeve   | 10MFD/370V         |                         |
| BDL1106        | 1               | 115     | 1075 | 12.30     | 3      | 1/2 x 6               | 6                       | PSC  | Ball     | 20MFD/370V         |                         |
| BD1106         | 1               | 208-230 | 1075 | 5.10      | 3      | 1/2 x 6 1/2           | 5 5/8                   | PSC  | Ball     | 20MFD/370V         | 187 424                 |
| BDH1106        | 1               | 460     | 1100 | 3.20      | 3      | 1/2 x 6 1/2           | 5 7/8                   | PSC  | Ball     | 15MFD/370V         | 187 308 321             |
| <b>Fasco</b>   |                 |         |      |           |        |                       |                         |      |          |                    |                         |
| D721           | 1/4-1/5-1/6     | 115     | 1075 | 4.80      | 3      | 1/2 x 6               | 4                       | PSC  | Sleeve   | 15MFD/370V         | 138 148                 |
| D725           | 1/4-1/6-1/8     | 208/230 | 1075 | 2.20      | 3      | 1/2 x 6               | 4                       | PSC  | Sleeve   | 15MFD/370V         | 138 148                 |
| D727           | 1/3-1/4-1/5     | 115     | 1075 | 5.90      | 3      | 1/2 x 6               | 4 1/4                   | PSC  | Sleeve   | 5MFD/370V          | 138 148                 |
| D923           | 1/3-1/4-1/5     | 208-230 | 1075 | 2.90      | 3      | 1/2 x 6               | 4 1/4                   | PSC  | Sleeve   | 5MFD/370V          | 138 148                 |
| D701           | 1/2-1/3-1/4-1/5 | 115     | 1075 | 7.70      | 4      | 1/2 x 5 1/2           | 5 1/4                   | PSC  | Sleeve   | 10MFD/370V         | 138 148                 |
| D703           | 1/2-1/3-1/4     | 208-230 | 1075 | 4.00      | 3      | 1/2 x 6               | 5                       | PSC  | Sleeve   | 7.5MFD/370V        | 138 148                 |
| D728           | 3/4-1/2-1/3     | 115     | 1075 | 10.50     | 3      | 1/2 x 6               | 5 1/2                   | PSC  | Sleeve   | 10MFD/370V         | 138 148                 |
| D729           | 3/4-1/2-1/3     | 208-230 | 1075 | 5.40      | 3      | 1/2 x 6               | 5 1/2                   | PSC  | Sleeve   | 10MFD/370V         | 138 148                 |
| D712           | 1-1/2-1/3       | 115     | 1075 | 11.80     | 3      | 1/2 x 6               | 6                       | PSC  | Sleeve   | 20MFD/370V         | 138 148                 |
| <b>Packard</b> |                 |         |      |           |        |                       |                         |      |          |                    |                         |
| 43581          | 1/6-1/8-1/10    | 115     | 1075 | 2.50      | 3      | 1/2 x 5 1/2           | 4                       | PSC  | Sleeve   | 5MFD/370V          | GE 3581<br>Emerson 8891 |
| 43582          | 1/6-1/8-1/10    | 208-230 | 1075 | 1.40      | 3      | 1/2 x 7               | 4                       | PSC  | Sleeve   | 5MFD/370V          | GE 3582<br>Emerson 8896 |
| 43583          | 1/4-1/6-1/8     | 115     | 1075 | 4.40      | 3      | 1/2 x 4               | 4                       | PSC  | Sleeve   | 5MFD/370V          | GE 3583<br>Emerson 1863 |
| 43584          | 1/4-1/6-1/8     | 208-230 | 1075 | 1.70      | 3      | 1/2 x 4               | 4                       | PSC  | Sleeve   | 5MFD/370V          | GE 3584<br>Emerson 1971 |
| 43585          | 1/3-1/4-1/6     | 115     | 1075 | 6.30      | 3      | 1/2 x 4               | 4 1/4                   | PSC  | Sleeve   | 5MFD/370V          | GE 3585<br>Emerson 1864 |
| 43586          | 1/3-1/4-1/6     | 208-230 | 1075 | 2.60      | 3      | 1/2 x 4               | 4 1/4                   | PSC  | Sleeve   | 5MFD/370V          | GE 3586<br>Emerson 1972 |
| 43587          | 1/2-1/3-1/4     | 115     | 1075 | 7.50      | 3      | 1/2 x 4               | 5 1/4                   | PSC  | Sleeve   | 5MFD/370V          | GE 3587<br>Emerson 1865 |
| 43588          | 1/2-1/3-1/4     | 208-230 | 1075 | 3.40      | 3      | 1/2 x 4               | 5 1/4                   | PSC  | Sleeve   | 5MFD/370V          | GE 3588<br>Emerson 1973 |
| 43589          | 3/4-1/2-1/3     | 115     | 1075 | 10.50     | 3      | 1/2 x 4               | 5 1/4                   | PSC  | Sleeve   | 15MFD/370V         | GE 3589<br>Emerson 8904 |
| 43590          | 3/4-1/2-1/3     | 208-230 | 1075 | 4.60      | 3      | 1/2 x 4               | 5 1/4                   | PSC  | Sleeve   | 10MFD/370V         | GE 3590<br>Emerson 8905 |
| 48906          | 1               | 115     | 1075 | 9.70      | 3      | 1/2 x 6 1/2           | 5.87                    | PSC  | Ball     | 20MFD/370V         | GE 3595<br>Emerson 8906 |
| 48907          | 1               | 208/230 | 1075 | 4.4 - 5.4 | 3      | 1/2 x 6 1/2           | 5.87                    | PSC  | Ball     | 20MFD/370V         | GE 3596<br>Emerson 8907 |

### Notes:

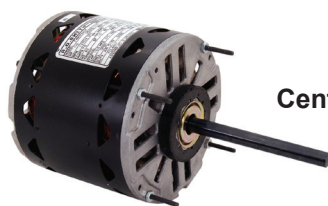
138. All angle mount bearings. Use rain shield when necessary  
148. Ideal for blowers and fans used in furnaces and air-conditioners

187. Resilient mounting rings included  
264. 50°C ambient  
308. Reconnect for separate speeds

321. No extended thru bolts  
424. 1/2" double flat shaft, 2 1/2" rings



## 5 5/8 Inch Diameter Multi-Horsepower Direct Drive Blower Motors



Century MasterFit™



Packard Multi-HP

### Features

- Permanent split capacitor
- Multiple capacitor/speed combinations
- Continuous duty, air over
- Mounting rings, thru bolts and holes in shell
- Class B insulation
- Reversible rotation
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase
- 4 Speed

| Item ID        | H.P.                    | Volts   | RPM  | Amps                         | Rotation   | Type | Bearings | Enclosure | Replaces                       |
|----------------|-------------------------|---------|------|------------------------------|------------|------|----------|-----------|--------------------------------|
| <b>Century</b> |                         |         |      |                              |            |      |          |           |                                |
| <b>FDL6001</b> | 1/2, 1/3, 1/4, 1/5, 1/6 | 115     | 1075 | 7.00, 6.70, 4.40, 3.20, 2.40 | Reversible | PSC  | Sleeve   | Open      | Emerson 5460 Rheem 51-23012-41 |
| <b>FD6000</b>  | 1/2, 1/3, 1/4, 1/5, 1/6 | 208-230 | 1075 | 3.90, 3.60, 2.50, 1.80, 1.30 | Reversible | PSC  | Sleeve   | Open      | Emerson 5461 Rheem 51-23022-41 |
| <b>7FD6000</b> | 1/2, 1/3, 1/4, 1/5, 1/6 | 277     | 1075 | 3.30, 2.30, 1.70, 1.30, 1.00 | Reversible | PSC  | Sleeve   | Open      | —                              |
| <b>FDL6002</b> | 3/4, 1/2, 1/3, 1/4, 1/5 | 115     | 1075 | 9.10, 6.60, 5.50, 3.00, 2.30 | Reversible | PSC  | Ball     | Open      | Emerson 5470                   |
| <b>FD6001</b>  | 3/4, 1/2, 1/3, 1/4, 1/5 | 208-230 | 1075 | 3.90, 3.60, 3.00, 2.30, 2.00 | Reversible | PSC  | Ball     | Open      | Emerson 5471                   |
| <b>7FD6001</b> | 3/4, 1/2, 1/3, 1/4, 1/5 | 277     | 1075 | 3.60, 2.30, 1.70, 1.30, 1.00 | Reversible | PSC  | Ball     | Open      | —                              |

| Item ID        | H.P.                | Volts   | RPM  | Amps                     | Rotation   | Type | Bearings | Enclosure | Replaces                       |
|----------------|---------------------|---------|------|--------------------------|------------|------|----------|-----------|--------------------------------|
| <b>Packard</b> |                     |         |      |                          |            |      |          |           |                                |
| <b>45460</b>   | 1/2-1/3-1/4-1/5-1/6 | 115     | 1075 | 5.80-5.10-3.50-3.20-2.20 | Reversible | PSC  | Sleeve   | Open      | Emerson 5460 Rheem 51-23012-41 |
| <b>45461</b>   | 1/2-1/3-1/4-1/5-1/6 | 208-230 | 1075 | 2.90-2.50-1.80-1.40-1.30 | Reversible | PSC  | Sleeve   | Open      | Emerson 5461 Rheem 51-23022-41 |
| <b>45470</b>   | 3/4-1/2-1/3-1/4-1/5 | 115     | 1075 | 9.10-6.50-5.50-4.00-2.30 | Reversible | PSC  | Ball     | Open      | Emerson 5470 Rheem 51-23017-41 |
| <b>45471</b>   | 3/4-1/2-1/3-1/4-1/5 | 208-230 | 1075 | 4.60-3.30-3.40-2.30-1.70 | Reversible | PSC  | Ball     | Open      | Emerson 5471 Rheem 51-21898-01 |

## 5 5/8 Inch Diameter Torsion Flex Direct Drive Blower Motors



### Features

- Permanent split capacitor
- Continuous air over
- Energy efficient
- Electrically reversible
- Automatic overload
- Open enclosure
- Single phase
- 48 Frame
- 60 Hertz

| Item ID        | H.P. | Volts   | RPM  | Amps      | Speeds | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Capacitor Required |
|----------------|------|---------|------|-----------|--------|------------|-----------------------|-------------------------|------|----------|--------------------|
| <b>Packard</b> |      |         |      |           |        |            |                       |                         |      |          |                    |
| <b>43782</b>   | 1/6  | 115     | 1075 | 2.50      | 3      | Reversible | 1/2 x 5               | 4                       | PSC  | Sleeve   | 5MFD/370V          |
| <b>43783</b>   | 1/4  | 115     | 1075 | 3.60      | 4      | Reversible | 1/2 x 6               | 4                       | PSC  | Sleeve   | 5MFD/370V          |
| <b>43784</b>   | 1/4  | 208-230 | 1075 | 1.80-2.00 | 4      | Reversible | 1/2 x 6               | 4                       | PSC  | Sleeve   | 5MFD/370V          |
| <b>43785</b>   | 1/3  | 115     | 1075 | 4.80      | 4      | Reversible | 1/2 x 6               | 4 1/4                   | PSC  | Sleeve   | 10MFD/370V         |
| <b>43786</b>   | 1/3  | 208-230 | 1075 | 2.30-2.60 | 4      | Reversible | 1/2 x 6               | 4 1/4                   | PSC  | Sleeve   | 10MFD/370V         |
| <b>43787</b>   | 1/2  | 115     | 1075 | 8.00      | 4      | Reversible | 1/2 x 6               | 5 7/8                   | PSC  | Sleeve   | 10MFD/370V         |
| <b>43788</b>   | 1/2  | 208-230 | 1075 | 3.30-4.00 | 4      | Reversible | 1/2 x 6               | 5 7/8                   | PSC  | Sleeve   | 10MFD/370V         |
| <b>43789</b>   | 3/4  | 115     | 1075 | 9.00      | 3      | Reversible | 1/2 x 5               | 5.41                    | PSC  | Sleeve   | 15MFD/370V         |
| <b>43790</b>   | 3/4  | 208-230 | 1075 | 4.50      | 3      | Reversible | 1/2 x 5               | 5.41                    | PSC  | Sleeve   | 10MFD/370V         |

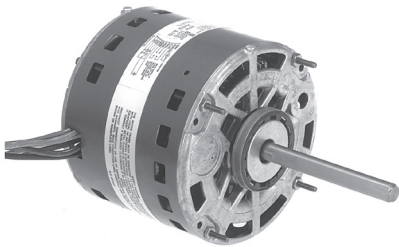
## Two And Three Speed Direct Drive Blower Motors

### Applications

- Designed for continuous air over applications, such as furnace blowers or central air handling units with single shaft requirements.

### Features

- Reversible rotation
- Automatic overload
- Single phase
- 5 1/2 inch diameter
- Permanent split capacitor
- Standard efficiency designs
- 4 inch shaft extension
- Extended thru bolts on shaft end with a mounting kit provided
- Ring kit allows both 2 1/4 inch and 2 1/2 inch resilient ring mounting
- Mounting holes in shell for capacitor bracket
- Designed for 370 Volt capacitor, not included.



| Item ID       | H.P. | Volts   | RPM  | Amps  | Speeds | Rotation   | Type | Bearings |
|---------------|------|---------|------|-------|--------|------------|------|----------|
| <b>genteq</b> |      |         |      |       |        |            |      |          |
| 3383          | 1/4  | 115     | 1075 | 4.20  | 2      | Reversible | PSC  | Sleeve   |
| 3583          | 1/4  | 115     | 1075 | 4.20  | 3      | Reversible | PSC  | Sleeve   |
| 3384          | 1/4  | 208-230 | 1075 | 2.00  | 2      | Reversible | PSC  | Sleeve   |
| 3584          | 1/4  | 208-230 | 1075 | 2.00  | 3      | Reversible | PSC  | Sleeve   |
| 3385          | 1/3  | 115     | 1075 | 6.20  | 2      | Reversible | PSC  | Sleeve   |
| 3585          | 1/3  | 115     | 1075 | 6.10  | 3      | Reversible | PSC  | Sleeve   |
| 3386          | 1/3  | 208-230 | 1075 | 2.90  | 2      | Reversible | PSC  | Sleeve   |
| 3586          | 1/3  | 208-230 | 1075 | 2.70  | 3      | Reversible | PSC  | Sleeve   |
| 3387          | 1/2  | 115     | 1075 | 9.00  | 2      | Reversible | PSC  | Sleeve   |
| 3587          | 1/2  | 115     | 1075 | 9.00  | 3      | Reversible | PSC  | Sleeve   |
| 3388          | 1/2  | 208-230 | 1075 | 4.30  | 2      | Reversible | PSC  | Sleeve   |
| 3588          | 1/2  | 208-230 | 1075 | 4.30  | 3      | Reversible | PSC  | Sleeve   |
| 3389          | 3/4  | 115     | 1075 | 10.30 | 2      | Reversible | PSC  | Sleeve   |
| 3589          | 3/4  | 115     | 1075 | 11.20 | 3      | Reversible | PSC  | Sleeve   |
| 3390          | 3/4  | 208-230 | 1075 | 5.20  | 2      | Reversible | PSC  | Sleeve   |
| 3590          | 3/4  | 208-230 | 1075 | 5.00  | 3      | Reversible | PSC  | Sleeve   |

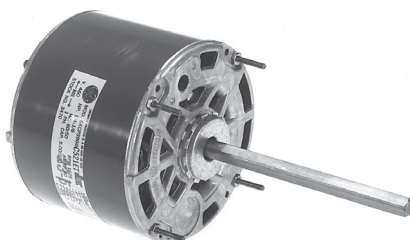
## 460 Volt Two Speed Direct Drive Blower Motors

### Applications

- Designed for continuous air over applications, such as high voltage fan and blower systems.

### Features

- Energy Saver designs
- Ball bearings
- Extended thru bolts
- Designed for 50Hz or 60Hz operation
- Single phase
- 5 1/2 inch diameter
- Open enclosure
- Single shaft
- Automatic overload



| Item ID       | H.P. | Volts | RPM  | Amps | Speeds | Rotation   | Type | Bearings |
|---------------|------|-------|------|------|--------|------------|------|----------|
| <b>genteq</b> |      |       |      |      |        |            |      |          |
| 3470          | 1/4  | 460   | 1625 | 0.80 | 2      | Reversible | PSC  | Ball     |
| 3280          | 1/3  | 460   | 1075 | 1.10 | 2      | Reversible | PSC  | Ball     |
| 3490          | 1/2  | 460   | 1625 | 1.70 | 2      | Reversible | PSC  | Ball     |
| 3290          | 3/4  | 460   | 1075 | 2.10 | 2      | Reversible | PSC  | Ball     |

## Permanent Split Capacitor Condenser Fan Motors

MOTORS



### Features

- Permanent split capacitor
- Single speed
- Reversible rotation
- Totally enclosed
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase

| Item ID        | H.P. | Volts   | RPM  | Amps | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Capacitor Required | Notes           |
|----------------|------|---------|------|------|-----------------------|-------------------------|----------|--------------------|-----------------|
| <b>Century</b> |      |         |      |      |                       |                         |          |                    |                 |
| FSE1016SV1     | 1/6  | 208-230 | 1075 | 0.90 | 1/2 x 6 1/2           | 4                       | Sleeve   | 5MFD/370V          | 189 422         |
| FSE1026SV1     | 1/4  | 208-230 | 1075 | 2.00 | 1/2 x 6 1/2           | 4 3/8                   | Sleeve   | 5MFD/370V          | 189 422         |
| FE1026SC       | 1/4  | 208-230 | 1075 | 1.30 | 1/2 x 6               | 4 5/8                   | Ball     | 5MFD/370V          | 189 246         |
| FSE1036SV1     | 1/3  | 208-230 | 1075 | 1.80 | 1/2 x 6 1/2           | 4 7/8                   | Sleeve   | 7.5MFD/370V        | 189 422         |
| FE1036SC       | 1/3  | 208-230 | 1075 | 1.80 | 1/2 x 6               | 5 1/4                   | Ball     | 7.5MFD/370V        | 189             |
| FSE1056SV1     | 1/2  | 208-230 | 1075 | 2.80 | 1/2 x 6 1/2           | 5 3/8                   | Sleeve   | 10MFD/370V         | 189 422         |
| FE1056SC       | 1/2  | 208-230 | 1075 | 2.80 | 1/2 x 6               | 5 5/8                   | Ball     | 10MFD/370V         | 189             |
| FSE1076SV1     | 3/4  | 208-230 | 1075 | 4.20 | 1/2 x 6 1/2           | 5 5/8                   | Sleeve   | 15MFD/370V         | 189 422         |
| <b>Fasco</b>   |      |         |      |      |                       |                         |          |                    |                 |
| D917           | 1/6  | 208-230 | 1075 | 1.00 | 1/2 x 6 1/2           | 3 3/4                   | Sleeve   | 5MFD/370V          | 126 135 208 517 |
| D909           | 1/4  | 208-230 | 1075 | 1.80 | 1/2 x 6 1/2           | 4                       | Sleeve   | 5MFD/370V          | 126 135 208 517 |
| D7909          | 1/4  | 208-230 | 1075 | 1.80 | 1/2 x 6 1/2           | 4                       | Ball     | 5MFD/370V          | 126 135 208 517 |
| D908           | 1/3  | 208-230 | 1075 | 2.40 | 1/2 x 6 1/2           | 4 1/2                   | Sleeve   | 7.5MFD/370V        | 126 135 208 517 |
| D7908          | 1/3  | 208-230 | 1075 | 2.60 | 1/2 x 6 1/2           | 4 1/2                   | Ball     | 7.5MFD/370V        | 126 135 208 517 |
| D907           | 1/2  | 208-230 | 1075 | 3.70 | 1/2 x 6 1/2           | 4 3/4                   | Sleeve   | 10MFD/370V         | 135 208 517     |
| D7907          | 1/2  | 208-230 | 1075 | 3.70 | 1/2 x 6 1/2           | 5                       | Ball     | 10MFD/370V         | 135 208 517     |
| <b>Packard</b> |      |         |      |      |                       |                         |          |                    |                 |
| 80825          | 1/8  | 208-230 | 825  | 1.00 | 1/2 x 6 1/2           | 3 7/8                   | Ball     | 5MFD/370V          | 126             |
| 43727B         | 1/6  | 208-230 | 1075 | 1.30 | 1/2 x 6               | 3 7/8                   | Ball     | 5MFD/370V          | 126             |
| 60825          | 1/6  | 208-230 | 825  | 1.20 | 1/2 x 6 1/2           | 4 1/4                   | Ball     | 5MFD/370V          | 126             |
| 40825          | 1/4  | 208-230 | 825  | 1.90 | 1/2 x 6 1/2           | 4 1/4                   | Ball     | 5MFD/370V          | 126             |
| 43732          | 1/4  | 208-230 | 1075 | 1.80 | 1/2 x 6 1/2           | 4 1/8                   | Ball     | 5MFD/370V          | 126             |
| 30825          | 1/3  | 208-230 | 825  | 2.10 | 1/2 x 6 1/2           | 5                       | Ball     | 7.5MFD/370V        | 126             |
| 43733          | 1/3  | 208-230 | 1075 | 2.80 | 1/2 x 6 1/2           | 5 1/8                   | Ball     | 7.5MFD/370V        | 126             |
| 43734          | 1/2  | 208-230 | 1075 | 3.50 | 1/2 x 6 1/2           | 5 5/8                   | Ball     | 10MFD/370V         | 126             |
| 43735          | 3/4  | 208-230 | 1075 | 5.10 | 1/2 x 6 1/2           | 5 7/8                   | Ball     | 15MFD/370V         | 126             |

### Notes:

126. 4 drilled and tapped holes in shell for Rheem applications  
135. All angle mount bearings

189. Reversing plug  
208. 60°C ambient  
246. No hubs on either end

422. 1/2" hub on shaft end frame with slinger. Grommet on lead exits.  
517. Electrically reversible

## 5 5/8 Inch Diameter Multi-Horsepower Condenser Fan Motors



### Features

Replaces Rheem and Hundreds of Other Condenser Motors!

- Permanent split capacitor
- UL and CSA approved
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- 5 5/8 inch diameter
- Ball bearings
- Electrically reversible
- All angle mounting
- Automatic overload

| Item ID | H.P.            | Volts   | RPM  | Amps | Shaft<br>Dimension (In.) | Length Less<br>Shaft (In.) | Bearings | Replaces                     |                    |                                                                                  |
|---------|-----------------|---------|------|------|--------------------------|----------------------------|----------|------------------------------|--------------------|----------------------------------------------------------------------------------|
| Packard |                 |         |      |      |                          |                            |          |                              |                    |                                                                                  |
| 45488B  | 1/4-1/5-1/6-1/8 | 208-230 | 825  | 1.70 | 1/2 x 6 13/16            | 5                          | Ball     | Emerson 5464                 | GE 3459<br>GE 4369 | Rheem 51-20760-11<br>Rheem 51-21276-01<br>Rheem 51-23054-13<br>Rheem 51-23055-12 |
| 45458B  | 1/3-1/4-1/5-1/6 | 208-230 | 1075 | 1.70 | 1/2 x 6 13/16            | 5                          | Ball     | Emerson 5458<br>Emerson 5462 | GE 3458<br>GE 3465 | Rheem 51-20354-11<br>Rheem 51-20668-11<br>Rheem 51-23053-11<br>Rheem 51-23055-11 |

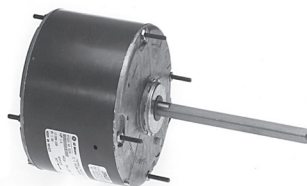
## Condenser Fan Motors

### Applications

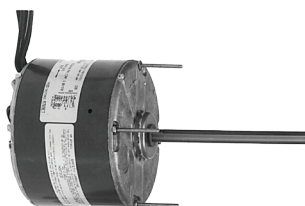
- Designed for condenser fan and heat pump units requiring vertical shaft up or vertical shaft down positioning with “belly band” or extended clamp screw mounting.

### Features

- Permanent split capacitor
- Standard efficiency designs
- Sleeve or ball bearings
- Designed for 370 Volt capacitor, not included
- Mounting holes in shell for capacitor bracket
- Water slinger on shaft
- 26 inch motor leads
- Single phase
- 48 Frame



Shaft Up or Down Application



Shaft Up or Horizontal Application

| Item ID                                            | H.P. | Volts   | RPM  | Amps | Speeds | Rotation   | Type | Bearings | Notes   |
|----------------------------------------------------|------|---------|------|------|--------|------------|------|----------|---------|
| <b>genteq - Shaft Up or Down Application</b>       |      |         |      |      |        |            |      |          |         |
| 3201                                               | 1/10 | 208-230 | 825  | 0.80 | 1      | Reversible | PSC  | Ball     | 1, 5    |
| 3202                                               | 1/8  | 208-230 | 825  | 1.10 | 1      | Reversible | PSC  | Ball     | 1, 5    |
| 3727                                               | 1/6  | 208-230 | 1075 | 1.00 | 1      | Reversible | PSC  | Sleeve   |         |
| 3203                                               | 1/6  | 208-230 | 825  | 1.00 | 1      | Reversible | PSC  | Ball     |         |
| 3403                                               | 1/6  | 208-230 | 825  | 1.00 | 1      | Reversible | PSC  | Sleeve   |         |
| 3728                                               | 1/4  | 208-230 | 1075 | 1.80 | 1      | Reversible | PSC  | Sleeve   | 1       |
| 3732                                               | 1/4  | 208-230 | 1075 | 1.80 | 1      | Reversible | PSC  | Ball     | 2       |
| 3204                                               | 1/4  | 208-230 | 825  | 1.50 | 1      | Reversible | PSC  | Ball     |         |
| 3404                                               | 1/4  | 208-230 | 825  | 1.50 | 1      | Reversible | PSC  | Sleeve   |         |
| 3729                                               | 1/3  | 208-230 | 1075 | 2.30 | 1      | Reversible | PSC  | Sleeve   | 1, 4    |
| 3733                                               | 1/3  | 208-230 | 1075 | 2.30 | 1      | Reversible | PSC  | Ball     | 1       |
| 3205                                               | 1/3  | 208-230 | 825  | 2.20 | 1      | Reversible | PSC  | Ball     |         |
| 3405                                               | 1/3  | 208-230 | 825  | 2.20 | 1      | Reversible | PSC  | Sleeve   |         |
| 3730                                               | 1/2  | 208-230 | 1075 | 3.50 | 1      | Reversible | PSC  | Sleeve   | 1       |
| 3734                                               | 1/2  | 208-230 | 1075 | 3.50 | 1      | Reversible | PSC  | Ball     |         |
| 3731                                               | 3/4  | 208-230 | 1075 | 4.70 | 1      | Reversible | PSC  | Sleeve   |         |
| 3735                                               | 3/4  | 208-230 | 1075 | 4.70 | 1      | Reversible | PSC  | Ball     |         |
| <b>genteq - Shaft Up or Horizontal Application</b> |      |         |      |      |        |            |      |          |         |
| 3327                                               | 1/6  | 208-230 | 1075 | 0.90 | 1      | Reversible | PSC  | Sleeve   | 1, 3, 6 |
| 3328                                               | 1/4  | 208-230 | 1075 | 1.80 | 1      | Reversible | PSC  | Sleeve   | 1, 3    |
| 3329                                               | 1/3  | 208-230 | 1075 | 2.40 | 1      | Reversible | PSC  | Sleeve   | 1, 3, 6 |
| 3330                                               | 1/2  | 208-230 | 1075 | 3.60 | 1      | Reversible | PSC  | Sleeve   | 1, 3, 6 |
| 3331                                               | 3/4  | 208-230 | 1075 | 5.10 | 1      | Reversible | PSC  | Sleeve   | 3, 6    |

#### Notes:

1. Designed for 60°C ambient
2. Designed for 65°C ambient

3. Opposite shaft-end endshield is open
4. TENV construction

5. Designed for 50 or 60 Hertz operation
6. 6" shaft extension with two flats 90° apart





## Evergreen EM

### Replace 100s of Different OEM X13 ECM Models

Evergreen **EM** is Designed to replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor, such as an X13 or equivalent competitor model.

#### Features

- Multi-speed, constant torque, brushless DC motor
- Available in 1/3, 1/2, 3/4 and 1HP ratings
- Automatically determines motor rotation direction
- 5 discrete speeds using 24VAC (3 using 18VDC)
- Operating speed range of 600-1200 rpm
- NEMA 48-frame (5.6 inch diameter) Belly Band Mount with 5-inch long 1/2 inch diameter shaft
- UL and CSA recognized component.
- Standard ECM Replacement (Does not replace premium ECM constant airflow products such as Eon, 3.0, 2.3, and 2.5)
- Maintains ECM-level Efficiency up to 80%
- Soft Start and Off Ramp for quiet operation
- Electronic Overload Protection



Scan for more info



| Item ID                             | H.P. | Volts | RPM      | Amps | Rotation | Dim A (In.) | Dim B (In.) |
|-------------------------------------|------|-------|----------|------|----------|-------------|-------------|
| <b>genteq - Evergreen IM Motors</b> |      |       |          |      |          |             |             |
| <b>NEW</b> 6103E                    | 1/3  | 115   | 600-1200 | 4.8  | CCW/CW   | 10.17       | 5.25        |
| <b>NEW</b> 6105E                    | 1/2  | 115   | 600-1200 | 6.8  | CCW/CW   | 10.67       | 5.75        |
| <b>NEW</b> 6107E                    | 3/4  | 115   | 600-1200 | 8.4  | CCW/CW   | 11.42       | 6.5         |
| <b>NEW</b> 6110E                    | 1    | 115   | 600-1200 | 10.9 | CCW/CW   | 12.17       | 7.25        |

## Evergreen IM

### Energy Savings . Quiet Operation Comfort . Indoor Air Quality

Evergreen **IM** is a high-efficiency ECM replacement motor that is designed to replace factory PSC blower motors in HVAC systems including fossil fuels, electric heat, A/C, heat pump, dual fuel and geothermal; does not replace variable speed or X13 ECM motors.

Evergreen uses up to 25% fewer watts in operating mode and up to 74% fewer Watts than a PSC motor in constant fan.

#### Features

- Two Motors cover most applications
- Multi-volt 115/230VAC, 50/60 Hertz
- Integrated with HVAC system controls/operation
- Four speed selections for heating and cooling
- Optimized constant fan speed
- 1/2 inch diameter flat shaft
- CW/CCW rotation
- 5.5 inch diameter
- Automatic overload protection
- Ball bearing
- Open enclosure
- Band mounting
- Continuous duty



| Item ID                             | H.P.               | Volts   | RPM  | Amps       | Replaces        |
|-------------------------------------|--------------------|---------|------|------------|-----------------|
| <b>genteq - Evergreen IM Motors</b> |                    |         |      |            |                 |
| 6005                                | 1/5, 1/4, 1/3, 1/2 | 115/230 | 1070 | 6.70/4.00  | GE 5SME39HXL110 |
| 6010                                | 1                  | 115/230 | 1070 | 11.00/6.70 | GE 5SME39SXL111 |

Evergreen™ • IM



Scan for more info



## Comfort Select™ ~ FB ECM Motors

### High Efficiency Furnace Blower Motors Utilizing ECM Technology

Comfort Select~FB motors offer ultra quiet operation, premium air quality, and Green Choice® technology resulting in comfort for the home and comfort for the environment. Designed to replace PSC motors in residential and light commercial indoor blower applications.

#### Features

- Available in 1/2 HP and 1 HP configurations to replace 1/4 HP to 1 HP 6-pole PSC motors
- Rated for operation in 50°C ambient in a continuous air-over environment
- Advanced motor protection provides greater operating life and increased reliability
- Connects directly to the Control Board same as the PSC motor was connected
- Five speed taps provide speed-torque profiles similar to multi-speed PSC motors
- Automatic detection of correct rotation for both backward and forward curved blowers
- A learn mode that provides improved efficiency and greater flexibility for matching PSC motor performance in a furnace/air-handler unit
- Available in 115V AC or 208-277V AC input voltage
- No complex wiring modifications or signal wires
- Peak efficiency up to 82%
- Class F motor insulation
- Built-in overheating protection



| Item ID                                         | H.P. | Volts   | RPM      | Amps      | Replaces       |
|-------------------------------------------------|------|---------|----------|-----------|----------------|
| <b>Century - Comfort Select ~ FB ECM Motors</b> |      |         |          |           |                |
| CS1056                                          | 1/2  | 208-277 | 1100-600 | 3.60-3.00 | Emerson 5531ET |
| CS1106                                          | 1    | 208-277 | 1100-600 | 6.90-5.70 | Emerson 5551ET |

## 48/56 Frame, Split Phase Belt Drive Fan And Blower Motors

#### Applications

- Centrifugal pumps, belt drive furnace blowers, fans

#### Features

- 40°C ambient
- Continuous duty
- 5/8 inch shaft adapter and key included
- Resilient base has 48 and 56 Frame mounting holes
- Full Service Factor ratings
- Class B insulation
- Sleeve and ball bearings
- Electrically reversible
- Open drip proof enclosure
- 5 5/8 inch diameter
- Split phase
- Automatic overload
- 60 Hertz
- Single speed



| Item ID                         | H.P. | Volts       | RPM  | Amps            | Rotation   | Service Factor | Shaft Dimension (In.) | Length Less Shaft (In.) | Frame | Bearings | Replaces                                                          |
|---------------------------------|------|-------------|------|-----------------|------------|----------------|-----------------------|-------------------------|-------|----------|-------------------------------------------------------------------|
| <b>Packard - Single Voltage</b> |      |             |      |                 |            |                |                       |                         |       |          |                                                                   |
| 45014                           | 1/4  | 115         | 1725 | 4.80            | Reversible | 1.35           | 1/2 x 1 7/8           | 6 3/4                   | 48/56 | Sleeve   | Emerson 8000 GE 4701<br>Marathon B206 Rotom BF4701 Rotom T5-R840  |
| 45013                           | 1/3  | 115         | 1725 | 5.40            | Reversible | 1.35           | 1/2 x 1 7/8           | 6 3/4                   | 48/56 | Sleeve   | Emerson 8100 GE 4706<br>Marathon B207 Rotom BF4706 Rotom T5-R841  |
| 45012                           | 1/2  | 115         | 1725 | 9.20            | Reversible | 1.25           | 1/2 x 1 7/8           | 7 3/4                   | 48/56 | Sleeve   | Emerson 8200 GE 4708<br>Marathon B208 Rotom BF4708 Rotom T5-R1542 |
| <b>Packard - Dual Voltage</b>   |      |             |      |                 |            |                |                       |                         |       |          |                                                                   |
| 45014D                          | 1/4  | 115/208-230 | 1725 | 4.60/2.20-2.10  | Reversible | 1.30           | 1/2 x 1 7/8           | 6.75                    | 48/56 | Ball     | Marathon 48S17D2055<br>Marathon B303                              |
| 45013D                          | 1/3  | 115/208-230 | 1725 | 6.60/3.40-3.10  | Reversible | 1.35           | 1/2 x 1 7/8           | 6.75                    | 48/56 | Ball     | Marathon 48S17D2057<br>Marathon B305                              |
| 45012D                          | 1/2  | 115/208-230 | 1725 | 7.60/3.70-3.80  | Reversible | 1.25           | 1/2 x 1 7/8           | 8.58                    | 48/56 | Ball     | Marathon 48S17D2059<br>Marathon B307                              |
| 45230D                          | 3/4  | 115/208-230 | 1725 | 11.60/5.90-5.80 | Reversible | 1.25           | 5/8 x 1 7/8           | 10.55                   | 56H   | Ball     | Marathon 56S17D2060                                               |

## Split Phase Resilient Base Motors



### Features

- Continuous duty
- Resilient base mounting
- Reversible rotation
- 40°C ambient
- Open and open drip proof enclosure
- Automatic overload
- Split phase
- 60 Hertz
- Single phase

| Item ID        | H.P. | Volts | RPM  | Full Load Amps | Service Factor | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure       | Diameter (In.) | Frame | Notes |
|----------------|------|-------|------|----------------|----------------|-----------------------|-------------------------|----------|-----------------|----------------|-------|-------|
| <b>Century</b> |      |       |      |                |                |                       |                         |          |                 |                |       |       |
| GF2014         | 1/6  | 115   | 1725 | 4.90           | 1.35           | 1/2 x 1 5/8           | 7.30                    | Sleeve   | Open            | 5 5/8          | 48/56 | 3 266 |
| GF2024         | 1/4  | 115   | 1725 | 5.40           | 1.35           | 1/2 x 1 5/8           | 7.50                    | Sleeve   | Open Drip Proof | 5 5/8          | 48/56 | 3 266 |
| GF2034         | 1/3  | 115   | 1725 | 6.80           | 1.35           | 1/2 x 1 5/8           | 7.80                    | Sleeve   | Open            | 5 5/8          | 48/56 | 3 266 |
| GF2054         | 1/2  | 115   | 1725 | 8.00           | 1.25           | 1/2 x 1 5/8           | 8.30                    | Sleeve   | Open Drip Proof | 5 5/8          | 48/56 | 3 266 |
| GK2074         | 3/4  | 115   | 1725 | 12.20          | 1.25           | 5/8 x 1 7/8           | 8.80                    | Sleeve   | Open            | 6 1/2          | 56    |       |

#### Notes:

3. 5/8" Shaft adapter and key Included

266. 48/56 FR = 1/2" X 1 1/2" shaft with 5/8" shaft adapter - 48/56 slotted 3" height base



### Features

- Continuous duty
- Resilient base mounting
- Reversible rotation
- 40°C ambient
- Open enclosure
- Automatic overload
- Split phase
- 60 Hertz
- Single phase
- Dual Voltage

| Item ID        | H.P. | Volts       | RPM  | Full Load Amps | Service Factor | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure       | Diameter (In.) | Frame | Notes   |
|----------------|------|-------------|------|----------------|----------------|-----------------------|-------------------------|----------|-----------------|----------------|-------|---------|
| <b>Century</b> |      |             |      |                |                |                       |                         |          |                 |                |       |         |
| GF2024D        | 1/4  | 115/208-230 | 1725 | 5.20/2.60      | 1.35           | 1/2 x 1 5/8           | 7 1/2                   | Sleeve   | Open            | 5 5/8          | 48/56 | 266     |
| GF2034D        | 1/3  | 115/230     | 1725 | 6.40/3.20      | 1.35           | 1/2 x 1 5/8           | 7 1/3                   | Sleeve   | Open            | 5 5/8          | 48/56 | 196 266 |
| GF2054D        | 1/2  | 115/208-230 | 1725 | 8.20/4.10      | 1.25           | 1/2 x 1 5/8           | 8 1/3                   | Sleeve   | Open            | 5 5/8          | 48/56 | 266     |
| F681           | 3/4  | 230/115     | 1725 | 5.20/10.40     | 1.25           | 5/8 x 1 7/8           | 9.50                    | Sleeve   | Open Drip Proof | 6 1/2          | 56    |         |
| GK2104DV1      | 1    | 115/230     | 1725 | 15.60/7.80     | 1.25           | 5/8 x 1 7/8           | 10.30                   | Sleeve   | Open            | 6 1/2          | 56    |         |

#### Notes:

196. Suitable for 208 volts @ 1.0 service factor

266. 48/56 FR = 1/2" X 1 1/2" shaft with 5/8" shaft adapter - 48/56 slotted 3" height base

## Capacitor Start Resilient Base Motors



### Features

- Capacitor start, dual voltage
- Single speed
- Resilient base mounting
- Reversible rotation
- Ball bearings
- Automatic overload
- 56 Frame
- 60 Hertz
- Single phase
- Class B insulation

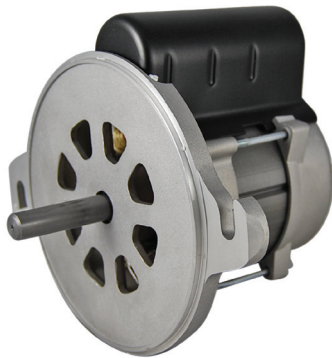
| Item ID        | H.P. | Volts       | RPM  | Full Load Amps  | Service Factor | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Diameter (In.) | Frame | Enclosure       | Notes   |
|----------------|------|-------------|------|-----------------|----------------|-----------------------|-------------------------|----------|----------------|-------|-----------------|---------|
| <b>Century</b> |      |             |      |                 |                |                       |                         |          |                |       |                 |         |
| C412V1         | 1/2  | 115/208-230 | 1725 | 9.00/4.00-4.50  | 1.25           | 5/8 x 2               | 9 1/8                   | Ball     | 6 1/2          | 56    | Open Drip Proof | 205     |
| C426V1         | 3/4  | 115/208-230 | 1725 | 11.00/5.40-5.50 | 1.25           | 5/8 x 2               | 9 1/8                   | Ball     | 6 1/2          | 56    | Open Drip Proof | 205     |
| C523V1         | 1    | 115/208-230 | 1725 | 12.60/6.20-6.30 | 1.15           | 5/8 x 2 3/8           | 9 1/2                   | Ball     | 6 1/2          | 56Z   | Open Drip Proof | 205 510 |

#### Notes:

205. Extended thru bolts, shaft end only

510. 5/8" keyed shaft - 2.31" long

## Permanent Split Capacitor Oil Burner Motor



### Features

- Direct replacement for Beckett 21805U as well as a suitable replacement for many other oil burner motors
- Easy installation with new flange style
- 18 1/2 Inch lead sets Continuous duty
- Automatic thermal protection
- Class F insulation
- 40°C ambient
- UL and CSA recognized
- Open shaft end bracket

### Replaces

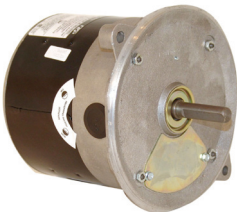
Beckett 21805U  
Emerson 3083  
Emerson 3248  
Emerson 3274

GE 4777  
Marathon 0700  
Nordyne 621945  
Rotom R21805U

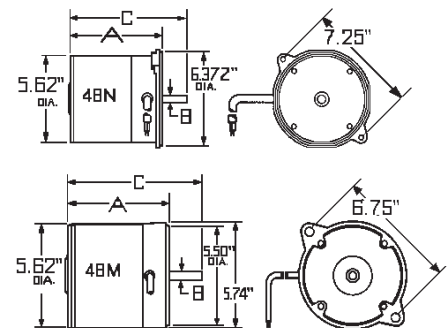
| Item ID               | OBK6002V1        |
|-----------------------|------------------|
| <b>Century</b>        |                  |
| H.P.                  | 1/7              |
| Volts                 | 115              |
| RPM                   | 3450             |
| Amps                  | 1.80             |
| Speeds                | 1                |
| Rotation              | CWOSE            |
| Shaft Dimension (In.) | 1/2 x 1 7/8      |
| Type                  | PSC              |
| Bearing               | Ball             |
| Frame                 | 48M              |
| Enclosure             | Totally Enclosed |
| Mounting              | Flange           |
| Flange Material       | Aluminum         |
| Flange Type           | Ventilated       |
| Hertz                 | 60               |
| Capacitor Included    | 20MFD/250V       |

## Split Phase Oil Burner Motors

N Flange



M Flange



### Features

- Continuous duty
- Totally enclosed
- 40°C ambient
- 5 5/8 Inch diameter
- Split phase
- Manual reset overload
- Single speed
- 60 Hertz
- Single phase

| Item ID        | H.P. | Volts | RPM  | Approximate Full Load Amps | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Frame | Mounting |
|----------------|------|-------|------|----------------------------|------------|-----------------------|-------------------------|----------|-------|----------|
| <b>Century</b> |      |       |      |                            |            |                       |                         |          |       |          |
| EL2004V1       | 1/8  | 115   | 1725 | 2.50                       | Reversible | 1/2 x 1 13/16         | 5 1/4                   | Sleeve   | 48N   | N Flange |
| EL2002         | 1/7  | 115   | 3450 | 2.50                       | Reversible | 1/2 x 1 13/16         | 5 1/2                   | Sleeve   | 48M   | M Flange |
| EL2002V1       | 1/7  | 115   | 3450 | 2.50                       | CCWOSE     | 1/2 x 1 13/16         | 5 1/2                   | Sleeve   | 48M   | M Flange |
| XEL2014        | 1/6  | 115   | 1725 | 3.20                       | Reversible | 1/2 x 1 13/16         | 5 3/4                   | Sleeve   | 48N   | N Flange |
| EL2012         | 1/6  | 115   | 3450 | 2.70                       | Reversible | 1/2 x 1 13/16         | 6                       | Sleeve   | 48M   | M Flange |
| EL2014V1       | 1/6  | 115   | 1725 | 3.20                       | Reversible | 1/2 x 1 13/16         | 5 3/4                   | Sleeve   | 48N   | N Flange |
| EL2022         | 1/4  | 115   | 3450 | 3.40                       | Reversible | 1/2 x 1 13/16         | 6 3/4                   | Sleeve   | 48N   | N Flange |
| EL2024         | 1/4  | 115   | 1725 | 3.70                       | Reversible | 1/2 x 1 13/16         | 6 3/4                   | Sleeve   | 48N   | N Flange |



## Hot Water Circulator Pump Motors

With Cushion Rings

Base Included



### Features

- Replacement motors for use on hot water circulator pumps by Bell and Gossett, Armstrong, Taco and others
- Sleeve and ball bearings
- Cushion rings and base included
- For use with adjustable base
- Special red paint
- Open drip proof
- Automatic overload
- 60 Hertz
- Single phase

| Item ID        | H.P.  | Volts   | RPM  | Full Load Amps | Service Factor | Rotation   | Bearings | Hub to Hub | Shaft Dimension (In.) | Frame | Mounting Type | Replaces                 |
|----------------|-------|---------|------|----------------|----------------|------------|----------|------------|-----------------------|-------|---------------|--------------------------|
| <b>Century</b> |       |         |      |                |                |            |          |            |                       |       |               |                          |
| HW20084L       | 1/12  | 115     | 1725 | 2.70           | 1.00           | CCWLE      | Sleeve   | 7 5/8      | 1/2 x 1/2 flat        | 48YZ  | Cushion Rings | Armstrong Bell & Gossett |
| OTA2004        | 1/12  | 115     | 1725 | 2.90           | 1.00           | Reversible | Sleeve   | 6 1/8      | 1/2 x 7/8 flat        | 48Y   | Cushion Rings | Taco                     |
| OBG2004 *      | 1/8   | 115     | 1725 | 3.10           | 1.00           | Reversible | Sleeve   | —          | 1/2 x 5/8 set screw   | 48Y   | Base Included | Bell & Gossett           |
| HW2014L        | 1/6   | 115     | 1725 | 3.60           | 1.35           | CWLE       | Sleeve   | 7 5/8      | 1/2 x 5/8 flat        | 48YZ  | Cushion Rings | Armstrong Bell & Gossett |
| HW2014V1L      | 1/6   | 115     | 1725 | 3.60           | 1.00           | CWLE       | Sleeve   | 7 7/8      | 1/2 x 5/8 flat        | 48YZ  | Cushion Rings | Armstrong Bell & Gossett |
| C240           | 1/2   | 115/230 | 1725 | 7.20/3.60      | 1.25           | Reversible | Sleeve   | 8 7/8      | 5/8 x 1 7/8 flat      | 56Y   | Cushion Rings | Taco                     |
| C242           | 1/2   | 115/230 | 1725 | 7.20/3.60      | 1.25           | Reversible | Sleeve   | 9 3/4      | 5/8 x 1 3/8 flat      | 56Y   | Cushion Rings | Armstrong                |
| C241           | 1/2   | 115/230 | 1725 | 9.60/4.80      | 1.25           | CWLE       | Sleeve   | 9          | 5/8 x 1 1/8 flat      | 56Y   | Cushion Rings | Bell & Gossett           |
| C243           | 3/4   | 115/230 | 1725 | 11.80/5.90     | 1.25           | CWLE       | Sleeve   | 9          | 5/8 x 1 1/8 flat      | 56Y   | Cushion Rings | Bell & Gossett           |
| C233           | 3/4   | 115/230 | 1725 | 10.40/5.20     | 1.30           | Reversible | Sleeve   | 9 3/4      | 5/8 x 1 3/8 flat      | 56Y   | Cushion Rings | Armstrong                |
| C244           | 3/4   | 115/230 | 1725 | 10.40/5.20     | 1.30           | Reversible | Sleeve   | 9 7/16     | 5/8 x 1 7/8 flat      | 56Y   | Cushion Rings | Taco                     |
| C247           | 1     | 230/115 | 1725 | 6.50/13.00     | 1.25           | Reversible | Sleeve   | 9 5/8      | 5/8 x 1 7/8 flat      | 56Y   | Cushion Rings | Taco                     |
| C245           | 1     | 230/115 | 1725 | 6.50/13.00     | 1.25           | Reversible | Sleeve   | 9 3/4      | 5/8 x 1 3/8 flat      | 56Y   | Cushion Rings | Armstrong                |
| C246           | 1     | 230/115 | 1725 | 6.50/13.00     | 1.25           | Reversible | Sleeve   | 9 3/8      | 5/8 x 1 1/8 flat      | 56Y   | Cushion Rings | Bell & Gossett           |
| C248           | 1 1/2 | 230/115 | 1725 | 7.50/15.00     | 1.20           | Reversible | Ball     | 10 1/5     | 5/8 x 1 7/8 flat      | 56Y   | Cushion Rings | Taco                     |

Notes:

\* Suitable replacement for 1/12 HP and 1/10 HP

## Three Phase Hot Water Circulator Pump Motors



H946  
H982  
H893V1  
H984  
H985  
H986  
H987



H988

### Features

- Cushion ring mounting
- Bell and Gossett, Armstrong and Taco replacement motors
- Sleeve and ball bearings
- No base
- Three phase
- Special red paint
- Open drip proof
- No protector

| Item ID        | H.P.  | Volts       | RPM  | Full Load Amps | Service Factor | Bearings | Hub to Hub | Shaft Dimension (In.) | Frame | Hertz | Replaces                       |
|----------------|-------|-------------|------|----------------|----------------|----------|------------|-----------------------|-------|-------|--------------------------------|
| <b>Century</b> |       |             |      |                |                |          |            |                       |       |       |                                |
| H982           | 3/4   | 208-230/460 | 1800 | 2.50-2.60/1.30 | 1.30           | Sleeve   | 9.43       | 5/8 x 1 7/8           | 56Y   | 60    | Taco                           |
| H893V1         | 3/4   | 208-230/460 | 1800 | 2.50-2.60/1.30 | 1.25           | Sleeve   | 8.87       | 5/8 x 1 1/8           | 56Y   | 60    | 3N824 Armstrong Bell & Gossett |
| H984           | 1     | 208-230/460 | 1800 | 3.40-3.40/1.70 | 1.25           | Sleeve   | 9.82       | 5/8 x 1 3/8           | 56Y   | 60    | Armstrong                      |
| H985           | 1     | 208-230/460 | 1800 | 3.40-3.40/1.70 | 1.25           | Sleeve   | 9.38       | 5/8 x 1 1/8           | 56Y   | 60    | Bell & Gossett                 |
| H946           | 1     | 208-230/460 | 1800 | 3.40-3.40/1.70 | 1.25           | Sleeve   | 9.43       | 5/8 x 1 7/8           | 56Y   | 50/60 | Taco                           |
| H986           | 1 1/2 | 208-230/460 | 1800 | 4.80-5.00/2.50 | 1.15           | Sleeve   | 9.62       | 5/8 x 1 3/8           | 56Y   | 60    | 3N826 Armstrong Bell & Gossett |
| H987           | 2     | 208/230/460 | 1800 | 6.30-6.40/3.20 | 1.15           | Ball     | 9.71       | 5/8 x 1 7/8           | 56Y   | 60    | Taco                           |
| H988           | 3     | 208/230/460 | 1800 | 4.40/9.00-8.80 | 1.15           | Ball     | 11.70      | 7/8 x 2 1/4           | 56Y   | 60    | Taco                           |

## 5 5/8 Inch Diameter Unit Heater Motors



### Features

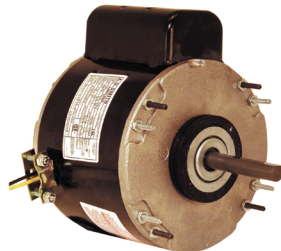
- Permanent split capacitor
- Continuous duty air over
- Ball bearing
- Class B insulation
- Single phase
- Includes capacitor mounted on motor
- Horizontal or vertical mounting
- Dual bolt circle applications, 30-60 degree and 45 degree
- Automatic overload
- UL recognized
- Mounting clamps included

### Replaces

Brownell MTG3206  
Emerson 9034  
GE 3206  
Marathon X302

Packard 70066  
Reznor 55682  
Rotom R12834  
Trane MOT6195

| Item ID                 | 40066            |
|-------------------------|------------------|
| H.P.                    | 1/6              |
| Volts                   | 115              |
| RPM                     | 1075             |
| Amps                    | 2.40             |
| Speeds                  | 1                |
| Rotation                | Reversible       |
| Shaft Dimension (In.)   | 1/2 x 3 3/8      |
| Length Less Shaft (In.) | 4 1/2            |
| Type                    | PSC              |
| Bearing                 | Ball             |
| Enclosure               | Totally Enclosed |
| Mounting                | Stud & Resilient |
| Hertz                   | 60               |
| Overload                | Automatic        |
| Frame                   | 48               |



### Features

- Permanent split capacitor
- Totally enclosed
- Automatic overload
- 60 Hertz
- Single phase

| Item ID        | H.P. | Volts | RPM  | Amps | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Frame | Mounting       | Notes          |
|----------------|------|-------|------|------|------------|-----------------------|-------------------------|------|----------|-------|----------------|----------------|
| <b>Century</b> |      |       |      |      |            |                       |                         |      |          |       |                |                |
| US1016NB       | 1/6  | 115   | 1075 | 2.80 | Reversible | 1/2 x 3               | 4 3/8                   | PSC  | Sleeve   | 48    | Stud           | 28 210 411 504 |
| UH1016         | 1/6  | 115   | 1075 | 2.20 | Reversible | 1/2 x 3 1/4           | 4 1/4                   | PSC  | Ball     | 48    | Resilient Base | 27 208 411 504 |
| US1016         | 1/6  | 115   | 1075 | 2.80 | Reversible | 1/2 x 2 1/2           | 4 3/8                   | PSC  | Sleeve   | 48    | Resilient Base | 27 210 411 504 |
| UH1026         | 1/4  | 115   | 1075 | 4.90 | Reversible | 1/2 x 2 1/2           | 4 3/8                   | PSC  | Ball     | 48    | Resilient Base | 27 210 411 504 |
| US1026         | 1/4  | 115   | 1075 | 4.90 | Reversible | 1/2 x 2 1/2           | 4 3/8                   | PSC  | Sleeve   | 48    | Resilient Base | 27 210 411     |
| US1026NB       | 1/4  | 115   | 1075 | 4.90 | Reversible | 1/2 x 2 1/2           | 4 3/8                   | PSC  | Sleeve   | 48    | Stud           | 28 210 411 504 |
| US1036         | 1/3  | 115   | 1075 | 5.30 | Reversible | 1/2 x 3               | 4 5/8                   | PSC  | Sleeve   | 48    | Resilient Base | 210 411 504    |
| US1036NB       | 1/3  | 115   | 1075 | 5.30 | Reversible | 1/2 x 3               | 4 5/8                   | PSC  | Sleeve   | 48    | Stud           | 28 210 411     |
| UH1036         | 1/3  | 115   | 1075 | 5.30 | Reversible | 1/2 x 3               | 4 5/8                   | PSC  | Ball     | 48    | Resilient Base | 210 411 504    |

### Fasco

|      |     |     |      |      |            |         |       |     |      |    |                 |                 |
|------|-----|-----|------|------|------------|---------|-------|-----|------|----|-----------------|-----------------|
| D732 | 1/3 | 115 | 1075 | 4.10 | Reversible | 1/2 x 5 | 4 3/4 | PSC | Ball | 48 | Resilient Mount | 135 150 151 517 |
|------|-----|-----|------|------|------------|---------|-------|-----|------|----|-----------------|-----------------|

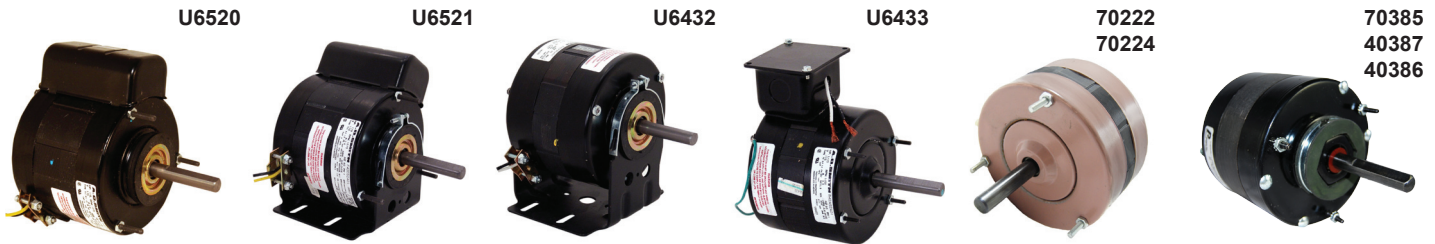
#### Notes:

27. Has a 3" shaft height  
28. No base  
135. All angle mount bearings  
150. Capacitor and base are included

151. Ideal for unit heaters  
208. 60° C ambient  
210. 40° C ambient  
411. 4 thru bolts and 4 dummy studs on a 5.15" diameter bolt circle

504. 60" leads  
517. Electrically reversible

## 5 Inch Diameter Unit Heater Motors



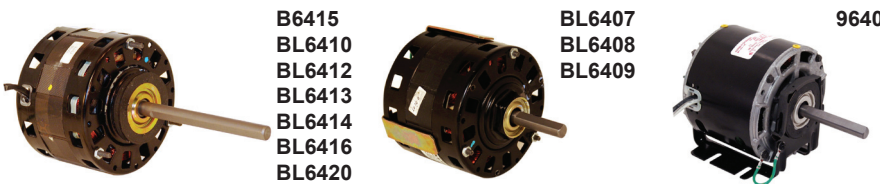
### Features

- U6520 and U6521 have capacitor mounted on motors
- Permanent split capacitor and shaded pole
- Automatic overload
- Sleeve bearings
- Totally enclosed
- 60 Hertz
- Single phase

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type        | Mounting                | Notes       |
|----------------|------|-------|------|------|--------|------------|-----------------------|-------------------------|-------------|-------------------------|-------------|
| <b>Century</b> |      |       |      |      |        |            |                       |                         |             |                         |             |
| U6520          | 1/8  | 115   | 1075 | 2.60 | 1      | Reversible | 1/2 x 3               | 3 7/8                   | PSC         | Resilient Rings         | 201 504     |
| U6521          | 1/8  | 115   | 1075 | 2.60 | 1      | Reversible | 1/2 x 2 7/8           | 3 7/8                   | PSC         | Resilient Base          | 201 504 505 |
| U6432          | 1/15 | 115   | 1050 | 3.30 | 1      | CWSE       | 1/2 x 2 5/8           | 3 5/8                   | Shaded Pole | Resilient Base          | 555         |
| U6433          | 1/15 | 115   | 1050 | 3.30 | 1      | CWSE       | 1/2 x 2 7/8           | 3 5/8                   | Shaded Pole | Stud                    |             |
| <b>Packard</b> |      |       |      |      |        |            |                       |                         |             |                         |             |
| 70222          | 1/40 | 115   | 1050 | 1.60 | 1      | CWSE       | 1/2 x 2 1/2           | 2 5/8                   | Shaded Pole | Stud                    | 9           |
| 70385          | 1/40 | 115   | 1050 | 1.60 | 1      | CWSE       | 1/2 x 3 1/4           | 2 3/4                   | Shaded Pole | Stud and Mounting Rings |             |
| 70224          | 1/20 | 115   | 1050 | 2.30 | 1      | CWSE       | 1/2 x 3               | 3 7/8                   | Shaded Pole | Stud                    | 9           |
| 40387          | 1/15 | 115   | 1050 | 3.30 | 1      | CWSE       | 1/2 x 2 5/8           | 3 5/8                   | Shaded Pole | Stud and Mounting Rings |             |
| 40386          | 1/8  | 115   | 1050 | 5.50 | 1      | CWSE       | 1/2 x 3 3/8           | 3 7/8                   | Shaded Pole | Stud and Mounting Rings |             |

Notes:  
 9. No mounting rings  
 201. 3 thru bolts, 4.42 dia. bolt circle  
 504. 60" leads  
 505. 2.6" shaft height  
 555. 3.5" shaft height

## 5 Inch Diameter Shaded Pole Direct Drive Blower Motors



### Features

- Shaded pole
- 42 Frame
- 60 Hertz
- Single phase
- Automatic overload

| Item ID        | H.P.              | Volts   | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure | Mounting        | Notes       |
|----------------|-------------------|---------|------|------|--------|----------|-----------------------|-------------------------|----------|-----------|-----------------|-------------|
| <b>Century</b> |                   |         |      |      |        |          |                       |                         |          |           |                 |             |
| BL6409         | 1/12              | 115     | 1050 | 3.10 | 1      | CCWLE    | 1/2 x 3               | 3 7/8                   | Sleeve   | Open      | Resilient Rings |             |
| BL6408         | 1/10              | 115     | 1050 | 3.90 | 1      | CCWLE    | 1/2 x 3               | 3 7/8                   | Sleeve   | Open      | Resilient Rings |             |
| BL6410         | 1/8               | 115     | 1050 | 5.20 | 1      | CWSE     | 1/2 x 5 1/2           | 3 3/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| BL6407         | 1/6               | 115     | 1000 | 7.80 | 1      | CCWLE    | 1/2 x 3               | 3 7/8                   | Sleeve   | Open      | Resilient Rings |             |
| BL6412         | 1/6               | 115     | 1050 | 5.50 | 1      | CWSE     | 1/2 x 3 5/8           | 3 7/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| BL6420         | 1/6-1/9           | 115     | 1050 | 5.60 | 2      | CWSE     | 1/2 x 4 1/2           | 3 7/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| BL6413         | 1/5               | 115     | 1050 | 6.00 | 1      | CWSE     | 1/2 x 5 1/2           | 3 3/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| B6415          | 1/5-1/8-1/10      | 208-230 | 1050 | 3.20 | 3      | CWSE     | 1/2 x 5 1/2           | 3 7/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| BL6414         | 1/5-1/8-1/10      | 115     | 1050 | 6.50 | 3      | CWSE     | 1/2 x 5 1/2           | 3 7/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| BL6416         | 1/5-1/8-1/10-1/15 | 115     | 1050 | 7.10 | 4      | CWSE     | 1/2 x 2 5/8           | 3 7/8                   | Sleeve   | Open      | Resilient Rings | 187 201 205 |
| 9640           | 1/6               | 115     | 1550 | 6.40 | 1      | CWLE     | 1/2 x 3 5/16          | 4                       | Sleeve   | Open      | Resilient Base  | 256         |

Notes:  
 187. Resilient mounting rings included  
 201. 3 thru bolts, 4.42 dia. bolt circle  
 205. Extended thru bolts, shaft end only  
 256. Includes base

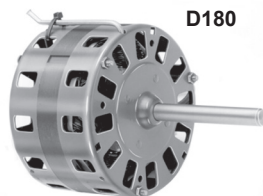
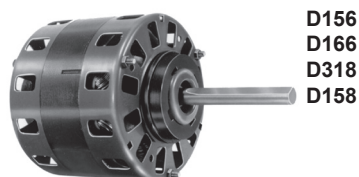
## 5 Inch Diameter Shaded Pole Direct Drive Blower Motors



### Features

- Shaded pole
- CWSE rotation
- Automatic overload
- 42 Frame
- 60 Hertz
- Single phase

| Item ID        | H.P.          | Volts   | RPM  | Amps         | Speeds | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure | Mounting        | Replaces                    |
|----------------|---------------|---------|------|--------------|--------|-----------------------|-------------------------|------|----------|-----------|-----------------|-----------------------------|
| <b>Packard</b> |               |         |      |              |        |                       |                         |      |          |           |                 |                             |
| 40099          | 1/8-1/10-1/12 | 115     | 1050 | 4.30-3.5-3.0 | 3      | 1/2 x 3 1/2           | 4.19                    | SP   | Sleeve   | Open      | Stud            | GE 3541 GE 3931 Magnetek 98 |
| 40318          | 1/6           | 208-230 | 1050 | 3.10-2.20    | 2      | 1/2 x 3 1/2           | 4.00                    | SP   | Sleeve   | Open      | Belly Band      | Trane MOT-6139              |
| 40166          | 1/6           | 115     | 1050 | 6.60         | 2      | 1/2 x 4 1/2           | 3 7/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |
| 40849          | 1/6           | 115     | 1050 | 5.50         | 1      | 1/2 x 3 3/4           | 3 7/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |
| 40850          | 1/5           | 115     | 1050 | 6.50         | 1      | 1/2 x 5 1/2           | 3 3/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |
| 40851          | 1/5           | 115     | 1050 | 6.30         | 2      | 1/2 x 4 1/4           | 3 7/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |
| 40852          | 1/5           | 115     | 1050 | 7.3-4.8-3.8  | 3      | 1/2 x 5               | 3 7/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |
| 40853          | 1/5           | 208-230 | 1050 | 3.20         | 3      | 1/2 x 5 1/2           | 3 7/8                   | SP   | Sleeve   | Open      | Resilient Rings |                             |



### Features

- Shaded pole
- Open enclosure
- Automatic overload
- Single phase
- 60 Hertz

| Item ID                  | H.P.        | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Mounting        | Notes   |
|--------------------------|-------------|-------|------|------|--------|----------|-----------------------|-------------------------|----------|-----------------|---------|
| <b>Fasco Shaded Pole</b> |             |       |      |      |        |          |                       |                         |          |                 |         |
| D156                     | 1/6         | 115   | 1050 | 6.60 | 1      | CWSE     | 1/2 x 3 7/8           | 3 7/8                   | Sleeve   | Resilient Rings |         |
| D166                     | 1/6-1/9     | 115   | 1050 | 7.20 | 2      | CWSE     | 1/2 x 3 1/2           | 3 7/8                   | Sleeve   | Resilient Rings |         |
| D318                     | 1/6-1/8     | 230   | 1050 | 3.10 | 2      | CWSE     | 1/2 x 3 1/2           | 4                       | Sleeve   | Stud            | 9       |
| D158                     | 1/5-1/6-1/7 | 115   | 1050 | 6.70 | 3      | CWSE     | 1/2 x 4 1/8           | 3 7/8                   | Sleeve   | Resilient Rings |         |
| D180                     | 1/8         | 115   | 1050 | 4.50 | 2      | CWSE     | 1/2 x 4               | 3 1/4                   | Sleeve   | Resilient Rings | 9 19 20 |

### Notes:

9. No mounting rings

19. Drilled and tapped for Coleman mounting

20. For International Oil Burner Co.

## Shaded Pole and PSC Direct Drive Blower Motors



### Features

- Open enclosure
- Automatic overload
- 60 Hertz
- Single phase
- Direct replacements for Leslie Locke

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Diameter (In.) | Capacitor Included | Notes                                          |
|----------------|------|-------|------|------|--------|----------|-----------------------|-------------------------|------|----------------|--------------------|------------------------------------------------|
| <b>Packard</b> |      |       |      |      |        |          |                       |                         |      |                |                    |                                                |
| 99320          | —    | 120   | 900  | 3.40 | 1      | CWSE     | 1/2 x 2.02            | 2.27                    | SP   | 5.12           | —                  | L.L. Building V909320                          |
| 99319          | 1/4  | 120   | 1050 | 3.30 | 1      | CWSE     | 1/2 x 2.30            | 3.33                    | PSC  | 5.12           | 10 MFD / 250VAC    | L.L. Building V909319                          |
| 99321          | 1/5  | 120   | 1050 | 3.30 | 1      | CWSE     | 1/2 x 2.30            | 3.33                    | PSC  | 5.12           | 10 MFD / 250VAC    | L.L. Building V909321<br>L.L. Building V909337 |
| 99371          | 1/7  | 120   | 1050 | 2.80 | 1      | CWSE     | 1/2 x 2.30            | 3.08                    | PSC  | 5.12           | 8 MFD / 250VAC     | L.L. Building V909371<br>L.L. Building V909336 |



## 42 Frame Fan Coil Motors



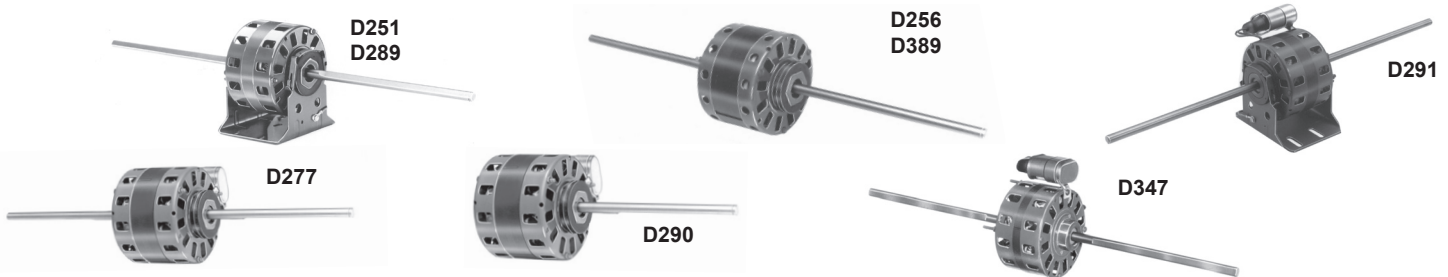
### Features

- Sleeve bearings
- Automatic overload
- Models without a base fit existing bases on most fan coil units
- Shaded pole
- Open enclosure
- Single phase
- 60 Hertz

| Item ID                    | H.P. | Volts   | RPM  | Amps | Speeds | Rotation     | Shaft Dimension (In.) | Length Less Shaft (In.) | Mounting    | Replaces      | Notes |
|----------------------------|------|---------|------|------|--------|--------------|-----------------------|-------------------------|-------------|---------------|-------|
| <b>Packard Shaded Pole</b> |      |         |      |      |        |              |                       |                         |             |               |       |
| 40089                      | 1/10 | 115     | 1050 | 3.60 | 5      | Double Shaft | 10 5/8 x 1/2 x 10 5/8 | 3 3/8                   | Base        |               |       |
| 40093                      | 1/10 | 115     | 1050 | 3.60 | 5      | Double Shaft | 10 5/8 x 3/8 x 10 5/8 | 3 3/8                   | Base        |               |       |
| 40320                      | 1/10 | 208-230 | 1050 | 2.40 | 3      | Double Shaft | 10 5/8 x 1/2 x 10 5/8 | 3 3/8                   | Base        |               |       |
| 40389                      | 1/10 | 115     | 1050 | 3.60 | 5      | Double Shaft | 10 5/8 x 1/2 x 10 5/8 | 3 3/8                   | 2 1/2 Rings |               | 28    |
| 40347                      | 1/8  | 115     | 1550 | 3.30 | 4      | Double Shaft | 10 x 1/2 x 10         | 4                       | Hex Hubs    | Universal 347 | 9 28  |

Notes: 9. No mounting rings

28. No base



### Features

- Sleeve bearings
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase

| Item ID                  | H.P.                     | Volts   | RPM  | Amps                     | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure | Mounting        | Notes   |
|--------------------------|--------------------------|---------|------|--------------------------|-----------------------|-------------------------|-----------|-----------------|---------|
| <b>Fasco Shaded Pole</b> |                          |         |      |                          |                       |                         |           |                 |         |
| D251                     | 1/15-1/35-1/50           | 208-230 | 1050 | 1.20-0.50-0.40           | 9 1/4 x 1/2 x 8 1/2   | 2 5/8                   | Open      | Resilient Base  | 34      |
| D389                     | 1/15-1/20-1/30-1/50      | 115     | 1050 | 2.40-1.60-1.10-0.80      | 10 1/4 x 1/2 x 10 1/4 | 3 1/8                   | Open      | Resilient Rings |         |
| D289                     | 1/10-1/30-1/40-1/45-1/50 | 115     | 1050 | 3.60-1.60-1.20-0.80-0.60 | 10 3/4 x 1/2 x 10 3/4 | 3 1/4                   | Open      | Resilient Base  | 34      |
| D256                     | 1/10-1/20-1/30           | 115     | 1050 | 3.40-1.70-1.00           | 8 x 1/2 x 8           | 3 7/8                   | Open      | Resilient Rings |         |
| D291                     | 1/10-1/15-1/25-1/40      | 115     | 1050 | 2.20-1.40-1.00-0.70      | 10 3/4 x 1/2 x 10 3/4 | 3 1/4                   | Open      | Resilient Base  | 514     |
| D277                     | 1/10-1/12-1/20           | 277     | 1050 | 0.70-0.50-0.40           | 8 1/2 x 1/2 x 8 1/2   | 3 7/8                   | Open      | Resilient Rings | 514     |
| D290                     | 1/10-1/15-1/25-1/40      | 115     | 1050 | 2.20-1.40-1.00-0.70      | 1/2 x 8 1/2           | 3 1/4                   | Open      | Resilient Rings | 514 517 |
| D347                     | 1/8-1/10-1/15-1/20       | 115     | 1550 | 2.30-1.50-1.10-1.70      | 10 1/2 x 1/2 x 10 1/2 | 3                       | Open      | Resilient Rings | 250 514 |

### Notes:

34. 3 1/2" shaft height  
250. Mounting rings not included

514. 4M 370V capacitor included  
517. Electrically reversible



### Features

- Sleeve bearings
- Open enclosure
- Single phase
- 42 Frame
- 60 Hertz
- Permanent split capacitor
- Automatic overload

| Item ID        | H.P.                | Volts   | RPM  | Amps                | Rotation | Shaft Dimension (In.)   | Length Less Shaft (In.) | Mounting       |
|----------------|---------------------|---------|------|---------------------|----------|-------------------------|-------------------------|----------------|
| <b>Century</b> |                     |         |      |                     |          |                         |                         |                |
| DBL4500V1      | 1/10-1/12-1/15      | 115     | 1625 | 1.30-1.00-0.70      | CCWLE    | 9 5/16 x 1/2 x 9 5/16   | 3 3/8                   | Resilient Base |
| DBL6501        | 1/10-1/12-1/15-1/20 | 115     | 1075 | 1.70                | CCWLE    | 10 5/16 x 1/2 x 10 5/16 | 3 3/8                   | Resilient Base |
| DB6502V1       | 1/10-1/15-1/20-1/25 | 208-230 | 1075 | 0.70-0.50-0.40-0.30 | CCWLE    | 9 5/16 x 1/2 x 9 5/16   | 3 3/8                   | Resilient Base |
| DB4505         | 1/5-1/10-1/20       | 230     | 1500 | 1.50                | CCWLE    | 9 5/16 x 1/2 x 9 5/16   | 3 3/8                   | Resilient Base |
| DB6525         | 1/4-1/6-1/10        | 208-230 | 1075 | 2.00                | CCWLE    | 10 x 1/2 x 10           | 4 1/16                  | Resilient Base |
| <b>Packard</b> |                     |         |      |                     |          |                         |                         |                |
| 82456          | 1/25 (5-speeds)     | 115     | 1075 | 0.80                | CCWLE    | 10 5/8 x 1/2 x 10 5/8   | 3/3/8                   | Resilient Base |

## Direct Replacements For General Electric 11 Frame



### Features

- All angle unit bearings
- 60 Hertz
- Automatic overload
- 2.25 inch resilient rings
- Single speed / single phase
- Stud and resilient mounting
- 4 Holes #8-32 UNF-2B on 2.84" bolt circle

| Item ID        | H.P.   | Volts   | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type        | Bearings | Enclosure | Replaces |
|----------------|--------|---------|------|------|----------|-----------------------|-------------------------|-------------|----------|-----------|----------|
| <b>Packard</b> |        |         |      |      |          |                       |                         |             |          |           |          |
| 61431          | 35 MHP | 115     | 1550 | 1.70 | CWOLE    | 5/16 x 1 1/4          | 4.82                    | Shaded Pole | Sleeve   | Open      | GE1431   |
| 61441          | 35 MHP | 115     | 1550 | 1.70 | CCWOLE   | 5/16 x 1 1/4          | 4.82                    | Shaded Pole | Sleeve   | Open      | GE1441   |
| 61432          | 1/30   | 208-230 | 1550 | 0.87 | CWOLE    | 5/16 x 1 1/4          | 4.82                    | Shaded Pole | Sleeve   | Open      | GE1432   |
| 61442          | 35 MHP | 208-230 | 1550 | 0.87 | CCWOLE   | 5/16 x 1 1/4          | 4.82                    | Shaded Pole | Sleeve   | Open      | GE1442   |
| 61331          | 1/20   | 115     | 1550 | 2.20 | CWLE     | 5/16 x 2              | 4.82                    | Shaded Pole | Sleeve   | Open      | GE 1331  |
| 61332          | 1/20   | 208-230 | 1550 | 1.10 | CWLE     | 5/16 x 2              | 4.82                    | Shaded Pole | Sleeve   | Open      | GE 1332  |
| 61232          | 1/15   | 208-230 | 1550 | 0.93 | CWOLE    | 5/16 x 2              | 4.90                    | Shaded Pole | Sleeve   | Open      | GE 1232  |



### Features

- Shaded pole
- Sleeve bearing
- Open enclosure
- 60 Hertz
- Automatic overload
- Bolt circle 2.84"

| Item ID      | H.P. | Volts   | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure | Replaces | Notes       |
|--------------|------|---------|------|------|----------|-----------------------|-------------------------|----------|-----------|----------|-------------|
| <b>Fasco</b> |      |         |      |      |          |                       |                         |          |           |          |             |
| D477         | 1/35 | 208-230 | 1550 | 0.75 | CCW      | 5/16 x 1 5/8          | 4 1/4                   | Sleeve   | Open      | GE 1432  | 40 43 44 46 |
| D471         | 1/20 | 208-230 | 1550 | 1.10 | CCW      | 5/16 x 2 1/2          | 4 1/4                   | Sleeve   | Open      | GE 1332  | 47          |
| D473         | 1/20 | 115     | 1550 | 2.00 | CCW      | 5/16 x 2 5/8          | 4 1/4                   | Sleeve   | Open      | GE 1331  | 47          |
| D472         | 1/20 | 115     | 1550 | 1.90 | CW       | 5/16 x 2 5/8          | 4 1/4                   | Sleeve   | Open      | GE 1341  | 47          |
| D470         | 1/20 | 208-230 | 1550 | 0.94 | CW       | 5/16 x 2 5/8          | 4 1/4                   | Sleeve   | Open      | GE 1342  | 47          |

### Notes:

40. Mounting bracket designed to match the original motor (four 8-36 drilled and tapped holes)  
43. Mounting hardware included

44. Has 22" leads with 1/16" thick insulation  
46. Three studs opposite shaft end are 8-32 on a standard 2.84" bolt circle, 120° apart

47. Includes 1/2" studs for mounting

## Direct Replacements For General Electric 11 Frame



### Features

- Shaded pole
- Stud mounting
- 60 Hertz
- Automatic overload
- Single phase
- Rotation is determined by viewing the shaft end; leads are on shaft end
- Bolt circle 2.84"

| Item ID        | H.P. | Volts   | RPM  | Amps      | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure        | Replaces           | Notes              |
|----------------|------|---------|------|-----------|----------|-----------------------|-------------------------|----------|------------------|--------------------|--------------------|
| <b>Packard</b> |      |         |      |           |          |                       |                         |          |                  |                    |                    |
| 81671          | 1/15 | 115/230 | 1550 | 2.10-1.10 | CCW      | 5/16 x 1 5/8          | 4 1/4                   | Sleeve   | Totally Enclosed | GE 1331<br>GE 1332 | 486 487<br>488 489 |
| 81672          | 1/15 | 115/230 | 1550 | 2.10-1.10 | CW       | 5/16 x 1 5/8          | 4 1/4                   | Sleeve   | Totally Enclosed | GE 1341<br>GE 1342 | 486 487<br>488 489 |

### Notes:

486. Drilled and tapped holes for mounting  
487. Includes 1 7/8" diameter mounting rings

488. 8/32 mounting studs included  
489. Rotation is determined by viewing the lead end

Cast Iron



Aluminum



65133



## Features

- Rotation is determined by viewing the lead end
- Totally enclosed
- 50/60 Hertz



## Cast Iron Unit Bearing Motors

| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Hertz | Mounting         | Replaces                           | Notes   |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------------------|-------|------------------|------------------------------------|---------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |                  |       |                  |                                    |         |
| 61002          | 2     | 115   | 1550 | 0.22 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65111          | 2.5   | 115   | 1000 | 0.26 | CW       | 1/4 x 1/2             | 2 1/4                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5111                            |         |
| 61004          | 4     | 115   | 1550 | 0.29 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65211          | 4     | 115   | 1550 | 0.29 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5211                            |         |
| 65212          | 4     | 115   | 1550 | 0.29 | CCW      | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5212                            |         |
| 65119          | 5     | 115   | 1550 | 0.34 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads | Hill PP7577M                       | 87      |
| 65018          | 5     | 115   | 1550 | 0.34 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5KSM81FFL18                     | 550 551 |
| 61006          | 6     | 115   | 1550 | 0.40 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65311          | 6     | 115   | 1550 | 0.40 | CW       | 1/4 x 1/2             | 2 7/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5311                            |         |
| 65312          | 6     | 115   | 1550 | 0.40 | CCW      | 1/4 x 1/2             | 2 7/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5312                            |         |
| 65411          | 9     | 115   | 1550 | 0.55 | CW       | 1/4 x 1/2             | 2 7/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5411                            |         |
| 65412          | 9     | 115   | 1550 | 0.55 | CCW      | 1/4 x 1/2             | 2 7/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5412                            |         |
| 65421          | 9     | 230   | 1550 | 0.27 | CW       | 1/4 x 1/2             | 2 7/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5421                            |         |
| 61029          | 9     | 230   | 1550 | 0.27 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65017          | 9     | 115   | 1550 | 0.55 | CW       | 1/4 x 1/2             | 2 3/4                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5KSM81FFL17                     | 550 551 |
| 61009          | 9     | 115   | 1550 | 0.55 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65133          | 9     | 115   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5KSM51ECG5133<br>Hussmann 58698 | 87      |
| 61059          | 9     | 230   | 1550 | 0.29 | CCW      | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 61015          | 16    | 115   | 1550 | 1.00 | CW       | 1/4 x 1/2             | 3 1/32                  | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 61016          | 16    | 115   | 1550 | 1.00 | CCW      | 1/4 x 1/2             | 3 1/32                  | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 61017          | 16    | 230   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 3 1/32                  | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 61018          | 16    | 230   | 1550 | 0.50 | CCW      | 1/4 x 1/2             | 3 1/32                  | Totally Enclosed | 50/60 | Double Foot Pads |                                    |         |
| 65811          | 16    | 115   | 1550 | 1.00 | CW       | 1/4 x 1/2             | 3 1/4                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5811                            |         |
| 65812          | 16    | 115   | 1550 | 1.00 | CCW      | 1/4 x 1/2             | 3 1/4                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5812                            |         |
| 65821          | 16    | 230   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 3 1/4                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5821                            |         |

## Aluminum Unit Bearing Motors

| Item ID               | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Hertz | Mounting         | Replaces          | Notes |
|-----------------------|-------|-------|------|------|----------|-----------------------|-------------------------|------------------|-------|------------------|-------------------|-------|
| <b>Morrill Motors</b> |       |       |      |      |          |                       |                         |                  |       |                  |                   |       |
| 10019                 | 9     | 115   | 1550 | 0.53 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 60    | None             | Kyser Warren 5991 | 530   |
| <b>Packard</b>        |       |       |      |      |          |                       |                         |                  |       |                  |                   |       |
| 64102                 | 2     | 115   | 1550 | 0.25 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads | Emerson 102       |       |
| 65109                 | 2     | 115   | 1550 | 0.22 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | No Foot Pad      | GE 5109           | 530   |
| 65213                 | 4     | 115   | 1550 | 0.29 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5213           |       |
| 64022                 | 5     | 115   | 1550 | 0.34 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | No Foot Pad      | Emerson 119       | 87    |
| 65313                 | 6     | 115   | 1550 | 0.40 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5313           |       |
| 64117                 | 6     | 115   | 1550 | 0.40 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads | Emerson 117       |       |
| 64277                 | 6     | 277   | 1550 | 0.17 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads |                   | 557   |
| 65413                 | 9     | 115   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Single Foot Pad  | GE 5413           |       |
| 64108                 | 9     | 115   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads | Emerson 108       |       |
| 64110                 | 9     | 230   | 1550 | 0.27 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Double Foot Pads | Emerson 110       |       |

Notes:  
87. Includes straight Lyall plug  
530. No foot pad

550. Includes 90 degree Lyall plug  
551. Low temp. oil

557. 5 mounting holes opposite the shaft end

## Electric Motors And Specialties Unit Bearing Motors - 35-75 Watts



### Features

- Double foot pad mounting
- Mounting hardware included
- Rotation is determined by viewing the lead end
- UL and CSA approved
- Cast iron
- Shaded pole



| Item ID                               | Watts | Volts   | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Hertz | Replaces                                                 | Notes |
|---------------------------------------|-------|---------|------|------|----------|-----------------------|-------------------------|------------------|-------|----------------------------------------------------------|-------|
| <b>Electric Motor and Specialties</b> |       |         |      |      |          |                       |                         |                  |       |                                                          |       |
| 15020                                 | 35    | 115     | 1500 | 1.40 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | 60    | Tecumseh 810M035A29 EMS ESPL35EM1                        | 479   |
| 15021                                 | 35    | 230     | 1500 | 0.70 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | 60    | Tecumseh 810M035A21<br>Tecumseh 810M035A28 EMS ESPL35EM2 | 479   |
| 15040                                 | 50    | 115     | 1500 | 1.70 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | 60    | Copeland 050-0244-01 EMS ESPOL50EM1                      | 96    |
| 15041                                 | 50    | 230     | 1500 | 0.85 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | 60    | Copeland 050-0244-00 EMS ESPOL50EM2                      | 96    |
| 15045                                 | 50    | 230     | 1500 | 0.85 | CCW      | 5/16 x 2 1/2          | 3 3/4                   | Open             | 60    | Tecumseh 810M050A62 EMS ESPOL50EMJR21                    | 479   |
| 15049                                 | 50    | 208-230 | 1500 | 0.85 | CW       | 3/8 x 1 1/2           | 3 3/4                   | Semi Enclosed    | 50/60 | Copeland 050-0244-00 EMS ESPOL50EM26                     | 96 97 |
| NEW 15460                             | 50    | 460     | 1500 | 0.44 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | 60    | Copeland 050-0244-02 EMS ESPOL50EM461                    | 96    |
| NEW 15461                             | 50    | 460     | 1500 | 0.44 | CCW      | 5/16 x 2              | 3 5/8                   | Open             | 60    | Copeland 050-0264-03                                     |       |
| 15075                                 | 75    | 230     | 1500 | 1.50 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Open             | 60    | EMS ESPOL75EM2                                           | 97    |

Notes:

96. Copeland replacement

97. May be used on 208 Volt applications

479. Tecumseh replacement

## Packard Unit Bearing Motors - Cast Iron 25-50 Watts



### Features

- Double foot pad
- 50/60 Hertz
- Rotation is determined by viewing the lead end



| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Replaces                  |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------------------|---------------------------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |                  |                           |
| 65001          | 25    | 115   | 1500 | 1.10 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | EMS ESPL25EM1 GE 3251     |
| 65002          | 25    | 230   | 1500 | 0.55 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | EMS ESPL25EM2 GE 3253     |
| 65020          | 35    | 115   | 1500 | 1.40 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | EMS ESPL35EM1 GE 3351     |
| 65021          | 35    | 230   | 1500 | 0.70 | CW       | 1/4 x 1/2             | 3 3/8                   | Totally Enclosed | EMS ESPL35EM2 GE 3353     |
| 65040          | 50    | 115   | 1500 | 1.70 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | EMS EPOL50EM1 GE 3501     |
| 65042          | 50    | 115   | 1500 | 1.70 | CCW      | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | EMS EPOL50EMR1 GE 3502    |
| 65041          | 50    | 230   | 1500 | 0.85 | CW       | 3/8 x 1 1/2           | 3 5/8                   | Semi Enclosed    | EMS ESPOL50EM2 GE 3503    |
| 65045          | 50    | 230   | 1500 | 0.85 | CCW      | 5/16 x 2 1/2          | 3 3/4                   | Open             | EMS ESPOL50EMJR21 GE 3507 |

## Direct Replacements For Oasis And Tyler



### Features

- Totally enclosed
- 60 Hertz
- 15990 includes a special plug and plastic water shield; 50/60 Hertz
- Rotation is determined by viewing the lead end

| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Mounting         | Replaces                                                                        |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------|------------------|---------------------------------------------------------------------------------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |      |                  |                                                                                 |
| 10037          | 5     | 115   | 1550 | 0.34 | CWLE     | 1/4 x 1/2             | 2 3/8                   | SP   | Double Foot Pads | Oasis 027354-026 Oasis 027354-037                                               |
| 10038          | 9     | 115   | 1550 | 0.53 | CWLE     | 1/4 x 1/2             | 2 1/2                   | SP   | Double Foot Pads | Oasis 027354-038                                                                |
| 15990          | 9     | 115   | 1550 | 0.23 | CWLE     | 1/4 Threaded          | 2 1/2                   | PSC  | Rear Mounting    | EMS RS4BEB9E12 Tyler 52179990<br>GE 5KPM51BL401B<br>Morril Motors RPSC4BE9BGV16 |





## Solid State Commutated Unit Bearing Motors



10012  
10013  
10020  
10022  
20020  
20022



10035  
10036  
10040



10042



10050  
10052

### Features

- Direct drop-in replacements
- Ultimate commutated technology
- Unit bearing construction
- 100% performance tested
- Includes Lyall plug
- Rotation is determined by viewing opposite shaft end
- Peak efficiencies in excess of 80% means lower operating temperatures and extended motor life
- Constant 1550 RPM operating speed is identical on either 50 or 60 Hertz
- Constant 1550 RPM regardless of fluctuations in voltage

| Item ID               | Watts | Volts   | RPM  | Amps | Rotation | Shaft Dimension (In.) | Hertz | Notes |
|-----------------------|-------|---------|------|------|----------|-----------------------|-------|-------|
| <b>Morrill Motors</b> |       |         |      |      |          |                       |       |       |
| 10012                 | 6-12  | 115     | 1550 | 0.30 | CW       | 1/4 Threaded          | 60    | 554   |
| 10013                 | 6-12  | 115     | 1550 | 0.30 | CCW      | 1/4 Threaded          | 60    | 554   |
| 10020                 | 16-25 | 115     | 1575 | 0.60 | CW       | 1/4 Threaded          | 60    | 554   |
| 10022                 | 16-25 | 115     | 1575 | 0.60 | CCW      | 1/4 Threaded          | 60    | 554   |
| 20020                 | 16-25 | 208-230 | 1575 | 0.30 | CW       | 1/4 Threaded          | 60    | 554   |
| 20022                 | 16-25 | 208-230 | 1575 | 0.30 | CCW      | 1/4 Threaded          | 60    | 554   |
| 10035                 | 35-50 | 115     | 1550 | 0.90 | CW       | 1/4 Threaded          | 50/60 |       |
| 10036                 | 35-50 | 208-230 | 1550 | 0.45 | CW       | 1/4 Threaded          | 50/60 |       |
| 10040                 | 35-50 | 115     | 1550 | 0.90 | CCW      | 1/4 Threaded          | 50/60 |       |
| 10042                 | 35-50 | 208-230 | 1550 | 0.45 | CCW      | 1/4 Threaded          | 50/60 |       |
| 10050                 | 35-50 | 115     | 1550 | 0.90 | CW       | 3/8 x 1 7/8           | 50/60 |       |
| 10052                 | 35-50 | 208-230 | 1550 | 0.45 | CW       | 3/8 x 1 7/8           | 50/60 |       |

### Notes:

554. Includes water shield to protect motor during coil cleaning



10112  
10113  
10116  
10215



10312



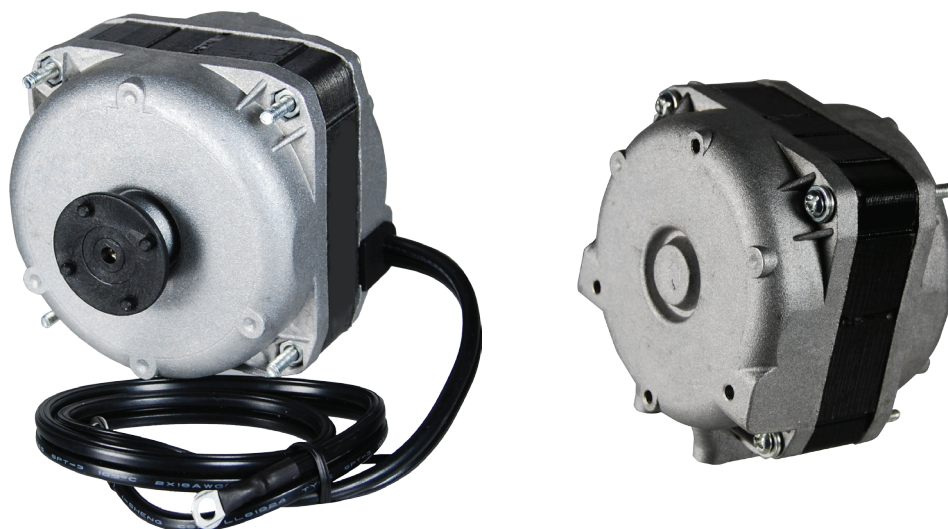
10313



10218  
10219

| Item ID               | Watts | Volts   | RPM  | Amps | Rotation | Plug                   | Hertz | Foot Pads | Material  | Replaces   |
|-----------------------|-------|---------|------|------|----------|------------------------|-------|-----------|-----------|------------|
| <b>Morrill Motors</b> |       |         |      |      |          |                        |       |           |           |            |
| 10112                 | 12    | 115     | 1550 | 0.30 | CWLE     | Straight 2 Prong Plug  | 50/60 | Double    | Aluminum  | 12CSHEMA1  |
| 10312                 | 12    | 115     | 1550 | 0.30 | CWLE     | 90 Degree 2 Prong Plug | 50/60 | Double    | Aluminum  | 12CSHBV2   |
| 10313                 | 12    | 115     | 1550 | 0.30 | CWLE     | 90 Degree 2 Prong Plug | 50/60 | Double    | Aluminum  | 12CSHEMV1  |
| 10113                 | 13    | 115     | 1550 | 0.40 | CWLE     | Straight 2 Prong Plug  | 50/60 | Double    | Aluminum  | 13CSHEMA1  |
| 10215                 | 12    | 230     | 1550 | 0.15 | CWLE     | Straight 2 Prong Plug  | 50/60 | Double    | Aluminum  | 15CSHEMA2  |
| 10116                 | 16    | 115     | 1550 | 0.60 | CWLE     | Straight 2 Prong Plug  | 50/60 | Double    | Aluminum  | 16SCSHEMA1 |
| 10218                 | 18    | 115     | 1550 | 0.90 | CCWLE    | Straight 2 Prong Plug  | 50/60 | Double    | Cast Iron | 18AHEMAR1  |
| 10219                 | 19    | 208-230 | 1550 | 0.45 | CCWLE    | Straight 2 Prong Plug  | 50/60 | Double    | Cast Iron | 19AHMAR2   |

## Square Frame Unit Bearing Motors



### Applications

- Industrial and commercial refrigeration fans for condensing, ventilating and evaporator units, walk-in and reach-in coolers, freezers, food and beverage chillers.

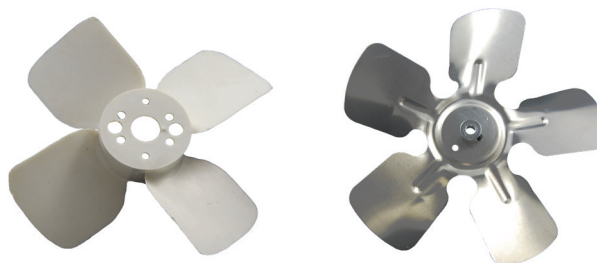
### Features

- All angle self-aligning sleeve bearings
- Totally Enclosed
- Continuous air over
- Class B insulation
- Standard operating temperatures: -40°F to + 104°F (-40°C to +40°C)
- UL listed, CSA approved
- Rear mount: 3 tapped holes #8-36 thread
- Foot mount: 4 holes, #8-36 thread

| Item ID        | Watts | Volts | RPM  | Amps | Rotation    | Protection |
|----------------|-------|-------|------|------|-------------|------------|
| <b>Packard</b> |       |       |      |      |             |            |
| PSQ4CW115      | 4     | 115   | 1550 | 0.36 | CW Lead End | Impedence  |
| PSQ5CW115      | 5     | 115   | 1550 | 0.40 | CW Lead End | Thermal    |
| PSQ6CW115      | 6     | 115   | 1550 | 0.41 | CW Lead End | Impedence  |
| PSQ9CW115      | 9     | 115   | 1550 | 0.58 | CW Lead End | Thermal    |
| PSQ9CW230      | 9     | 230   | 1550 | 0.35 | CW Lead End | Thermal    |
| PSQ18CW115     | 18    | 115   | 1550 | 1.00 | CW Lead End | Thermal    |
| PSQ18CW230     | 18    | 230   | 1550 | 0.50 | CW Lead End | Thermal    |



For full line of evaporator fan blades, see page 116-117.





Packard supplies product choices which offer energy efficient and environmentally conscious features. Pledging to make even one energy efficient change can help reduce our taxing impact on the planet's natural resources, making for a better world for future generations.

### 3.3 Inch Diameter Electronically Commutated Motors



Manufactured by  
 morrillmotors

#### Features

- Commercial refrigeration walk-in coolers and freezers, air-moving applications demanding high efficiency and dependability
- Efficiencies up to three times higher than shaded pole motors and 40% higher than PSC
- Ball bearing with low temperature grease
- Standard thru-bolt configuration
- All angle mount
- Totally enclosed, air over
- Rotation viewed opposite shaft end (OSE)
- Water Slinger
- Automatic overload
- 50/60 Hertz
- Single phase
- Single speed

| Item ID                                 | H.P. | Volts   | RPM  | Amps | OSE Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure        | Mounting                | Replaces         |
|-----------------------------------------|------|---------|------|------|--------------|-----------------------|-------------------------|----------|------------------|-------------------------|------------------|
| <b>Morrill Motors - Arctic 59 Model</b> |      |         |      |      |              |                       |                         |          |                  |                         |                  |
| 35100                                   | 1/15 | 115     | 1550 | 1.30 | CW           | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front or Rear Thru-Bolt | Larkin 253-1194  |
| 35101                                   | 1/15 | 115     | 1550 | 1.30 | CCW          | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front or Rear Thru-Bolt | Bohn 5008S       |
| 35103                                   | 1/15 | 115     | 1550 | 1.30 | CW           | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front (Shat End) Only   | GE 5SME59BLA1060 |
| 35102                                   | 1/15 | 115     | 1550 | 1.30 | CCW          | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front (Shat End) Only   | GE 5SME59BLA1058 |
| 35200                                   | 1/15 | 208-230 | 1550 | 0.80 | CW           | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front or Rear Thru-Bolt | Larkin 253-1195  |
| 35201                                   | 1/15 | 208-230 | 1550 | 0.80 | CCW          | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front or Rear Thru-Bolt | Bohn 5008T       |
| 35203                                   | 1/15 | 208-230 | 1550 | 0.80 | CW           | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front (Shat End) Only   | GE 5SME59BLA2061 |
| 35202                                   | 1/15 | 208-230 | 1550 | 0.80 | CCW          | 5/16 x 4 1/8          | 2 5/8                   | Ball     | Totally Enclosed | Front (Shat End) Only   | GE 5SME59BLA2059 |



| Item ID                          | H.P.               | Volts   | RPM  | Amps       | Replaces        |
|----------------------------------|--------------------|---------|------|------------|-----------------|
| <b>genteq - Evergreen Motors</b> |                    |         |      |            |                 |
| 6005                             | 1/5, 1/4, 1/3, 1/2 | 115/230 | 1070 | 6.70/4.00  | GE 5SME39HXL110 |
| 6010                             | 1                  | 115/230 | 1070 | 11.00/6.70 | GE 5SME39SXL111 |

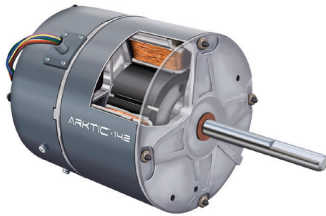


| Item ID                                         | H.P. | Volts   | RPM      | Amps      | Replaces       |
|-------------------------------------------------|------|---------|----------|-----------|----------------|
| <b>Century - Comfort Select ~ FB ECM Motors</b> |      |         |          |           |                |
| CS1056                                          | 1/2  | 208-277 | 1100-600 | 3.60-3.00 | Emerson 5531ET |
| CS1106                                          | 1    | 208-277 | 1100-600 | 6.90-5.70 | Emerson 5551ET |





## ARKTIC™ 142 Motor



## Features

- Shaft water slinger
- 26 inch cord set attached to motor
- Horizontal - vertical down orientation desired
- Totally enclosed, Non-vented (air-over ECM required)
- Designed for 50 or 60 Hertz operation
- RoHS compliant NEMA 48 Frame electronically commutated motor

## Applications

- Designed primarily for use in the evaporator of commercial refrigeration and walk-in coolers and freezers as well as outdoor condensers, but can be used in many applications demanding high efficiency and dependability with output ratings between 1/5 - 1 H.P. including parallel rack fan motors.

| Item ID               | H.P. | Volts | RPM  | Amps      | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings |
|-----------------------|------|-------|------|-----------|--------|----------|-----------------------|-------------------------|----------|
| <b>Morrill Motors</b> |      |       |      |           |        |          |                       |                         |          |
| 5R007                 | 1/3  | 230   | 1075 | 2.60-3.50 | 1      | CCW      | 1/2 x 4               | 10                      | Ball     |

## Drop In Replacements For Commercial Refrigeration Evaporator Fan Motors



## Features

- Energy savings ECM design
- Ball bearings
- 60 Hertz
- Replaces Heatcraft, Bohn, Chandler, Climate Control and Larkin
- 42 Frame
- Class B insulation
- Four mounting studs on each end
- Includes Lyall plug
- Replaces 1/15, 1/20, 1/25 HP PSC and lower efficient shaded pole designs

| Item ID        | H.P.             | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Mounting | Replaces                                                                             |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|-------------------------|----------|----------|--------------------------------------------------------------------------------------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |                         |          |          |                                                                                      |
| 97801          | 1/15, 1/20, 1/25 | 120   | 1625 | 1.20 | 1      | CWSE     | 5/16 x 2.95           | 2.85                    | Ball     | Stud     | Heatcraft 22617801<br>Heatcraft 22618001<br>Heatcraft 25307801<br>Heatcraft 25308001 |
| 97701          | 1/15, 1/20, 1/25 | 230   | 1625 | 0.70 | 1      | CWSE     | 5/16 x 2.95           | 2.85                    | Ball     | Stud     | Heatcraft 22617701<br>Heatcraft 22617901<br>Heatcraft 25307701<br>Heatcraft 25307901 |

## High Efficient Motors - ECM-IP Series

ECHE0147  
ECE0176  
ECE0182

ECHE0170

## Features

- Electronically commutated - 115V, 50/60Hz
- Moisture protection: IP65
- Front mount: M4 studs on 3.72" B.C. for shroud / guard
- Drop-in replacement for front mount shaded pole / ECM
- CCW rotation from the shaft end
- All angle mount
- Totally enclosed
- Continuous air over
- Long-life sealed ball bearings

| Item ID     | Watts | Volts | RPM  | Amps | Rotation | Length Less Shaft (In.) | Cord Length (In.) | Terminal / Plug | Replaces                                           |
|-------------|-------|-------|------|------|----------|-------------------------|-------------------|-----------------|----------------------------------------------------|
| <b>Elco</b> |       |       |      |      |          |                         |                   |                 |                                                    |
| ECHE0147    | 12    | 115   | 1450 | 0.18 | CCWSE    | 3.61                    | 14                | 3 pin 90°       | EDA12153UC0147<br>34410013<br>34410009<br>24681010 |
| ECHE0170    | 12    | 115   | 1450 | 0.18 | CCWSE    | 3.62                    | 14                | 3 pin 90°       | EDA12153UN0170<br>34410012<br>(For Fan 34415010)   |
| ECHE0176    | 15    | 115   | 1600 | 0.22 | CCWSE    | 4.00                    | 16                | 2 pin 90°       | EDA15253UC0176<br>P078449H                         |
| ECHE0182    | 10    | 115   | 1550 | 0.19 | CCWSE    | 3.61                    | 16                | 2 pin 90°       | EDA10153UC0182<br>P079441C<br>P066237A             |





## Electronically Commutated Motors

**ECR ONE**  
Constant Torque Motor



**ECR UltraSynch™**  
Constant Speed Motor



| Item ID        | Watts | Volts | RPM  | Amps | Hertz |
|----------------|-------|-------|------|------|-------|
| <b>ECR ONE</b> |       |       |      |      |       |
| ECR01A0101     | 9     | 115   | 1550 | 0.23 | 60    |
| ECR01A0102     | 12    | 115   | 1550 | 0.31 | 60    |
| ECR01A0243*    | 16    | 115   | 1550 | 0.41 | 60    |

\*7 Drilled and tapped inserts for mounting.

| Item ID                | Watts | Volts | RPM  | Amps | Hertz |
|------------------------|-------|-------|------|------|-------|
| <b>ECR UltraSynch™</b> |       |       |      |      |       |
| ECR92PJA12             | 9-16  | 120   | 1800 | 0.34 | 60    |

### Applications

- Supermarket refrigeration, beverage dispensers, vending machines and other condenser and evaporator applications

### Features

- Drop in replacement for shaded pole and PSC motors
- Electronically commutated motors with integrated electronic control
- ECR efficiency rate: up to 70%
- High moisture and dust protection: IP55. A conformal coating is applied to the electronic control board for complete moisture protection.
- Totally enclosed, ball bearings, CCWSE rotation, can be mounted in any position.
- Operating temperature of ECR ONE motors: -22°F to +122°F
- Operating temperature of ECR UltraSynch motors: -22°F to +104°F
- Advanced plastic housing. Motors are built using 30% less copper and 80% less steel for a greener, more affordable electronically commutated solution.
- ECR UltraSynch motor includes Lyall plug.
- UL approved
- **ECR ONE is a constant torque motor and will replace a shaded pole motor of matching wattage using the same fan blade.**
- **ECR UltraSynch is a constant speed motor that will operate at 1800 RPM over a wide range of voltage and load conditions. The correct fan blade must be specified to properly balance system air flow.**

## Electronically Commutated Refrigeration Motors And Fan Kits



Manufactured by

**Wellington®**

| Item ID  | ECR92950                                                                                                                                       | ECR921200                                                                                                                                      | ECR921400                                                                                                                                      |
|----------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|
| Replaces | GE FAN PACK 5SME58AAF1430<br>900 & 950 RPM                                                                                                     | GE FAN PACK 5SME58AAF1430<br>1100 & 1200 RPM                                                                                                   | GE FAN PACK 5SME58AAF1430<br>1300 & 1400 RPM                                                                                                   |
| Includes | <ul style="list-style-type: none"> <li>• ECR92JA12 Motor</li> <li>• IMS100059 Mounting Shroud</li> <li>• 8 Inch 15 Degree Fan Blade</li> </ul> | <ul style="list-style-type: none"> <li>• ECR92JA12 Motor</li> <li>• IMS100059 Mounting Shroud</li> <li>• 8 Inch 25 Degree Fan Blade</li> </ul> | <ul style="list-style-type: none"> <li>• ECR92JA12 Motor</li> <li>• IMS100059 Mounting Shroud</li> <li>• 8 Inch 28 Degree Fan Blade</li> </ul> |

## 3.3 Inch Diameter Motors Open Enclosure



40120  
40121  
40126  
40132  
40133  
40188  
40189



82583  
82308  
82584



40752

### Features

- Shaded pole
- Automatic overload
- Open enclosure
- 60 Hertz
- Single phase
- Rotation is determined by viewing the shaft end

| Item ID        | H.P.  | Volts   | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Mounting       | Replaces                                           | Notes  |
|----------------|-------|---------|------|------|----------|-----------------------|-------------------------|----------|----------------|----------------------------------------------------|--------|
| <b>Packard</b> |       |         |      |      |          |                       |                         |          |                |                                                    |        |
| 82583          | 1/100 | 120     | 1550 | 0.55 | CCW      | 5/16 x 1 3/4          | 2 1/2                   | Sleeve   | Resilient Hubs | Broan 97008583                                     | 45 513 |
| 82308          | 1/100 | 115     | 3000 | 0.57 | CCW      | 1/4 x 2 1/2           | 2 1/16                  | Sleeve   | Stud           | Emerson 9600<br>Magnetek 308<br>Universal U308     |        |
| 40120          | 1/70  | 115     | 1550 | 0.70 | CW       | 1/4 x 2 1/4           | 2 1/16                  | Sleeve   | Stud           | Emerson 9621                                       | 329    |
| 40121          | 1/70  | 115     | 1550 | 0.70 | CCW      | 1/4 x 2 1/4           | 2 1/16                  | Sleeve   | Stud           | Trane MOT-6225                                     | 329    |
| 40752          | 1/40  | 120     | 1500 | 1.30 | CCW      | 1/4 x 1 1/2           | 2 1/8                   | Sleeve   | Stud           | Broan 97009752<br>Broan 99080096<br>Broan 99080345 | 512    |
| 40126          | 1/40  | 115     | 1550 | 1.10 | CW       | 5/16 x 2 1/4          | 2 7/16                  | Sleeve   | Stud           |                                                    | 329    |
| 82584          | 1/30  | 120     | 1550 | 1.20 | CCW      | 5/16 x 1 3/4          | 2 1/2                   | Sleeve   | Resilient Hubs | Broan 97008584                                     | 513    |
| 40188          | 1/20  | 208-230 | 1550 | 0.80 | CW       | 5/16 x 2 5/16         | 2 3/4                   | Sleeve   | Stud           | Emerson 9648                                       | 329    |
| 40189          | 1/20  | 208-230 | 1550 | 0.80 | CCW      | 5/16 x 2 5/16         | 2 3/4                   | Sleeve   | Stud           | Emerson 9647                                       | 329    |
| 40132          | 1/20  | 115     | 1550 | 1.80 | CW       | 5/16 x 2 1/4          | 2 3/4                   | Sleeve   | Stud           |                                                    | 329    |
| 40133          | 1/20  | 115     | 1550 | 1.80 | CCW      | 5/16 x 2 1/4          | 2 3/4                   | Sleeve   | Stud           | Emerson 1548<br>Emerson 9631                       | 329    |

#### Notes:

45. Impedence protected  
329. Motor has 4 studs on both ends

512. With cord and 2 prong 90 degree plug

513. Special plug and cord attached

## 3.3 Inch Diameter Motors Totally Enclosed



### Features

Ideal replacement for many range hoods

- Shaded pole
- Totally enclosed
- Stud mounting
- Automatic overload
- Single phase
- 60 Hertz
- Rotation is determined by viewing the shaft end

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Mounting | Notes |
|----------------|------|-------|------|------|--------|----------|-----------------------|-------------------------|----------|----------|-------|
| <b>Packard</b> |      |       |      |      |        |          |                       |                         |          |          |       |
| 40122          | 1/80 | 115   | 1550 | 0.65 | 1      | CW       | 1/4 x 2 1/4           | 2 1/16                  | Sleeve   | Stud     | 329   |
| 40123          | 1/80 | 115   | 1550 | 0.65 | 1      | CCW      | 1/4 x 2 1/4           | 2 1/16                  | Sleeve   | Stud     | 329   |
| 40124          | 1/50 | 115   | 1500 | 0.88 | 1      | CW       | 1/4 x 2 1/4           | 2 3/8                   | Sleeve   | Stud     | 329   |
| 40125          | 1/50 | 115   | 1550 | 0.80 | 1      | CCW      | 1/4 x 2 1/4           | 2 3/8                   | Sleeve   | Stud     | 329   |

#### Notes:

329. Motor has 4 studs on both ends

### 3.3 Inch Diameter Nutone Replacement Assemblies



#### Features

- Complete assembly
- Includes motor, mounting bracket and blower wheel
- Shaded pole
- Automatic overload
- 60 Hertz
- Single phase

| Item ID        | H.P.  | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Mounting       | Replaces                        |
|----------------|-------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|----------------|---------------------------------|
| <b>Packard</b> |       |       |      |      |        |          |                       |      |          |           |                |                                 |
| 40695          | 1/100 | 120   | 1180 | 0.60 | 1      | CWSE     | 1/4 x 1 1/8           | SP   | Sleeve   | Open      | Mounting Plate | Nutone 0695B000                 |
| 40696          | 1/45  | 115   | 1400 | 0.70 | 1      | CCWLE    | 1/4 x 1               | SP   | Sleeve   | Open      | Mounting Plate | Nutone 0696B000<br>Nutone 86322 |

### 3.3 Inch Diameter Fan And Blower Duty Nutone Replacements



82512  
82514  
82635  
82637  
82733



82513



80600



82510



82694K



82621



40933

#### Features

- Direct replacements for Nutone and many other popular range hoods
- Rotation is determined by viewing the shaft end
- Shaded pole
- Stud mounting
- Automatic overload
- Single phase
- 60 Hertz

| Item ID        | H.P.      | Volts | RPM  | Amps      | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Bearings | Enclosure        | Replaces                                             | Notes  |
|----------------|-----------|-------|------|-----------|----------|-----------------------|-------------------------|----------|------------------|------------------------------------------------------|--------|
| <b>Packard</b> |           |       |      |           |          |                       |                         |          |                  |                                                      |        |
| 82512          | 1/100     | 115   | 1550 | 0.70      | CCW      | 1/4 x 1 1/8           | 2 1/16                  | Sleeve   | Totally Enclosed | Nutone 26750<br>Nutone 26761                         | 42     |
| 82513          | 1/100     | 115   | 1550 | 0.70      | CCW      | 1/4 x 1 1/4           | 2 1/16                  | Sleeve   | Totally Enclosed | Nutone 23388<br>Nutone 23405                         | 41 42  |
| 82514          | 1/100     | 115   | 1550 | 0.70      | CW       | 1/4 x 1 1/8           | 2 1/16                  | Sleeve   | Totally Enclosed |                                                      | 42     |
| 82635          | 1/91      | 115   | 1550 | 0.45      | CCW      | 5/16 x 1 1/8          | 2.09                    | Sleeve   | Totally Enclosed | Nutone 54123<br>Nutone 54257                         | 42     |
| 80600          | 1/80      | 115   | 3000 | 0.65      | CW       | 1/4 x 2 1/8           | 2 1/2                   | Sleeve   | Open             | Emerson 9613<br>Nutone 16553                         | 41     |
| 82637          | 1/75      | 115   | 1550 | 0.63      | CCW      | 1/4 x 1 1/8           | 2                       | Sleeve   | Totally Enclosed | Nutone 53581                                         | 42     |
| 82510          | 1/70      | 115   | 1320 | 0.85      | CW       | 1/4 x 1 1/8           | 2 1/16                  | Sleeve   | Open             | Nutone C65073                                        | 41 482 |
| 82694K         | 1/70      | 115   | 3000 | 1.04      | CCW      | 1/4 x 1               | 2 3/8                   | Sleeve   | Totally Enclosed | Emerson 2694                                         | 42     |
| 82733          | 1/50-1/80 | 115   | 3000 | 1.00-0.60 | CW       | 1/4 x 1 1/4           | 2.59                    | Sleeve   | Totally Enclosed | Nutone C26733                                        | 42     |
| 82621          | 1/10      | 115   | 1550 | 3.80      | CCW      | 5/16 x 1 1/2          | 3 5/8                   | Ball     | Open             | Nutone 67176<br>Nutone 32997                         |        |
| 40933          | 1/50      | 120   | 1550 | 1.20      | CCW      | 1/4 x 1               | 1 7/8                   | Sleeve   | Open             | Nutone 86933<br>Nutone 86933000<br>UniversalJA2B104N | 482    |

#### Notes:

41. 1 1/8" Hubs

42. Includes cord and plug

482. Two prong plug and cord attached

## C-Frame Motors



### Features

- Shaded pole
- Sleeve bearings
- Stud mounting
- Rotation is determined by viewing the shaft end

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Hertz | Replaces                                                                                                   | Notes             |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|-------|------------------------------------------------------------------------------------------------------------|-------------------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |       |                                                                                                            |                   |
| 65100          | 1/2              | 120   | 3000 | 0.60 | 1      | CCW      | 7/32 x 1 5/8          | 60    | Gemline EM550 Nutone C65878<br>Robertshaw VFM100                                                           | 105               |
| 65112          | 1/2              | 120   | 3000 | 0.76 | 1      | CCW      | 7/32 x 1 3/4          | 60    |                                                                                                            | 104 105           |
| 82423K         | 1/2              | 120   | 3000 | 0.60 | 1      | CW       | 7/32 x 1 1/2          | 60    | Nutone 89423-000                                                                                           | 106               |
| 65249          | 1/2              | 120   | 3000 | 0.45 | 1      | CW       | 1/8 x 2 1/2           | 60    | Gemline EM241 Gemline EM242<br>Gemline EM244 Gemline EM245<br>Gemline EM247 Gemline EM248<br>Gemline EM249 |                   |
| 65514          | 5/8              | 120   | 3000 | 0.44 | 1      | CW       | 3/16 x 3/4            | 60    | Delfield 1175-10-4439                                                                                      |                   |
| 65691          | 5/8              | 120   | 3000 | 0.64 | 1      | CW       | 7/32 x 1 3/8          | 60    | BOHN 5007S Bohn 5018S<br>BOHN 5036F Gemline EM691<br>UPPCO 85                                              | 354<br>472<br>474 |
| 65692          | 5/8              | 240   | 3000 | 0.32 | 1      | CW       | 0.181 x 1 3/8         | 60    | BOHN 5007T Bohn 5018T<br>BOHN 5036G Gemline EM692<br>UPPCO 86                                              | 354<br>472<br>474 |
| 65709          | 5/8              | 120   | 3000 | 0.88 | 1      | CCW      | 7/32 x 2 3/8          | 60    | Nutone C53709                                                                                              | 108 485           |
| 67154          | 3/4              | 120   | 3000 | 0.55 | 1      | CCW      | 1/4 x 5/8             | 60    | Russell Coil 102249-005                                                                                    |                   |
| 65894K         | 3/4              | 120   | 3000 | 0.90 | 1      | CCW      | 7/32 x 2 3/8          | 60    | Nutone 82229 Nutone K5894                                                                                  | 106               |
| 65101          | 7/8              | 120   | 3000 | 0.86 | 2      | CW       | 7/32 x 1 5/16         | 60    | Gemline EM551 Nutone C52367<br>Robertshaw VFM101                                                           | 110               |
| 65272          | 1                | 120   | 3000 | 1.00 | 1      | CCW      | 7/32 x 1 1/2          | 60    | Nutone C23272                                                                                              | 485               |

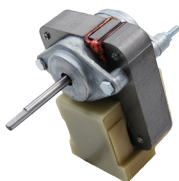
#### Notes:

104. Same as 65100 except mounting screws are on the shaft end  
105. Includes A65100FB impeller  
106. Assembled with bracket as illustrated

108. Has a one shot overload  
110. Includes two speed plug  
354. Impedance protected

472. Includes stand offs for other Bohn applications  
474. Used in Bohn commercial evaporators  
485. Includes two prong plug

## Direct C-Frame Replacements For Broan



### Features

- Shaded Pole
- Sleeve Bearing
- Automatic Overload
- Rotation is determined by viewing the shaft end

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Hertz | Replaces                                        | Notes |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|-------|-------------------------------------------------|-------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |       |                                                 |       |
| 65216          | 5/8              | 120   | 3000 | 0.51 | 1      | CCW      | 0.181 x 1 1/2         | 60    | Broan 99080090 Broan 99080216                   |       |
| 65094          | 7/8              | 120   | 3000 | 0.75 | 1      | CCW      | 7/32 x 1 3/8          | 60    | Broan 99080094 Broan 99080099<br>Broan 99080166 |       |
| 65159          | 7/8              | 120   | 3000 | 0.71 | 1      | CCW      | 1/4 x 2 3/4           | 60    | Broan 99080159                                  | 491   |
| 65176          | 1 1/8            | 120   | 3000 | 1.00 | 1      | CW       | 7/32 x 1 1/2          | 60    | Broan 99080176                                  |       |

#### Notes:

491. Has a flattened shaft



## Broan Direct Replacement



| Item ID                          | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Replaces       |
|----------------------------------|------------------|-------|------|------|--------|----------|-----------------------|------|----------|----------------|
| <b>Packard - Sleeve Bearings</b> |                  |       |      |      |        |          |                       |      |          |                |
| 65366                            | 5/8              | 120   | 3000 | 0.50 | 2      | CCW      | 3/16 x 1 1/4          | SP   | Sleeve   | Broan 99080365 |

## C -Frame Utility Fan Motors And Kits



65670



65690



65672  
65673



65675



65686



65687  
65688

### Applications

- Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

### Features

- Shaded pole
- 60 Hertz
- Open enclosure
- Mechanically reversible
- Rotation is determined by viewing the shaft end

| Item ID                          | Stack Size (In.) | Volts   | RPM       | Amps      | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Replaces                                                        | Notes |
|----------------------------------|------------------|---------|-----------|-----------|--------|----------|-----------------------|------|----------|-----------------------------------------------------------------|-------|
| <b>Packard - Sleeve Bearings</b> |                  |         |           |           |        |          |                       |      |          |                                                                 |       |
| 65670                            | 5/8              | 115     | 3000      | 0.50      | 1      | CW       | 3/16 x 1 5/16         | SP   | Sleeve   | Acme 600 Acme 700<br>Acme 710 Gemline EM670<br>Robertshaw 14001 |       |
| 65690                            | 5/8              | 120     | 3000      | 0.50      | 1      | CW       | 3/16 x 1 1/2          | SP   | Sleeve   | Gemline EM690                                                   | 98    |
| 65672                            | 5/8              | 240     | 3000      | 0.18      | 1      | CW       | 3/16 x 1 5/16         | SP   | Sleeve   | Acme 602 Acme 702<br>Gemline EM672<br>Robertshaw 14005          |       |
| 65673                            | 5/8              | 115     | 3000/1550 | 0.60/0.40 | 2      | CW       | 3/16 x 1 3/8          | SP   | Sleeve   | Gemline EM673<br>Robertshaw 14007                               |       |
| 65675                            | 1                | 120/240 | 3000      | 0.80/0.40 | 1      | CW       | 3/16 x 2 3/8          | SP   | Sleeve   | Acme 7502<br>Gemline EM675                                      |       |
| <b>Packard - Ball Bearings</b>   |                  |         |           |           |        |          |                       |      |          |                                                                 |       |
| 65686                            | 5/8              | 120     | 3000      | 0.41      | 1      | CW       | 3/16 x 1 1/4          | SP   | Ball     | Acme BB700<br>Gemline EM686                                     |       |
| 65687                            | 1 1/8            | 120/240 | 3000      | 0.64/0.32 | 1      | CW       | 3/16 x 2 3/8          | SP   | Ball     | Acme BB7502<br>Gemline EM687                                    |       |
| 65688                            | 1 1/8            | 120     | 3000      | 0.43      | 1      | CW       | 3/16 x 1 5/8          | SP   | Ball     | Acme BB750<br>Gemline EM688                                     |       |

### Notes:

98. Same as 65670 except studs exit on the shaft end. Includes 5.5" fan blade only

## C-Frame Utility Fan Motor

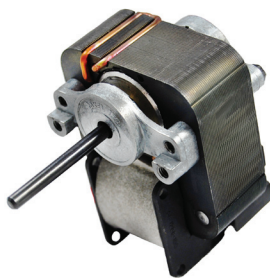


### Features

- 60 Hertz
- Rotation is determined by viewing the shaft end
- Has extended studs at 1 7/8" center, two 5/32" mounting holes on each side of stack on 1 7/8" center and includes two prong plug
- Mechanically reversible

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |      |          |           |
| 60100          | 5/8              | 115   | 2750 | 0.71 | 1      | CW       | 3/16 x 1 1/8          | SP   | Sleeve   | Open      |

## C-Frame Utility Fan Motors



### Applications

Evaporators, refrigerators, range hoods, ventilators, exhaust fans and unit heaters

### Features

- Open enclosure
- 60 Hertz
- Mechanically reversible
- Rotation is determined by viewing the shaft end

| Item ID        | Stack Size (In.) | Volts   | RPM       | Amps      | Speeds | Rotation | Shaft Dimension (In.)   | Type | Bearings | Replaces                                      | Notes |
|----------------|------------------|---------|-----------|-----------|--------|----------|-------------------------|------|----------|-----------------------------------------------|-------|
| <b>Packard</b> |                  |         |           |           |        |          |                         |      |          |                                               |       |
| 65210          | 3/8              | 120     | 3000      | 0.31      | 1      | CW       | 0.181 x 1               | SP   | Sleeve   |                                               |       |
| 65426          | 3/8              | 240     | 3000      | 0.17      | 1      | CW       | 0.181 x 1               | SP   | Sleeve   |                                               |       |
| 65455          | 1/2              | 120     | 3000      | 0.35      | 1      | CW       | 7/32 x 1                | SP   | Sleeve   | Kitchen Aid 240332-1<br>Kitchen Aid 4162472   |       |
| 65533          | 1/2              | 120     | 3000      | 0.22      | 1      | CW       | Splined (3/16 Diameter) | SP   | Sleeve   | Choice Vending 863243                         |       |
| 65678          | 1/2              | 120     | 3000      | 0.55      | 1      | CW       | 3/16 x 1 1/2            | SP   | Sleeve   | Gemline EM678<br>Robertshaw 14015             |       |
| 65693          | 1/2              | 120     | 3000      | 0.32      | 1      | CW       | 0.181 x 1               | SP   | Sleeve   |                                               |       |
| 65280          | 1/2              | 240     | 3000      | 0.32      | 1      | CW       | 3/16 x 1                | SP   | Sleeve   |                                               |       |
| 65671          | 5/8              | 115     | 3000      | 0.50      | 1      | CW       | 3/16 x 1 1/4            | SP   | Sleeve   | Gemline EM671<br>Robertshaw 14003             |       |
| 65679          | 5/8              | 120     | 3000      | 0.50      | 1      | CW       | 7/32 x 1 1/2            | SP   | Sleeve   | Gemline EM679<br>Robertshaw 14017             |       |
| 65681          | 5/8              | 120     | 3000/1550 | 0.55/0.34 | 2      | CW       | 3/16 x 1 3/8            | SP   | Sleeve   | Gemline EM681<br>Robertshaw 14021             |       |
| 65694          | 5/8              | 120     | 3000      | 0.45      | 1      | CW       | 0.181 x 1               | SP   | Sleeve   |                                               |       |
| 65467          | 7/8              | 120     | 3000/1550 | 1.00/0.60 | 2      | CW       | 7/32 x 2 3/8            | SP   | Sleeve   |                                               | 103   |
| 65427          | 7/8              | 220-240 | 3000      | 0.37      | 1      | CW       | 3/16 x 1                | SP   | Sleeve   |                                               |       |
| 65283          | 7/8              | 120     | 3000/1550 | 0.76      | 2      | CW       | 3/16 x 1                | SP   | Sleeve   |                                               |       |
| 65685          | 1                | 120     | 3000/1550 | 0.81      | 2      | CW       | 3/16 x 1 5/8            | SP   | Sleeve   | GE WB26X45<br>Gemline EM685                   |       |
| 65682          | 1                | 120     | 3000/1500 | 0.60/0.36 | 2      | CW       | 3/16 x 1 1/2            | SP   | Sleeve   | Gemline EM682                                 |       |
| 65683          | 1                | 240     | 3000      | 0.25      | 1      | CW       | 3/16 x 1 1/4            | SP   | Sleeve   | Gemline EM683                                 |       |
| 65680          | 1 1/8            | 120     | 3000      | 0.90      | 1      | CW       | 3/16 x 1 1/2            | SP   | Sleeve   | Acme 750<br>Gemline EM680<br>Robertshaw 14019 |       |
| 65468          | 1 3/8            | 120     | 3000/1550 | 1.25      | 2      | CW       | 7/32 x 2 3/8            | SP   | Sleeve   |                                               |       |
| 65428          | 1 1/2            | 220-240 | 3000      | 0.55      | 1      | CW       | 1/4 x 1                 | SP   | Sleeve   |                                               |       |

#### Notes:

99. Replaces Dyna Vent and Gaffers and Sattler

103. 2 speed plug for Nutone applications

110. Includes two speed plug

## Plastic Blower Wheels And Impellers



A65900



A65100FB  
A65216FB  
A64031FB

| Item ID        | Bore (In.) | Diameter (In.) | Width (In.) | Bore    | Replaces         |
|----------------|------------|----------------|-------------|---------|------------------|
| <b>Packard</b> |            |                |             |         |                  |
| A65900         | 1/4        | 5 3/4          | 2           | D Shape | Nutone 59000A000 |
| A65100FB       | 7/32       | 4 9/16         | —           | D Shape | Nutone 68920     |
| A65216FB       | 3/16       | 4 1/2          | —           | D Shape |                  |
| A64031FB       | 0.181      | 4 1/2          | —           | Round   |                  |

## Amana



| Replaces  |             |           |
|-----------|-------------|-----------|
| 098862-1  | D68862-1    | D98862-1  |
| 7021-9259 | 7021-9574   | 7021-9924 |
| Item ID   | 82862       |           |
| H.P.      | 1/35        |           |
| Volts     | 208-240     |           |
| RPM       | 3000        |           |
| Amps      | 0.50-0.59   |           |
| Speeds    | 1           |           |
| Type      | Shaded Pole |           |
| Bearings  | Sleeve      |           |
| Enclosure | Open        |           |
| Hertz     | 60          |           |
| Overload  | Automatic   |           |

## Amana



| Replaces  |             |
|-----------|-------------|
| 20190601  | 7021-9625   |
| Item ID   | A180        |
| H.P.      | 1/30        |
| Volts     | 115         |
| RPM       | 3400        |
| Amps      | 1.80        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Amana



| Replaces  |           |
|-----------|-----------|
| D98686-7  | 7062-3151 |
| Item ID   | A158      |
| H.P.      | 1/25      |
| Volts     | 115       |
| RPM       | 3450      |
| Amps      | 0.70      |
| Speeds    | 1         |
| Type      | PSC       |
| Bearings  | Sleeve    |
| Enclosure | Open      |
| Hertz     | 60        |
| Overload  | Automatic |

## Armstrong

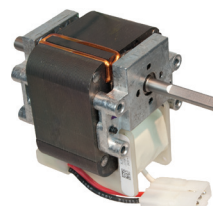


| Replaces  |             |
|-----------|-------------|
| 40404-003 | 117521-00   |
| Item ID   | 66404       |
| Volts     | 115         |
| RPM       | 3200        |
| Amps      | 1.20        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Carrier



| Replaces  |                |
|-----------|----------------|
| HC24HE230 | J238-150-15103 |
| Item ID   | 65230          |
| Watts     | 28             |
| Volts     | 208-230        |
| RPM       | 3000           |
| Amps      | 0.80           |
| Speeds    | 1              |
| Type      | Shaded Pole    |
| Bearings  | Ball           |
| Enclosure | open           |
| Hertz     | 60             |
| Overload  | Automatic      |



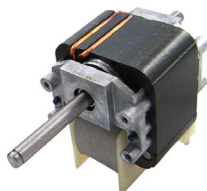
BW11046  
Blower Wheel  
See Page 116



## Carrier

| Replaces  |             |
|-----------|-------------|
| HC21ZE118 |             |
| Item ID   | 65118       |
| H.P.      | 1/30        |
| Volts     | 115         |
| RPM       | 2800/2500   |
| Amps      | 1.80/0.60   |
| Speeds    | 2           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Carrier



| Replaces         |             |
|------------------|-------------|
| HC21ZE123A       |             |
| Item ID          | 65123       |
| Stack Size (In.) | 1.50        |
| Volts            | 115         |
| RPM              | 3000        |
| Amps             | 1.50        |
| Rotation         | CCWLE       |
| Speeds           | 1           |
| Type             | Shaded Pole |
| Bearings         | Ball        |
| Hertz            | 60          |
| Overload         | Automatic   |



A65569BW  
4" x 1.5" CCW  
5/16" Bore  
Blower Wheel  
Replace Carrier LA11AA005



## Carrier

| Replaces                |                  |
|-------------------------|------------------|
| HC24HE230               |                  |
| Item ID                 | 65570            |
| H.P.                    | 25 MHP           |
| Volts                   | 230              |
| RPM                     | 3000             |
| Amps                    | 0.80             |
| Speeds                  | 1                |
| Shaft Dimension (In.)   | 1 x 5/16 x 1 7/8 |
| Length Less Shaft (In.) | 3 5/8            |
| Type                    | Shaded Pole      |
| Bearings                | Ball             |
| Hertz                   | 60               |
| Overload                | Automatic        |

## Carrier



**! Don't Forget**  
A65569BW  
4" x 1.5" CCW  
5/16" Bore  
Blower Wheel  
Replace Carrier LA11AA005

### Replaces

HC21ZE117B HC660-005

| Item ID                 | 65569            |
|-------------------------|------------------|
| H.P.                    | 25 MHP           |
| Volts                   | 115              |
| RPM                     | 3300             |
| Amps                    | 1.80             |
| Speeds                  | 1                |
| Shaft Dimension (In.)   | 1 x 5/16 x 1 7/8 |
| Length Less Shaft (In.) | 3 3/8            |
| Type                    | Shaded Pole      |
| Bearings                | Ball             |
| Hertz                   | 60               |
| Overload                | Automatic        |

## Carrier



**NEW**

### Replaces

48GS400106 48GS400649

| Item ID   | 66649   |
|-----------|---------|
| H.P.      | 1/6     |
| Volts     | 208-230 |
| RPM       | 3450    |
| Amps      | 0.5     |
| Speeds    | 1       |
| Rotation  | CCW     |
| Type      | PSC     |
| Bearings  | Ball    |
| Enclosure | Open    |
| Hertz     | 60      |

## Carrier



**NEW**

### Replaces

50DK406815 HC30GB232

| Item ID   | 66815   |
|-----------|---------|
| H.P.      | 1/16    |
| Volts     | 208-230 |
| RPM       | 3450    |
| Amps      | 0.48    |
| Speeds    | 1       |
| Rotation  | CCW     |
| Type      | PSC     |
| Bearings  | Ball    |
| Enclosure | Open    |
| Hertz     | 60      |

## Carrier



### Replaces

8251510431 JA1M086 JA1M147  
JA1M147N P251-2916

| Item ID                 | 82121        |
|-------------------------|--------------|
| H.P.                    | 1/33         |
| Volts                   | 115          |
| RPM                     | 3000         |
| Amps                    | 1.10         |
| Speeds                  | 1            |
| Shaft Dimension (In.)   | 5/16 x 2 1/8 |
| Length Less Shaft (In.) | 3 3/8        |
| Type                    | Shaded Pole  |
| Bearings                | Sleeve       |
| Enclosure               | Open         |
| Hertz                   | 60           |
| Overload                | Automatic    |

## Carrier



### Replaces

HC24AU725B JA1P053 P251-2307

| Item ID                 | 82180        |
|-------------------------|--------------|
| H.P.                    | 1/20         |
| Volts                   | 115          |
| RPM                     | 3300         |
| Amps                    | 1.54         |
| Speeds                  | 1            |
| Shaft Dimension (In.)   | 5/16 x 2 1/8 |
| Length Less Shaft (In.) | 3 5/8        |
| Type                    | Shaded Pole  |
| Bearings                | Sleeve       |
| Enclosure               | Open         |
| Hertz                   | 60           |
| Overload                | Automatic    |

## Carrier



### Replaces

HC24AU600 HC24AU600B HC24AO701

| Item ID                 | 82520       |
|-------------------------|-------------|
| H.P.                    | 1/20        |
| Volts                   | 115/230     |
| RPM                     | 3000        |
| Amps                    | 2.00/1.00   |
| Speeds                  | 1           |
| Rotation                | CW          |
| Shaft Dimension (In.)   | 1/4 x 2 1/2 |
| Length Less Shaft (In.) | 5 5/8       |
| Type                    | Shaded Pole |
| Bearings                | Ball        |
| Enclosure               | Open        |
| Hertz                   | 60          |
| Overload                | Automatic   |

Notes:

56. Includes 5/16" Shaft Adapter

## Carrier



### Replaces

HC24AU700 HC24AU710

| Item ID                 | 82521       |
|-------------------------|-------------|
| H.P.                    | 1/15        |
| Volts                   | 115/230     |
| RPM                     | 3000        |
| Amps                    | 2.00/1.00   |
| Speeds                  | 1           |
| Rotation                | CCW         |
| Shaft Dimension (In.)   | 1/4 x 2 1/2 |
| Length Less Shaft (In.) | 5 5/8       |
| Type                    | Shaded Pole |
| Bearings                | Ball        |
| Enclosure               | Open        |
| Hertz                   | 60          |
| Overload                | Automatic   |

Notes:

56. Includes 5/16" Shaft Adapter

## Coleman Evcon



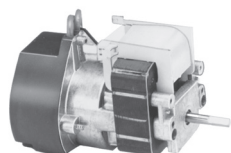
**NEW**

### Replaces

373-19801-820 373-19801-821

| Item ID  | 65475       |
|----------|-------------|
| H.P.     | 1/150       |
| Volts    | 115         |
| RPM      | 3315        |
| Amps     | 0.4         |
| Speeds   | 1           |
| Rotation | CCWSE       |
| Type     | Shaded Pole |
| Bearings | Ball        |
| Hertz    | 60          |
| Overload | Automatic   |





Notes: C-Frame motor with centrifugal switch

## Coleman Evcon

### Replaces

7990-317P 7102-2187

| Item ID               | K629        |
|-----------------------|-------------|
| Stack Size (In.)      | 1           |
| H.P.                  | 1/85        |
| Volts                 | 115         |
| RPM                   | 2950        |
| Amps                  | 0.67        |
| Speeds                | 1           |
| Rotation              | CW          |
| Shaft Dimension (In.) | 1/4 x 1 1/8 |
| Type                  | Shaded Pole |
| Bearings              | Sleeve      |
| Enclosure             | Open        |
| Hertz                 | 60          |
| Overload              | Automatic   |

## Dunkirk

### Replaces

433-00-510

| Item ID   | 82052       |
|-----------|-------------|
| H.P.      | 1/50        |
| Volts     | 115         |
| RPM       | 3000        |
| Amps      | 1.00        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

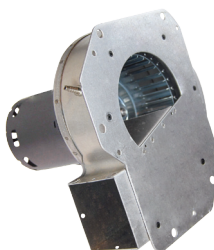


## Fedders

### Replaces

031-7059

| Item ID   | 82618       |
|-----------|-------------|
| H.P.      | 1/35        |
| Volts     | 115/230     |
| RPM       | 3000        |
| Amps      | 0.90/0.45   |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



## Goodman

### Replaces

11009001 11009002 11009003

| Item ID   | 66003       |
|-----------|-------------|
| Volts     | 115         |
| RPM       | 3250        |
| Amps      | 0.92        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Goodman

### Replaces

5KSB46GF0003S B48330001

| Item ID   | 48332       |
|-----------|-------------|
| Volts     | 115         |
| RPM       | 3200/2800   |
| Amps      | 1.80/1.10   |
| Speeds    | 2           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |
| Includes  | Rubber Boot |



## Goodman

### Replaces

5KSB46GF0001S B4833000

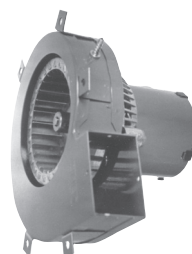
| Item ID   | 48331       |
|-----------|-------------|
| Volts     | 115         |
| RPM       | 3200        |
| Amps      | 1.80        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |
| Includes  | Rubber Boot |

## Goodman

### Replaces

B1859000 B1859000S

| Item ID   | 82483            |
|-----------|------------------|
| H.P.      | 1/50             |
| Volts     | 115              |
| RPM       | 3000             |
| Amps      | 1.00             |
| Speeds    | 1                |
| Type      | Shaded Pole      |
| Bearings  | Ball             |
| Enclosure | Totally Enclosed |
| Hertz     | 60               |
| Overload  | Automatic        |



## Goodman

### Replaces

B1859000 74-70-21964-03-01

| Item ID   | A079             |
|-----------|------------------|
| H.P.      | 1/50             |
| Volts     | 115              |
| RPM       | 3000             |
| Amps      | 1.10             |
| Speeds    | 1                |
| Type      | Shaded Pole      |
| Bearings  | Sleeve           |
| Enclosure | Totally Enclosed |
| Hertz     | 60               |
| Overload  | Automatic        |

## Goodman



### Replaces

B2833001S B2833001 7021-9000  
7021-9087 FB-RFB140

### Item ID A140

H.P. 1/50  
Volts 115  
RPM 3400  
Amps 1.40  
Speeds 1  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic

## Goodman



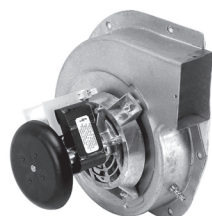
### Replaces

B295900 7021-8656

### Item ID A162

H.P. 1/50  
Volts 208-230  
RPM 3000  
Amps 0.50  
Speeds 1  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic

## Goodman



### Replaces

B4059000 7002-3036

### Item ID A182

H.P. 1/35  
Volts 115  
RPM 3125  
Amps 1.20  
Speeds 1  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic



### Replaces

B4059000 J238-112-11195 7002-3036  
J238-11195

### Item ID 66590

H.P. 1/30  
Volts 115  
RPM 3000  
Amps 1.50  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic

## Goodman



### Replaces

B1859005 J238-11128

### Item ID 66005

H.P. 1/30  
Volts 115  
RPM 3000  
Amps 1.60  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic



### Replaces

0131M00002P 0131M00002S  
119276-00

### Item ID 66002

H.P. 1/35  
Volts 115  
RPM 3000  
Amps 1.90  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic  
Includes Gasket

## Heil-Quaker



### Replaces

5C085 610672 HQ610672

### Item ID A064

H.P. 1/55  
Volts 115  
RPM 3150  
Amps 0.70  
Speeds 1  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic



## ICP

### Replaces

1012002 1013388A  
1014338

### Item ID 66338

H.P. 50 MHP  
Volts 115  
RPM 3000  
Amps 2.40  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Totally Enclosed  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1010324 1010238P  
1013833

### Item ID 66833

H.P. 28 MHP  
Volts 115  
RPM 3000  
Amps 1.60  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



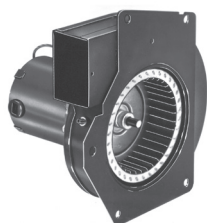
### Replaces

1006168

### Item ID 82672

H.P. 1/60  
Volts 115  
RPM 3300  
Amps 0.90  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1054268P 7021-7617 7021-9237  
HQ1054268FA

### Item ID A148

H.P. 1/50  
Volts 208-230  
RPM 3000  
Amps 0.50  
Speeds 1  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1110008 1085571 1085571P  
7021-10048 7021-10580

### Item ID 66254

H.P. 1/50  
Volts 230  
RPM 3000  
Amps 0.30  
Speeds 1  
Type PSC  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1010975 1010975P

### Item ID A172

H.P. 1/35  
Volts 115  
RPM 3000  
Amps 1.60  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1054268P

### Item ID 82148

H.P. 1/30  
Volts 208-230  
RPM 3000  
Amps 0.50  
Type Shaded Pole  
Bearings Sleeve  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



### Replaces

1000814 1001371 1001609 1002543  
1007360 1011350 1150474 HQ1011350

### Item ID 66350

H.P. 1/25  
Volts 115  
RPM 3350  
Amps 0.92  
Speeds 1  
Type PSC  
Bearings Ball  
Enclosure Open  
Overload Automatic  
Hertz 60  
Includes 5MFD Capacitor

## ICP



### Replaces

1010312 1010526 1010928  
1011095 1011097 1011409  
1164280

### Item ID A170

H.P. 1/25  
Volts 115  
RPM 3400  
Amps 2.30  
Speeds 1  
Type Shaded Pole  
Bearings Ball  
Enclosure Open  
Hertz 60  
Overload Automatic

## ICP



| Replaces  |           |         |
|-----------|-----------|---------|
| 1010491   | 1010527P  | 1011096 |
| 1011410   |           |         |
| Item ID   | A171      |         |
| H.P.      | 1/25      |         |
| Volts     | 115       |         |
| RPM       | 3450      |         |
| Amps      | 0.70      |         |
| Speeds    | 1         |         |
| Type      | PSC       |         |
| Bearings  | Ball      |         |
| Enclosure | Open      |         |
| Hertz     | 60        |         |
| Overload  | Automatic |         |

## ICP



| Replaces  |             |           |
|-----------|-------------|-----------|
| 1010238P  | 1010324     | 1708-607  |
| 1708-607P | R7-RFB134   | 7021-7700 |
| 7021-8735 | 7021-8736   | 7021-9335 |
| Item ID   | A134        |           |
| H.P.      | 1/25        |           |
| Volts     | 115         |           |
| RPM       | 3060        |           |
| Amps      | 1.50        |           |
| Speeds    | 1           |           |
| Type      | Shaded Pole |           |
| Bearings  | Sleeve      |           |
| Enclosure | Open        |           |
| Hertz     | 60          |           |
| Overload  | Automatic   |           |

## ICP



| Replaces  |           |  |
|-----------|-----------|--|
| 1149097   | 1008416P  |  |
| Item ID   | A307      |  |
| H.P.      | 1/24      |  |
| Volts     | 115       |  |
| RPM       | 3450      |  |
| Amps      | 0.70      |  |
| Speeds    | 1         |  |
| Type      | PSC       |  |
| Bearings  | Sleeve    |  |
| Enclosure | Open      |  |
| Hertz     | 60        |  |
| Overload  | Automatic |  |

## ICP



| Replaces    |           |  |
|-------------|-----------|--|
| 1011350     | HQ1011350 |  |
| HQ1011350FA | R7-RFB350 |  |
| Item ID     | A173      |  |
| H.P.        | 1/18      |  |
| Volts       | 115       |  |
| RPM         | 3450      |  |
| Amps        | 0.80      |  |
| Speeds      | 1         |  |
| Type        | PSC       |  |
| Enclosure   | Open      |  |
| Bearings    | Ball      |  |
| Hertz       | 60        |  |
| Overload    | Automatic |  |

## Johnson



| Replaces  |             |  |
|-----------|-------------|--|
| 8973C     |             |  |
| Item ID   | 80280       |  |
| H.P.      | 1/60        |  |
| Volts     | 230         |  |
| RPM       | 3000        |  |
| Amps      | 0.55        |  |
| Speeds    | 1           |  |
| Type      | Shaded Pole |  |
| Bearings  | Ball        |  |
| Enclosure | Open        |  |
| Hertz     | 60          |  |
| Overload  | Automatic   |  |

## Lennox



| Replaces  |             |       |
|-----------|-------------|-------|
| 31L5501   | 101202-01   | 24W95 |
| 7002-2975 | 102359-01   |       |
| Item ID   | 66501       |       |
| H.P.      | 1/30        |       |
| Volts     | 115         |       |
| RPM       | 3000        |       |
| Amps      | 1.20        |       |
| Speeds    | 1           |       |
| Type      | Shaded Pole |       |
| Bearings  | Ball        |       |
| Enclosure | Open        |       |
| Hertz     | 60          |       |
| Overload  | Automatic   |       |

## Lennox



| Replaces  |               |  |
|-----------|---------------|--|
| 88K8401   | J238-087-8171 |  |
| Item ID   | 66401         |  |
| H.P.      | 1/60          |  |
| Volts     | 120           |  |
| RPM       | 2800          |  |
| Amps      | 1.30          |  |
| Speeds    | 1             |  |
| Type      | Shaded Pole   |  |
| Bearings  | Ball          |  |
| Enclosure | Open          |  |
| Hertz     | 60            |  |
| Overload  | Automatic     |  |

## Lennox



| Replaces  |             |  |
|-----------|-------------|--|
| 47H12     | LB-82590CA  |  |
| Item ID   | 82590       |  |
| Volts     | 115         |  |
| RPM       | 3000        |  |
| Amps      | 1.20        |  |
| Speeds    | 1           |  |
| Type      | Shaded Pole |  |
| Bearings  | Ball        |  |
| Enclosure | Open        |  |
| Hertz     | 60          |  |
| Overload  | Automatic   |  |



## Lennox



| Replaces  |             |           |
|-----------|-------------|-----------|
| 67K0401   | 67K0401P    | 7021-9450 |
| FB-RFB547 |             |           |
| Item ID   | A163        |           |
| H.P.      | 1/20        |           |
| Volts     | 115         |           |
| RPM       | 3400        |           |
| Amps      | 1.80        |           |
| Speeds    | 1           |           |
| Type      | Shaded Pole |           |
| Bearings  | Ball        |           |
| Enclosure | Open        |           |
| Hertz     | 60          |           |
| Overload  | Automatic   |           |

## Lennox



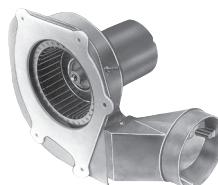
| Replaces   |             |            |
|------------|-------------|------------|
| 45037-1P   | 46087-001   | 45037-001  |
| 7021-10602 | 7021-11106  | 7021-11174 |
| Item ID    | A202        |            |
| H.P.       | 1/30        |            |
| Volts      | 115         |            |
| RPM        | 3400        |            |
| Amps       | 1.80        |            |
| Speeds     | 1           |            |
| Type       | Shaded Pole |            |
| Bearings   | Ball        |            |
| Enclosure  | Open        |            |
| Hertz      | 60          |            |
| Overload   | Automatic   |            |

## Lennox



| Replaces  |             |  |
|-----------|-------------|--|
| 313L5501  | 7002-2975   |  |
| Item ID   | A200        |  |
| H.P.      | 1/30        |  |
| Volts     | 115         |  |
| RPM       | 3000        |  |
| Amps      | 1.35        |  |
| Speeds    | 1           |  |
| Type      | Shaded Pole |  |
| Bearings  | Sleeve      |  |
| Enclosure | Open        |  |
| Hertz     | 60          |  |
| Overload  | Automatic   |  |

## Lennox



| Replaces   |             |  |
|------------|-------------|--|
| 7021-10046 |             |  |
| Item ID    | A155        |  |
| H.P.       | 1/30        |  |
| Volts      | 115         |  |
| RPM        | 3000        |  |
| Amps       | 1.40        |  |
| Speeds     | 1           |  |
| Type       | Shaded Pole |  |
| Bearings   | Ball        |  |
| Enclosure  | Open        |  |
| Hertz      | 60          |  |
| Overload   | Automatic   |  |

## Miller



| Replaces  |             |  |
|-----------|-------------|--|
| 303875000 |             |  |
| Item ID   | 80270       |  |
| H.P.      | 1/50        |  |
| Volts     | 115/230     |  |
| RPM       | 3000        |  |
| Amps      | 0.90/0.45   |  |
| Speeds    | 1           |  |
| Type      | Shaded Pole |  |
| Bearings  | Ball        |  |
| Enclosure | Open        |  |
| Hertz     | 60          |  |
| Overload  | Automatic   |  |

## Rheem



| Replaces    |             |         |
|-------------|-------------|---------|
| 70-21496-01 | 7021-5239   | JAIM102 |
| Item ID     | A090        |         |
| H.P.        | 1/50        |         |
| Volts       | 115         |         |
| RPM         | 3000        |         |
| Amps        | 1.10        |         |
| Speeds      | 1           |         |
| Type        | Shaded Pole |         |
| Bearings    | Sleeve      |         |
| Enclosure   | Open        |         |
| Hertz       | 60          |         |
| Overload    | Automatic   |         |

## Rheem



| Replaces      |             |             |
|---------------|-------------|-------------|
| 70-1010187-81 | 70-21496-83 | 70-24157-03 |
| 7021-11559    |             |             |
| Item ID       | 66781       |             |
| H.P.          | 1/50        |             |
| Volts         | 115         |             |
| RPM           | 3000        |             |
| Amps          | 0.60        |             |
| Speeds        | 1           |             |
| Type          | PSC         |             |
| Bearings      | Ball        |             |
| Enclosure     | Open        |             |
| Hertz         | 60          |             |
| Overload      | Automatic   |             |

## Rheem



| Replaces    |             |             |
|-------------|-------------|-------------|
| 117104-01   | 117847-07   | 70-22838-82 |
| 70-24157-03 |             |             |
| Item ID     | 66847       |             |
| H.P.        | 1/30        |             |
| Volts       | 120         |             |
| RPM         | 3000        |             |
| Amps        | 1.70        |             |
| Speeds      | 1           |             |
| Type        | Shaded Pole |             |
| Bearings    | Ball        |             |
| Enclosure   | Open        |             |
| Hertz       | 60          |             |
| Overload    | Automatic   |             |



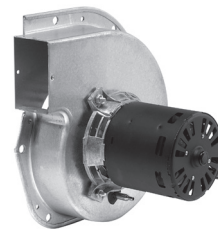
**NEW**

## Rheem

### Replaces

70-24157-03

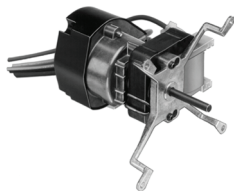
| Item ID   | 82641       |
|-----------|-------------|
| H.P.      | 1/25        |
| Volts     | 208-230     |
| RPM       | 3200        |
| Amps      | 0.62        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



### Replaces

70-23641-81

| Item ID   | A241        |
|-----------|-------------|
| H.P.      | 1/25        |
| Volts     | 208-230     |
| RPM       | 3200        |
| Amps      | 0.62        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



Notes: C-Frame motor with centrifugal switch

## Rheem

### Replaces

51-21964-01 51-21964-11

| Item ID               | K628        |
|-----------------------|-------------|
| Stack Size (In.)      | 3/4         |
| Volts                 | 208-230     |
| RPM                   | 3000        |
| Amps                  | 0.25        |
| Speeds                | 1           |
| Rotation              | CW          |
| Shaft Dimension (In.) | 1/4 x 1 1/2 |
| Type                  | Shaded Pole |
| Bearings              | Sleeve      |
| Enclosure             | Open        |
| Hertz                 | 60          |
| Overload              | Automatic   |



Notes: C-Frame motor with centrifugal switch. This Kit contains one motor and three fan blades each with 10 blades and 1/4" diameter bore, in diameters of 3", 3 1/2", and 4"

### Replaces

51-21964-11

| Item ID               | 21964K      |
|-----------------------|-------------|
| Stack Size (In.)      | 3/4         |
| Volts                 | 208-230     |
| RPM                   | 3000        |
| Amps                  | 0.25        |
| Speeds                | 1           |
| Rotation              | CW          |
| Shaft Dimension (In.) | 1/4 x 1 1/2 |
| Type                  | Shaded Pole |
| Bearings              | Sleeve      |
| Enclosure             | Open        |
| Hertz                 | 60          |
| Overload              | Automatic   |



**NEW**

## Skymark

### Replaces

MTR136PK

| Item ID   | 82136       |
|-----------|-------------|
| H.P.      | 1/35        |
| Volts     | 208-230     |
| RPM       | 3000        |
| Amps      | 1.10        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



**NEW**

## Trane

### Replaces

X38040253057

| Item ID   | 82057       |
|-----------|-------------|
| H.P.      | 1/40        |
| Volts     | 115         |
| RPM       | 3000        |
| Amps      | 1.00        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

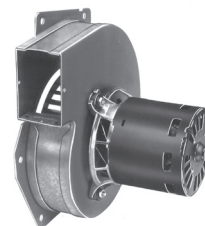


## Trane

### Replaces

38040252 X38040252017  
X3804025202

| Item ID   | 82252       |
|-----------|-------------|
| H.P.      | 1/50        |
| Volts     | 208-240     |
| RPM       | 3000        |
| Amps      | 0.39        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



### Replaces

210330673 210340125 X38040305017  
7021-8428 D330809P01 R7-RFB143

| Item ID   | A143        |
|-----------|-------------|
| H.P.      | 1/50        |
| Volts     | 115         |
| RPM       | 3000        |
| Amps      | 0.95        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Trane



### Replaces

D330787P01 D330809P01 BLW473  
X38040305010 X38040305017

### Item ID 66787

|           |              |
|-----------|--------------|
| Volts     | 120          |
| RPM       | 3000         |
| Amps      | 1.20         |
| Speeds    | 1            |
| Type      | Shaded Pole  |
| Bearings  | Ball         |
| Enclosure | Open         |
| Hertz     | 60           |
| Overload  | Automatic    |
| Includes  | Special Plug |

## Trane



### Replaces

X38040253057 7021-8569

### Item ID A192

|           |             |
|-----------|-------------|
| H.P.      | 1/40        |
| Volts     | 115         |
| RPM       | 3000        |
| Amps      | 1.00        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## Trane



### Replaces

C661452P01 X38080029010

### Item ID A150

|           |             |
|-----------|-------------|
| H.P.      | 1/35        |
| Volts     | 208-230     |
| RPM       | 3000        |
| Amps      | 0.50        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## York



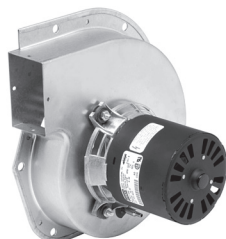
### Replaces

026-33999-001

### Item ID 82999

|           |             |
|-----------|-------------|
| H.P.      | 1/30        |
| Volts     | 208-230     |
| RPM       | 3200        |
| Amps      | 0.65        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## York



### Replaces

026-33999-001

### Item ID A223

|           |             |
|-----------|-------------|
| H.P.      | 1/30        |
| Volts     | 208-230     |
| RPM       | 3200        |
| Amps      | 0.64        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Sleeve      |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |

## York



### Replaces

7062-2442 7062-3342 7062-3484

### Item ID A137

|           |           |
|-----------|-----------|
| H.P.      | 1/25      |
| Volts     | 115       |
| RPM       | 3450      |
| Amps      | 0.70      |
| Speeds    | 1         |
| Type      | PSC       |
| Bearings  | Sleeve    |
| Enclosure | Open      |
| Hertz     | 60        |
| Overload  | Automatic |

## York



### Replaces

024-25960-000 7062-3958

### Item ID A165

|           |           |
|-----------|-----------|
| H.P.      | 1/25      |
| Volts     | 115       |
| RPM       | 3450      |
| Amps      | 0.70      |
| Speeds    | 1         |
| Type      | PSC       |
| Bearings  | Ball      |
| Enclosure | Open      |
| Hertz     | 60        |
| Overload  | Automatic |

## York



### Replaces

7021-11577 17503 7021-11577S  
7021-11830 024-34558-000

### Item ID A225

|           |             |
|-----------|-------------|
| H.P.      | 1/15        |
| Volts     | 115         |
| RPM       | 3200        |
| Amps      | 2.25        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Bearings  | Ball        |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



## Carrier

### Replaces

LA11XA048

### Item ID

A65048BW

|                |            |
|----------------|------------|
| Diameter (In.) | 3.82       |
| Width (In.)    | 1.65       |
| Rotation       | CW Hub End |
| Bore (In.)     | 5/16       |



## Fasco

### Item ID

A166

|                  |       |
|------------------|-------|
| Nameplate CFM    | 115   |
| Volts            | 115   |
| RPM at Free Air  | 3200  |
| Amps at Free Air | 1.40  |
| Hertz            | 50/60 |



## Carrier

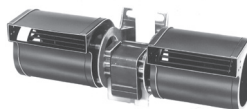
### Replaces

LA11AA005

### Item ID

A65569BW

|                |       |
|----------------|-------|
| Diameter (In.) | 4     |
| Width (In.)    | 1 1/2 |
| Rotation       | CCW   |
| Bore (In.)     | 5/16  |



## Fasco

### Replaces

7002-1241

### Item ID

A133

|           |             |
|-----------|-------------|
| Volts     | 115         |
| RPM       | 3000        |
| Amps      | 1.20        |
| Speeds    | 1           |
| Type      | Shaded Pole |
| Enclosure | Open        |
| Hertz     | 60          |
| Overload  | Automatic   |



## Carrier

### Item ID

A65894BW

|                |            |
|----------------|------------|
| Diameter (In.) | 4.0        |
| Width (In.)    | 1.50       |
| Rotation       | CW Hub End |
| Bore (In.)     | 5/16       |



## Fasco

### Replaces

7002-2983 230-1460

### Item ID

A120

|           |             |
|-----------|-------------|
| H.P.      | 1/40        |
| Volts     | 120         |
| RPM       | 3000        |
| Amps      | 1.10        |
| Speeds    | 2           |
| Type      | Shaded Pole |
| Enclosure | Open        |
| Bearing   | Ball        |
| Hertz     | 60          |
| Overload  | Automatic   |



## Carrier

### Replaces

LAXA046

### Item ID

BW11046

|                |       |
|----------------|-------|
| Diameter (In.) | 4 1/2 |
| Width (In.)    | 1 5/8 |
| Rotation       | CCW   |
| Bore (In.)     | 1/4   |



## Fasco

### Item ID

B45267

|                  |           |
|------------------|-----------|
| Nameplate CFM    | 460       |
| Volts            | 115       |
| RPM at Free Air  | 1600/1400 |
| Amps at Free Air | 2.90      |
| Speeds           | 2         |
| Bearing          | Sleeve    |
| Hertz            | 60        |



## Carrier

### Replaces

LA21RB549

### Item ID

BW16549

|                |       |
|----------------|-------|
| Diameter (In.) | 5 1/4 |
| Width (In.)    | 1     |
| Rotation       | CW    |
| Bore (In.)     | 5/16  |



## Fasco

### Item ID

B47120

|                  |               |
|------------------|---------------|
| Nameplate CFM    | 180           |
| Volts            | 115           |
| RPM at Free Air  | 1360/1100/830 |
| Amps at Free Air | 1.95          |
| Speeds           | 3             |
| Bearing          | Sleeve        |
| Hertz            | 60            |



## Carrier

### Replaces

LA21RB548

### Item ID

BW16548

|                |       |
|----------------|-------|
| Diameter (In.) | 5 3/4 |
| Width (In.)    | 1     |
| Rotation       | CW    |
| Bore (In.)     | 5/16  |



## Direct Replacement Water Heater Draft Inducers



| Item ID                                  | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure | Replaces                                             |
|------------------------------------------|------|-------|------|------|--------|----------|------|----------|-----------|------------------------------------------------------|
| <b>American Water Heater Replacement</b> |      |       |      |      |        |          |      |          |           |                                                      |
| W1                                       | 1/25 | 115   | 3210 | 1.90 | 1      | CW       | SP   | Sleeve   | OFC       | American Water Heater 3000288                        |
| <b>AO Smith Replacements</b>             |      |       |      |      |        |          |      |          |           |                                                      |
| W2                                       | 1/14 | 115   | 3275 | 2.30 | 1      | CW       | SP   | Ball     | Open      | AO Smith 183505-000                                  |
| W4                                       | 1/20 | 115   | 3400 | 1.80 | 1      | CCW      | SP   | Sleeve   | Open      | AO Smith 183381-000                                  |
| <b>Bradford White Replacements</b>       |      |       |      |      |        |          |      |          |           |                                                      |
| W3                                       | 1/17 | 115   | 3000 | 1.80 | 1      | CCW      | SP   | Sleeve   |           | Bradford White 117524-00 Bradford White 239-39785-00 |
| W5                                       | 1/14 | 115   | 3275 | 2.50 | 1      | CW       | SP   | Ball     | Open      | Bradford White 239-42133-00B                         |
| W6                                       | 1/15 | 115   | 3000 | 2.20 | 1      | CCW      | SP   | Sleeve   | Open      | Bradford White 239-40614-00C                         |
| <b>GSW Replacements</b>                  |      |       |      |      |        |          |      |          |           |                                                      |
| W7                                       | 1/25 | 115   | 3200 | 1.30 | 1      | CW       | SP   | Sleeve   | OFC       | GSW 63217                                            |
| W8                                       | 1/25 | 115   | 3200 | 1.30 | 1      | CW       | SP   | Sleeve   | OFC       | GSW 63172                                            |
| <b>State Ind. Replacements</b>           |      |       |      |      |        |          |      |          |           |                                                      |
| W9                                       | 1/60 | 115   | 3000 | 0.95 | 1      | CW       | SP   | Sleeve   | OFC       | State Ind. 0012400500                                |
| W10                                      | 1/20 | 115   | 3400 | 1.80 | 1      | CCW      | SP   | Sleeve   | OFC       | State Ind. 0012400540                                |

## Transflow Blowers



| Item ID      | Nameplate CFM | Volts | RPM at Free Air | Amps at Free Air | Speeds | Type        | Enclosure | Hertz | Overload  | Phase | Static Pressure 0.1 in. | Static Pressure 0.2 in. |
|--------------|---------------|-------|-----------------|------------------|--------|-------------|-----------|-------|-----------|-------|-------------------------|-------------------------|
| <b>Fasco</b> |               |       |                 |                  |        |             |           |       |           |       |                         |                         |
| B22508       | 105           | 115   | 1500            | 0.70             | 1      | Shaded Pole | Open      | 60    | Automatic | 1     | 100                     | 60                      |
| B22513       | 215           | 115   | 2780            | 1.30             | 1      | Shaded Pole | Open      | 60    | Automatic | 1     | 196                     | 70                      |
| B22510       | 150           | 115   | 3100            | 1.00             | 1      | Shaded Pole | Open      | 50/60 | Automatic | 1     | 125                     | 83                      |
| B22505       | 80            | 115   | 3200            | 0.55             | 1      | Shaded Pole | Open      | 50/60 | Automatic | 1     | 57                      | 22                      |



A158



A180



82862



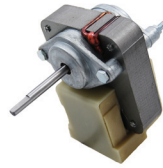
66404



OBK6002V1



40752



65094  
65159  
65176  
65216



65366



82583  
83584

## Amana

| Item ID        | H.P. | Volts   | RPM  | Amps      | Speeds | Rotation | Type | Bearings | Enclosure | Hertz | Replaces              |
|----------------|------|---------|------|-----------|--------|----------|------|----------|-----------|-------|-----------------------|
| <b>Fasco</b>   |      |         |      |           |        |          |      |          |           |       |                       |
| A158           | 1/25 | 115     | 3450 | 0.70      | 1      | CW       | PSC  | Sleeve   | Open      | 60    | D98686-7<br>7062-3151 |
| A180           | 1/30 | 115     | 3400 | 1.80      | 1      | CCW      | SP   | Ball     | Open      | 60    | 20190601<br>7021-9625 |
| <b>Packard</b> |      |         |      |           |        |          |      |          |           |       |                       |
| 82862          | 1/35 | 208-240 | 3000 | 0.50-0.59 | 1      | CW       | SP   | Sleeve   | Open      | 60    | 098862-1<br>7021-7006 |

## Armstrong

| Item ID        | Volts | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure | Hertz | Overload  | Replaces               |
|----------------|-------|------|------|--------|----------|------|----------|-----------|-------|-----------|------------------------|
| <b>Packard</b> |       |      |      |        |          |      |          |           |       |           |                        |
| 66404          | 115   | 3200 | 1.20 | 1      | CWLE     | SP   | Ball     | Open      | 60    | Automatic | 40404-003<br>117521-00 |

## Beckett

| Shaft          |      |       |      |      |        |          |                 |      |          |                  |       |       |          |          |
|----------------|------|-------|------|------|--------|----------|-----------------|------|----------|------------------|-------|-------|----------|----------|
| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Dimension (In.) | Type | Bearings | Enclosure        | Frame | Hertz | Mounting | Replaces |
| <b>Century</b> |      |       |      |      |        |          |                 |      |          |                  |       |       |          |          |
| OBK6002V1      | 1/7  | 115   | 3450 | 1.80 | 1      | CWOSE    | 1/2 x 1 7/8     | PSC  | Ball     | Totally Enclosed | 48M   | 60    | M Flange | 21805U   |

## Broan

| Stack          |            |       |       |      |      |        |          |                       |                         |      |          |           |                                  |        |
|----------------|------------|-------|-------|------|------|--------|----------|-----------------------|-------------------------|------|----------|-----------|----------------------------------|--------|
| Item ID        | Size (In.) | H.P.  | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure | Replaces                         | Notes  |
| <b>Packard</b> |            |       |       |      |      |        |          |                       |                         |      |          |           |                                  |        |
| 40752          | —          | 1/40  | 120   | 1500 | 1.30 | 1      | CCW      | 1/4 x 1 1/2           | 2 1/8                   | SP   | Sleeve   | Open      | 97009752<br>99080096<br>99080345 | 512    |
| 65094          | 7/8        | —     | 120   | 3000 | 0.75 | 1      | CCW      | 7/32 x 1 3/8          | —                       | SP   | Sleeve   | Open      | 99080094<br>99080099<br>99080166 |        |
| 65159          | 7/8        | —     | 120   | 3000 | 0.71 | 1      | CCW      | 1/4 x 2 3/4           | —                       | SP   | Sleeve   | Open      | 99080159                         | 491    |
| 65176          | 1 1/8      | —     | 120   | 3000 | 1.00 | 1      | CW       | 7/32 x 1 1/2          | —                       | SP   | Sleeve   | Open      | 99080176                         |        |
| 65216          | 5/8        | —     | 120   | 3000 | 0.51 | 1      | CCW      | 0.181 x 1 1/2         | —                       | SP   | Sleeve   | Open      | 99080090<br>99080216             |        |
| 65366          | 5/8        | —     | 120   | 3000 | 0.50 | 2      | CCW      | 3/16 x 1 1/4          | —                       | SP   | Sleeve   | Open      | 99080365                         |        |
| 82583          | —          | 1/100 | 120   | 1550 | 0.55 | 1      | CCW      | 5/16 x 1 3/4          | 2 1/2                   | SP   | Sleeve   | Open      | 97008583                         | 45 513 |
| 82584          | —          | 1/30  | 120   | 1550 | 1.30 | 1      | CCW      | 5/16 x 1 7/8          | 2 1/2                   | SP   | Sleeve   | Open      | 97008584                         | 513    |

### Notes:

45. Impedence protected  
491. Has a flatted shaft

512. With cord and 2 prong 90 degree plug  
513. Special plug and cord attached



## Carrier

| Item ID        | H.P. | Stack Size (In.) | Volts   | RPM       | Amps      | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Replaces                                                                                               |
|----------------|------|------------------|---------|-----------|-----------|--------|----------|-----------------------|-------------------------|------|----------|--------------------------------------------------------------------------------------------------------|
| <b>Packard</b> |      |                  |         |           |           |        |          |                       |                         |      |          |                                                                                                        |
| 65123          | —    | 1.50             | 115     | 3000      | 1.50      | 1      | CCWLE    | 3/4 x 5/16 x 1 5/8    | 2.54                    | SP   | Ball     | HC21ZE123A                                                                                             |
| 65569          | 25   | —                | 115     | 3300      | 1.80      | 1      | CW       | 1 x 5/16 x 1 7/8      | 3 3/8                   | SP   | Ball     | HC21ZE117B                                                                                             |
| 65570          | 25   | —                | 230     | 3000      | 0.80      | 1      | CW       | 1 x 5/16 x 1 7/8      | 3 5/8                   | SP   | Ball     | HC24HE230                                                                                              |
| 65230          | 28   | 1.58             | 208-230 | 3000      | 0.80      | 1      | CWSE     | —                     | —                       | SP   | Ball     | HC24HE230                                                                                              |
| 82121          | 1/33 | —                | 115     | 3000      | 1.10      | 1      | CCWLE    | 5/16 x 2 1/8          | 3 3/8                   | SP   | Sleeve   | JA1M086<br>P251-2916                                                                                   |
| 65118          | 1/30 | —                | 115     | 2800/2500 | 1.80/0.60 | 2      | CCWLE    | 3/4 x 5/16 x 1 5/8    | 2.724                   | SP   | Ball     | HC21ZE118                                                                                              |
| 82180          | 1/20 | —                | 115     | 3300      | 1.54      | 1      | CCWLE    | 5/16 x 2 1/8          | 3 5/8                   | SP   | Sleeve   | JA1P053<br>P251-2307                                                                                   |
| 82520          | 1/20 | —                | 115/230 | 3000      | 2.00/1.00 | 1      | CW       | 1/4 x 2 1/2           | 5 5/8                   | SP   | Ball     | HC24AU600<br>HC24AU600B<br>HC24AO701<br>HC24AU231<br>HC24AU701<br>HC30GU208A<br>HC30GU209A<br>HC680001 |
| NEW 66815      | 1/16 | —                | 208-230 | 3450      | 0.48      | 1      | CCW      | —                     | —                       | PSC  | Ball     | 50DK406815<br>HC30GB232                                                                                |
| 82521          | 1/15 | —                | 115/230 | 3000      | 2.00/1.00 | 1      | CCW      | 1/4 x 2 1/2           | 5 5/8                   | SP   | Ball     | HC24AU700                                                                                              |
| NEW 66649      | 1/6  | —                | 208-230 | 3450      | 0.5       | 1      | CCW      | —                     | —                       | PSC  | Ball     | 48GS400106<br>48GS400649                                                                               |
| 82113          | 3/4  | —                | 115     | 1075      | 11.0      | 3      | CW       | 1/2 x 2 3/4           | 5.40                    | PSC  | Ball     | HC45TE113<br>5KCP39PGV623CS                                                                            |

## Choice Vending

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.)   | Type | Bearings | Enclosure | Replaces |
|----------------|------------------|-------|------|------|--------|----------|-------------------------|------|----------|-----------|----------|
| <b>Packard</b> |                  |       |      |      |        |          |                         |      |          |           |          |
| 65533          | 1/2              | 120   | 3000 | 0.22 | 1      | CW       | Splined (3/16 Diameter) | SP   | Sleeve   | Open      | 863243   |

## Coleman Evcon

| Item ID        | Stack Size (In.) | H.P.  | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Replaces                       |
|----------------|------------------|-------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|--------------------------------|
| <b>Fasco</b>   |                  |       |       |      |      |        |          |                       |      |          |           |                                |
| K629           | 1                | 1/85  | 115   | 2950 | 0.67 | 1      | CW       | 1/4 x 1 1/8           | SP   | Sleeve   | Open      | 7990-317P<br>7102-2187         |
| <b>Packard</b> |                  |       |       |      |      |        |          |                       |      |          |           |                                |
| NEW 65475      | —                | 1/150 | 115   | 3315 | 0.4  | 1      | CCWSE    | —                     | SP   | Ball     | —         | 373-19801-820<br>373-19801-821 |



**Copeland**

| Item ID                               | H.P. | Watts | Volts   | RPM  | Amps | Speeds | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | ENCL. | Dia. (In.) | Hertz | Replaces    | Notes |
|---------------------------------------|------|-------|---------|------|------|--------|------------|-----------------------|-------------------------|------|----------|-------|------------|-------|-------------|-------|
| <b>Electric Motor and Specialties</b> |      |       |         |      |      |        |            |                       |                         |      |          |       |            |       |             |       |
| 15040                                 | —    | 50    | 115     | 1500 | 1.70 | 1      | CW         | 3/8 x 1 1/2           | 3 5/8                   | SP   | Unit     | Semi  | —          | 60    | 050-0244-01 |       |
| 15041                                 | —    | 50    | 230     | 1500 | 0.85 | 1      | CW         | 3/8 x 1 1/2           | 3 5/8                   | SP   | Unit     | Semi  | —          | 60    | 050-0244-00 |       |
| 15049                                 | —    | 50    | 208-230 | 1500 | 0.85 | 1      | CW         | 3/8 x 1 1/2           | 3 3/4                   | SP   | Unit     | Semi  | —          | 50/60 | 050-0244-00 | 97    |
| 15460                                 | —    | 50    | 460     | 1500 | 0.44 | 1      | CW         | 3/8 x 1 1/2           | 3 5/8                   | SP   | Unit     | Semi  | —          | 60    | 050-0244-02 |       |
| <b>NEW</b> 15461                      | —    | 50    | 460     | 1500 | 0.44 | 1      | CCW        | 5/16 x 2              | 3 5/8                   | SP   | Sleeve   | Open  | —          | 60    | 050-0264-03 |       |
| <b>Packard</b>                        |      |       |         |      |      |        |            |                       |                         |      |          |       |            |       |             |       |
| 40250                                 | 1/4  | —     | 230     | 1625 | 1.50 | 1      | CCWSE      | 1/2 x 3 7/8           | 3 7/8                   | PSC  | Sleeve   | Open  | 5 5/8      | 50/60 | 950-0250-00 |       |
| 40251                                 | 1/6  | —     | 230     | 1625 | 1.10 | 1      | CCWSE      | 1/2 x 3 7/8           | 3 7/8                   | PSC  | Sleeve   | Open  | 5 5/8      | 50/60 | 998-0251-00 |       |
| 40265                                 | 1/6  | —     | 208-230 | 1550 | 1.10 | 1      | Reversible | 1/2 x 3               | 3 1/2                   | PSC  | Sleeve   | Open  | 5 5/8      | 50/60 | 050-0265-00 |       |

Notes:

97. May be used on 208 Volt applications

**Delfield**

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Hertz | Replaces     |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|-------|--------------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |      |          |           |       |              |
| 65514          | 5/8              | 120   | 3000 | 0.44 | 1      | CW       | 3/16 x 3/4            | SP   | Sleeve   | Open      | 60    | 1175-10-4439 |

**Dunkirk**

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Type | Bearings | Enclosure | Hertz | Replaces   |
|----------------|------|-------|------|------|--------|------|----------|-----------|-------|------------|
| <b>Packard</b> |      |       |      |      |        |      |          |           |       |            |
| 82052          | 1/50 | 115   | 3000 | 1.00 | 1      | SP   | Sleeve   | Open      | 60    | 433-00-510 |

**Fedders**

| Item ID        | H.P. | Volts   | RPM  | Amps      | Speeds | Rotation | Type | Bearings | Enclosure | Hertz | Replaces |
|----------------|------|---------|------|-----------|--------|----------|------|----------|-----------|-------|----------|
| <b>Packard</b> |      |         |      |           |        |          |      |          |           |       |          |
| 82618          | 1/35 | 115/230 | 3000 | 0.90/0.45 | 1      | CWLE     | SP   | Ball     | Open      | 60    | 031-7059 |

**First Company**

| Item ID        | H.P.     | Volts   | RPM  | Amps      | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure | Dia. (In.) | Replaces | Notes   |
|----------------|----------|---------|------|-----------|--------|----------|-----------------------|-------------------------|------|----------|-----------|------------|----------|---------|
| <b>Fasco</b>   |          |         |      |           |        |          |                       |                         |      |          |           |            |          |         |
| D258           | 1/5-1/10 | 208-230 | 1550 | 2.80-1.30 | 2      | CCWLE    | 8 x 1/2 x 8           | 3 3/8                   | PSC  | Sleeve   | Open      | 5          | M10      | 515 556 |
| D715           | 1/8      | 208-230 | 1500 | 1.40      | 2      | CCWLE    | 6 1/2 x 1/2 x 6 1/2   | 4                       | PSC  | Sleeve   | Open      | 5 5/8      | M8       |         |
| D716           | 1/4      | 208-230 | 1625 | 1.65      | 2      | CCWLE    | 7 3/4 x 1/2 x 7 3/4   | 3 3/4                   | PSC  | Sleeve   | Open      | 5 5/8      | M10      |         |
| <b>Packard</b> |          |         |      |           |        |          |                       |                         |      |          |           |            |          |         |
| 80010          | 1/4      | 208-230 | 1625 | 1.65      | 2      | CCWLE    | 7 1/4 x 1/2 x 7 1/4   | 4.57                    | PSC  | Ball     | Open      | 5 5/8      | M10      |         |
| 82201          | 1/4      | 208-230 | 1145 | 1.21      | 1      | CCWSE    | 1/2 x 7/12            | 4.37                    | PSC  | Ball     | Open      | 5 5/8      | M201B    |         |

Notes:

515. 5M 370V capacitor included

556. Comes with 2 1/2" O.D. rubber mounting rings





65685



A079



A140



A162



A182



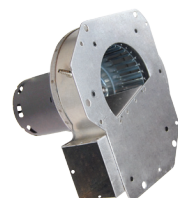
48331



48332



66002



66003



66005



66590



82483

## General Electric

| Item ID        | Stack Size (In.) | Volts | RPM       | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Replaces |
|----------------|------------------|-------|-----------|------|--------|----------|-----------------------|------|----------|-----------|----------|
| <b>Packard</b> |                  |       |           |      |        |          |                       |      |          |           |          |
| 65685          | 1                | 120   | 3000/1550 | 1.41 | 2      | CW       | 3/16 x 1 5/8          | SP   | Sleeve   | Open      | WB26X45  |

## Goodman

| Item ID        | H.P. | Volts   | RPM       | Amps      | Speeds | Rotation | Type | Bearings | Enclosure        | Replaces                                                     | Notes |
|----------------|------|---------|-----------|-----------|--------|----------|------|----------|------------------|--------------------------------------------------------------|-------|
| <b>Fasco</b>   |      |         |           |           |        |          |      |          |                  |                                                              |       |
| A079           | 1/50 | 115     | 3000      | 1.10      | 1      | CCW      | SP   | Sleeve   | Totally Enclosed | B1859000<br>74-70-21964-03-01<br>7021-6804                   |       |
| A140           | 1/50 | 115     | 3400      | 1.40      | 1      | CW       | SP   | Sleeve   | Open             | B2833001S<br>B2833001<br>7021-9000<br>7021-9087<br>FB-RFB140 |       |
| A162           | 1/50 | 208-230 | 3000      | 0.50      | 1      | CCW      | SP   | Sleeve   | Open             | B295900<br>7021-8656                                         |       |
| A182           | 1/35 | 115     | 3125      | 1.20      | 1      | CCW      | SP   | Sleeve   | Open             | B4059000<br>7002-3036                                        |       |
| <b>Packard</b> |      |         |           |           |        |          |      |          |                  |                                                              |       |
| 48331          | —    | 115     | 3200      | 1.80      | 1      | CWLE     | SP   | Ball     | Open             | 5KSB46GF0001S<br>B4833000                                    | 79    |
| 48332          | —    | 115     | 3200/2800 | 1.80-1.10 | 2      | CWLE     | SP   | Ball     | Open             | 5KSB46GF0003S<br>B4833001                                    | 48 79 |
| 66002          | 1/35 | 115     | 3000      | 1.90      | 1      | CWLE     | SP   | Ball     | Open             | 0131M00002P<br>0131M00002S<br>119276-00                      |       |
| 66003          | —    | 115     | 3250      | 0.92      | 1      | CCWLE    | SP   | Sleeve   | Open             | 098862-1<br>11009001<br>11009003                             |       |
| 66005          | 1/30 | 115     | 3000      | 1.60      | 1      | CWLE     | SP   | Ball     | Open             | B1859005<br>J238-11128                                       |       |
| 66590          | 1/30 | 115     | 3000      | 1.50      | 1      | CWLE     | SP   | Ball     | Open             | B40590-00<br>J238-112-11195                                  |       |
| 82483          | 1/50 | 115     | 3000      | 1.00      | 1      | CWLE     | SP   | Ball     | Totally Enclosed | B1859000<br>B1859000S                                        |       |

Notes:

48. Has 2 speed plug

79. Includes rubber boot



35100  
35101  
35200  
35201

97701  
97801



45008S  
45008T

A064



49101

65119



65691  
65692

65133

## Heatcraft - Bohn - Larkin

| Item ID               | H.P.                   | Volts       | RPM       | Amps      | Speeds | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure        | Replaces                                     | Notes             |
|-----------------------|------------------------|-------------|-----------|-----------|--------|------------|-----------------------|-------------------------|------|----------|------------------|----------------------------------------------|-------------------|
| <b>Morrill Motors</b> |                        |             |           |           |        |            |                       |                         |      |          |                  |                                              |                   |
| 35100                 | 1/15                   | 115         | 1550      | 1.30      | 1      | CWOSE      | 5/16 x 4 1/8          | 2 5/8                   | ECM  | Ball     | Totally Enclosed | 253-1194                                     |                   |
| 35101                 | 1/15                   | 115         | 1550      | 1.30      | 1      | CCWOSE     | 5/16 x 4 1/8          | 2 5/8                   | ECM  | Ball     | Totally Enclosed | 5008S                                        |                   |
| 35200                 | 1/15                   | 208-230     | 1550      | 0.80      | 1      | CWOSE      | 5/16 x 4 1/8          | 2 5/8                   | ECM  | Ball     | Totally Enclosed | 253-1195                                     |                   |
| 35201                 | 1/15                   | 208-230     | 1550      | 0.80      | 1      | CCWOSE     | 5/16 x 4 1/8          | 2 5/8                   | ECM  | Ball     | Totally Enclosed | 5008T                                        |                   |
| <b>Packard</b>        |                        |             |           |           |        |            |                       |                         |      |          |                  |                                              |                   |
| 45008S                | 1/15                   | 115         | 1550      | 1.80      | 1      | CWSE       | 5/16 x 3              | 3                       | SP   | Sleeve   | Open             | 5008S<br>5034LS                              | 499               |
| 45008T                | 1/15                   | 208/230     | 1550      | 1.20-1.00 | 1      | CWSE       | 5/16 x 3              | 3 1/2                   | SP   | Sleeve   | Open             | 5008T<br>5034MS                              | 499               |
| 49101                 | 1/12-1/15-1/20         | 115/208-230 | 1550/1400 | 1.10/0.50 | 1      | Reversible | 5/16 x 3 1/8          | 3 5/8                   | PSC  | Ball     | Open             | 7071061<br>25309101                          | 189<br>498        |
| 65691                 | 5/8" stack             | 120         | 3000      | 0.64      | 1      | CW         | 7/32 x 1 3/8          | —                       | SP   | Sleeve   | Open             | 5007S<br>5018S<br>5036F                      | 354<br>472<br>474 |
| 65692                 | 5/8" stack             | 240         | 3000      | 0.32      | 1      | CW         | 0.181 x 1 3/8         | —                       | SP   | Sleeve   | Open             | 5007<br>5018T<br>5036G                       | 354<br>472<br>474 |
| 97701                 | 1/15,<br>1/20,<br>1/25 | 230         | 1625      | 0.70      | 1      | CWSE       | 5/16 x 2.95           | 2.85                    | ECM  | Ball     | Totally Enclosed | 22617701<br>22617901<br>25307701<br>25307901 |                   |
| 97801                 | 1/15,<br>1/20,<br>1/25 | 120         | 1625      | 1.20      | 1      | CWSE       | 5/16 x 2.95           | 2.85                    | ECM  | Ball     | Totally Enclosed | 22617801<br>22618001<br>25307801<br>25308001 |                   |

### Notes:

189. Includes reversing plug

354. Impedance protected

472. Includes stand offs for other Bohn applications

498. 50/60 Hertz

474. Used in Bohn commercial evaporators

499. Identical bolt pattern as OEM motor

## Heil-Quaker

| Item ID | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure | Hertz | Overload  | Replaces |        |          |  |
|---------|------|-------|------|------|--------|----------|------|----------|-----------|-------|-----------|----------|--------|----------|--|
| Fasco   |      |       |      |      |        |          |      |          |           |       |           |          |        |          |  |
| A064    | 1/55 | 115   | 3150 | 0.70 | 1      | CW       | SP   | Sleeve   | Open      | 60    | Automatic | 5C085    | 610672 | HQ610672 |  |

## Hill

| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Hertz | Mounting         | Replaces | Notes |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------------------|-------|------------------|----------|-------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |                  |       |                  |          |       |
| 65119          | 5     | 115   | 1550 | 0.34 | CW       | 1/4 x 1/2             | 2 3/8                   | Totally Enclosed | 50/60 | Double Foot Pads | PP7577M  | 87    |

## Hussmann

| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Enclosure        | Hertz | Mounting        | Replaces | Notes |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------------------|-------|-----------------|----------|-------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |                  |       |                 |          |       |
| 65133          | 9     | 115   | 1550 | 0.50 | CW       | 1/4 x 1/2             | 2 1/2                   | Totally Enclosed | 50/60 | Single Foot Pad | 58698    | 87    |

Notes: 87. Includes straight Lyall plug



## ICP

| Item ID        | H.P.   | Volts   | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure        | Replaces                                                                                          |
|----------------|--------|---------|------|------|--------|----------|------|----------|------------------|---------------------------------------------------------------------------------------------------|
| <b>Fasco</b>   |        |         |      |      |        |          |      |          |                  |                                                                                                   |
| A134           | 1/25   | 115     | 3060 | 1.50 | 1      | CW       | SP   | Sleeve   | Open             | 1010238P 1010324<br>1708-607 1708-607P<br>R7-RFB134 7021-7700<br>7021-8735 7021-8736<br>7021-9335 |
| A148           | 1/50   | 208-230 | 3000 | 0.50 | 1      | CCW      | SP   | Sleeve   | Open             | 1054268P 7021-7617<br>7021-9237 HQ1054268FA                                                       |
| A170           | 1/25   | 115     | 3400 | 2.30 | 1      | CCW      | SP   | Ball     | Open             | 1010312 1010526<br>1010928 1011095<br>1011097 1011409<br>1164280                                  |
| A171           | 1/25   | 115     | 3450 | 0.70 | 1      | CCW      | PSC  | Ball     | Open             | 1010491 1010527P<br>1011096 1011410                                                               |
| A172           | 1/35   | 115     | 3000 | 1.60 | 1      | CW       | SP   | Ball     | Open             | 1010975 1010975P                                                                                  |
| A173           | 1/18   | 115     | 3450 | 0.80 | 1      | CCW      | PSC  | Ball     | Open             | 1011350 HQ1011350<br>HQ1011350FA R7-RFB350                                                        |
| A307           | 1/24   | 115     | 3450 | 0.70 | 1      | CW       | PSC  | Sleeve   | Open             | 7062-5165 1149097<br>7062-3794 1008416P                                                           |
| <b>Packard</b> |        |         |      |      |        |          |      |          |                  |                                                                                                   |
| 66254          | 1/50   | 230     | 3000 | 0.30 | 1      | CCWLE    | PSC  | Ball     | Open             | 1110008 1085571<br>1085571P 7021-10048<br>7021-10580                                              |
| 66338          | 50 MHP | 115     | 3000 | 2.40 | 1      | CW       | SP   | Ball     | Totally Enclosed | 1012002 1013388A<br>1014338                                                                       |
| 66350          | 1/25   | 115     | 3350 | 0.92 | 1      | CCWSE    | PSC  | Ball     | Open             | 1000814 1001371<br>1001609 1002543<br>1007360 1011350<br>1150474 HQ1011350                        |
| 66529          | 1/35   | 115     | 3000 | 1.50 | 1      | CCWSE    | SP   | Ball     | Open             | 100011645 10011645<br>10011945 1014433<br>1014529                                                 |
| 66833          | 28 MHP | 115     | 3000 | 1.60 | 1      | CW       | SP   | Ball     | Open             | 1010324 1010238P<br>1013833                                                                       |
| 82148          | 1/30   | 208-230 | 3000 | 0.50 | 1      | CCW      | SP   | Sleeve   | Open             | 1054268P 1054268<br>1HQ1054268FA                                                                  |
| 82672          | 1/60   | 115     | 3300 | 0.90 | 1      | CCWLE    | SP   | Sleeve   | Open             | 1006168                                                                                           |

NEW



## Johnson Furnace

| Item ID        | H.P.     | Volts   | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure | Dia. (In.) | Replaces |
|----------------|----------|---------|------|------|--------|----------|-----------------------|-------------------------|------|----------|-----------|------------|----------|
| <b>Packard</b> |          |         |      |      |        |          |                       |                         |      |          |           |            |          |
| 40493          | 1/6-1/10 | 208-230 | 1075 | 1.40 | 2      | CCW      | 1/2 x 2               | 4                       | PSC  | Sleeve   | Open      | 5 5/8      | 3699B    |
| 80280          | 1/60     | 230     | 3000 | 0.55 | 1      | CWLE     | —                     | —                       | SP   | Ball     | Open      | 3.3        | 8973C    |

## Kitchen Aid

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Replaces            |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|---------------------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |      |          |           |                     |
| 65455          | 1/2              | 120   | 3000 | 0.35 | 1      | CW       | 7/32 x 1              | SP   | Sleeve   | Open      | 240332-1<br>4162472 |

## Lennox

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure | Hertz | Overload  | Replaces                                |
|----------------|------|-------|------|------|--------|----------|------|----------|-----------|-------|-----------|-----------------------------------------|
| <b>Fasco</b>   |      |       |      |      |        |          |      |          |           |       |           |                                         |
| A155           | 1/30 | 115   | 3000 | 1.40 | 1      | CCW      | SP   | Ball     | Open      | 60    | Automatic | 7021-10046                              |
| A163           | 1/20 | 115   | 3400 | 1.80 | 1      | CCW      | SP   | Ball     | Open      | 60    | Automatic | 67K0401 67K0401P<br>7021-9450 FB-RFB547 |
| A200           | 1/30 | 115   | 3000 | 1.35 | 1      | CCW      | SP   | Sleeve   | Open      | 60    | Automatic | 313L5501 7002-2975                      |
| A202           | 1/30 | 115   | 3400 | 1.80 | 1      | CCW      | SP   | Ball     | Open      | 60    | Automatic | 45037-001 46087-001                     |
| <b>Packard</b> |      |       |      |      |        |          |      |          |           |       |           |                                         |
| 66401          | 1/60 | 120   | 2800 | 1.30 | 1      | CWLE     | SP   | Ball     | Open      | 60    | Automatic | 88K8401 J238-087-8171                   |
| 66501          | 1/30 | 115   | 3000 | 1.20 | 1      | CCWSE    | SP   | Ball     | Open      | 60    | Automatic | 31L5501 101202-01 102359-01             |
| 82590          | —    | 115   | 3000 | 1.20 | 1      | CWLE     | SP   | Ball     | Open      | 60    | Automatic | 47H12 LB-82590CA                        |

## L.L. Building

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Enclosure | Diameter (In.) | Capacitor Included | Replaces           |
|----------------|------|-------|------|------|--------|----------|-----------------------|-------------------------|------|-----------|----------------|--------------------|--------------------|
| <b>Packard</b> |      |       |      |      |        |          |                       |                         |      |           |                |                    |                    |
| 99320          | —    | 120   | 900  | 3.40 | 1      | CWSE     | 1/2 x 2.02            | 2.27                    | SP   | Open      | 5.12           | —                  | V909320            |
| 99319          | 1/4  | 120   | 1050 | 3.30 | 1      | CWSE     | 1/2 x 2.30            | 3.33                    | PSC  | Open      | 5.12           | 10MFD / 250VAC     | V909319            |
| 99321          | 1/5  | 120   | 1050 | 3.30 | 1      | CWSE     | 1/2 x 2.30            | 3.33                    | PSC  | Open      | 5.12           | 10MFD / 250VAC     | V909321<br>V909337 |
| 99371          | 1/7  | 120   | 1050 | 2.80 | 1      | CWSE     | 1/2 x 2.30            | 3.08                    | PSC  | Open      | 5.12           | 8MFD / 250VAC      | V909371<br>V909336 |

## Miller

| Item ID        | H.P. | Volts   | RPM  | Amps      | Speeds | Rotation | Type | Bearings | Hertz | Replaces  |
|----------------|------|---------|------|-----------|--------|----------|------|----------|-------|-----------|
| <b>Packard</b> |      |         |      |           |        |          |      |          |       |           |
| 80270          | 1/50 | 115/230 | 3000 | 0.90/0.45 | 1      | CWLE     | SP   | Ball     | 60    | 303875000 |





40695  
40696



40933



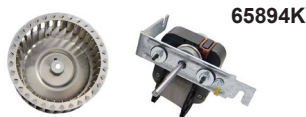
65100



65101



65272  
65709



65894K



80600



82423K



82510



82512  
82635  
82637  
82733



82513



82621

## Nutone

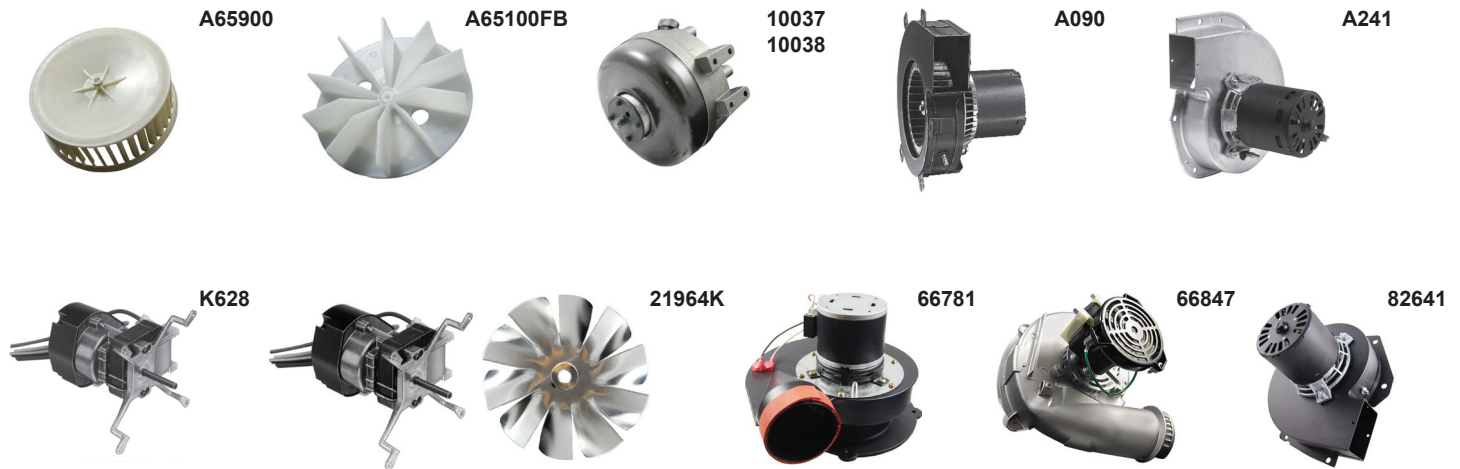
| Item ID        | Stack Size (In.) | H.P.      | Volts | RPM  | Amps      | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure        | Replaces          | Notes   |
|----------------|------------------|-----------|-------|------|-----------|--------|----------|-----------------------|-------------------------|------|----------|------------------|-------------------|---------|
| <b>Packard</b> |                  |           |       |      |           |        |          |                       |                         |      |          |                  |                   |         |
| 40695          | —                | 1/100     | 120   | 1180 | 0.60      | 1      | CWSE     | 1/4 x 1 1/8           | —                       | SP   | Sleeve   | Open             | 0695B000          | 529     |
| 40696          | —                | 1/45      | 115   | 1400 | 0.86      | 1      | CCWLE    | 1/4 x 1               | —                       | SP   | Sleeve   | Open             | 0696B000<br>86322 | 529     |
| 40933          | —                | 1/50      | 120   | 1550 | 1.20      | 1      | CCW      | 1/4 x 1               | 1 7/8                   | SP   | Sleeve   | Open             | 86933000<br>86933 | 482     |
| 65100          | 1/2              | —         | 120   | 3000 | 0.86/0.50 | 1      | CCW      | 7/32 x 1 5/8          | C Frame                 | SP   | Sleeve   | Open             | C65878            | 105     |
| 65101          | 7/8              | —         | 120   | 3000 | 0.86      | 2      | CW       | 7/32 x 1 5/16         | C Frame                 | SP   | Sleeve   | Open             | C52367            | 110     |
| 65272          | 1                | —         | 120   | 3000 | 1.10      | 1      | CCW      | 7/32 x 1 1/2          | C Frame                 | SP   | Sleeve   | Open             | C23272            | 485     |
| 65709          | 5/8              | —         | 120   | 3000 | 0.88      | 1      | CCW      | 7/32 x 2 3/8          | C Frame                 | SP   | Sleeve   | Open             | C53709            | 108 485 |
| 65894K         | 3/4              | —         | 120   | 3000 | 0.90      | 1      | CCW      | 7/32 x 2 3/8          | C Frame                 | SP   | Sleeve   | Open             | 82229<br>K5894    | 106     |
| 80600          | —                | 1/80      | 115   | 3000 | 0.65      | 1      | CW       | 1/4 x 2 1/8           | 2 1/2                   | SP   | Sleeve   | Open             | 16553             | 41      |
| 82423K         | 1/2              | —         | 120   | 2650 | 0.60      | 1      | CW       | 7/32 x 1 1/2          | C Frame                 | SP   | Sleeve   | Open             | 89423-000         | 106     |
| 82510          | —                | 1/70      | 115   | 1320 | 0.85      | 1      | CW       | 1/4 x 1 1/8           | 2 1/16                  | SP   | Sleeve   | Open             | C65073            | 41 482  |
| 82512          | —                | 1/100     | 115   | 1550 | 0.70      | 1      | CCW      | 1/4 x 1 1/8           | 2 1/16                  | SP   | Sleeve   | Totally Enclosed | 26750<br>26761    | 42      |
| 82513          | —                | 1/100     | 115   | 1550 | 0.70      | 1      | CCW      | 1/4 x 1 1/4           | 2 1/16                  | SP   | Sleeve   | Totally Enclosed | 23388<br>23405    | 41 42   |
| 82621          | —                | 1/10      | 115   | 1550 | 3.80      | 1      | CCW      | 5/16 x 1 1/2          | 3 5/8                   | SP   | Ball     | Open             | 32997<br>67176    |         |
| 82635          | —                | 1/91      | 115   | 1550 | 0.45      | 1      | CCW      | 1/4 x 1 1/8           | 2.09                    | SP   | Sleeve   | Totally Enclosed | 54123<br>54257    | 42      |
| 82637          | —                | 1/75      | 115   | 1550 | 0.63      | 1      | CCW      | 1/4 x 1 1/8           | 2                       | SP   | Sleeve   | Totally Enclosed | 53581             | 42      |
| 82733          | —                | 1/50-1/80 | 115   | 3000 | 1.00-0.60 | 2      | CW       | 1/4 x 1 1/4           | 2 1/2                   | SP   | Sleeve   | Totally Enclosed | C26733            | 42      |

### Notes:

41. 1 1/8" Hubs  
42. Includes cord and plug  
105. Includes A65100FB impeller

106. Assembled with bracket as illustrated  
108. Has a one shot overload  
110. Includes two speed plug

482. Two prong plug and cord attached  
485. Includes two prong plug  
529. Complete assembly, motor, mounting flange and blower wheel



## Nutone

| Item ID        | Bore (In.) | Diameter (In.) | Width (In.) | Bore    | Replaces  |
|----------------|------------|----------------|-------------|---------|-----------|
| <b>Packard</b> |            |                |             |         |           |
| A65900         | 1/4        | 5 3/4          | 2           | D Shape | 59000A000 |
| A65100FB       | 7/32       | 4 9/16         | —           | D Shape | 68920     |

## Oasis

| Item ID        | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Enclosure        | Hertz | Mounting         | Replaces                 |
|----------------|-------|-------|------|------|----------|-----------------------|-------------------------|------|------------------|-------|------------------|--------------------------|
| <b>Packard</b> |       |       |      |      |          |                       |                         |      |                  |       |                  |                          |
| 10037          | 5     | 115   | 1550 | 0.34 | CW       | 1/4 x 1/2             | 2 3/8                   | SP   | Totally Enclosed | 60    | Double Foot Pads | 027354-026<br>027354-037 |
| 10038          | 9     | 115   | 1550 | 0.53 | CW       | 1/4 x 1/2             | 2 1/2                   | SP   | Totally Enclosed | 60    | Double Foot Pads | 027354-038               |

## Rheem

| Item ID          | Stack Size (In.) | H.P. | Volts   | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Replaces                                                  |
|------------------|------------------|------|---------|------|------|--------|----------|-----------------------|------|----------|-----------|-----------------------------------------------------------|
| <b>Fasco</b>     |                  |      |         |      |      |        |          |                       |      |          |           |                                                           |
| A090             | —                | 1/50 | 115     | 3000 | 1.10 | 1      | CW       | —                     | SP   | Sleeve   | Open      | 74-70-21496-01<br>7021-5239<br>JAIM102                    |
| A241             | —                | 1/25 | 208-230 | 3200 | 0.62 | 1      | CW       | —                     | SP   | Sleeve   | Open      | 70-23641-81                                               |
| K628             | 3/4              | —    | 208-230 | 3000 | 0.25 | 1      | CW       | 1/4 x 1 1/2           | SP   | Sleeve   | Open      | 51-21964-01<br>51-21964-11                                |
| <b>Packard</b>   |                  |      |         |      |      |        |          |                       |      |          |           |                                                           |
| 21964K           | 3/4              | —    | 208-230 | 3000 | 0.25 | 1      | CW       | 1/4 x 1 1/2           | SP   | Sleeve   | Open      | 51-21964-11                                               |
| 66781            | —                | 1/50 | 115     | 3000 | 0.60 | 1      | CW       | —                     | PSC  | Ball     | Open      | 70-1010187-81<br>70-21496-83<br>70-24157-03<br>7021-11559 |
| 66847            | —                | 1/30 | 120     | 3000 | 1.70 | 1      | CCWLE    | —                     | SP   | Ball     | Open      | 117104-01<br>117847-07<br>70-22838-82<br>70-24157-03      |
| <b>NEW</b> 82641 | —                | 1/25 | 208-230 | 3200 | 0.62 | 1      | CW       | —                     | SP   | Sleeve   | Open      | 70-23641-81                                               |

Notes: 21964K: for more information, please see page 49.



## Reznor

| Item ID        | H.P. | Volts               | RPM  | Amps      | Speeds | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure        | Dia. (In.) | Replaces                                                                                                                                   |
|----------------|------|---------------------|------|-----------|--------|------------|-----------------------|-------------------------|------|----------|------------------|------------|--------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Fasco</b>   |      |                     |      |           |        |            |                       |                         |      |          |                  |            |                                                                                                                                            |
| D404           | 1/10 | 208-230             | 3000 | 0.80      | 1      | Reversible | 5/16 x 3 1/4          | 4 1/4                   | PSC  | Ball     | Open Vent.       | 3.3        | CW175-40069<br>CCW505-43424<br>CCW175-40070<br>7162-0293 7162-0348<br>7162-0294                                                            |
| D405           | 1/10 | 115                 | 3000 | 1.40      | 1      | Reversible | 5/16 x 3 1/4          | 4 1/4                   | PSC  | Ball     | Open Vent.       | 3.3        | CCW77162-0311<br>CCW175-43846<br>CW7162-0224<br>CW36860                                                                                    |
| D461           | 1/8  | 480                 | 3200 | 0.32      | 1      | CCW        | 5/16 x 3 1/3          | 4 1/4                   | PSC  | Sleeve   | Totally Enclosed | 3.3        | 43762<br>7162-0396                                                                                                                         |
| <b>Packard</b> |      |                     |      |           |        |            |                       |                         |      |          |                  |            |                                                                                                                                            |
| 40066          | 1/6  | 115                 | 1075 | 2.40      | 1      | Reversible | 1/2 x 3 3/8           | 4 1/2                   | PSC  | Ball     | Totally Enclosed | 5 5/8      | 55682                                                                                                                                      |
| 66505          | 1/10 | 115/<br>208/<br>230 | 3000 | 1.40/0.80 | 1      | Reversible | 5/16 x 3 1/4          | 4 1/4                   | PSC  | Ball     | Open             | 3.3        | CW175-40069<br>CCW505-43424<br>CCW175-40070<br>7162-0293 7162-0348<br>7162-0294<br>CCW77162-0311<br>CCW175-43846<br>CW7162-0224<br>CW36860 |
| 82384          | 1/8  | 115                 | 1075 | 2.60      | 1      | Reversible | 1/2 x 2 7/8           | 3 7/8                   | PSC  | Sleeve   | Totally Enclosed | 4.97       | 170-45888 319P384                                                                                                                          |

## Russell Coil

| Item ID        | Stack Size (In.) | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Type | Bearings | Enclosure | Hertz | Replaces   |
|----------------|------------------|-------|------|------|--------|----------|-----------------------|------|----------|-----------|-------|------------|
| <b>Packard</b> |                  |       |      |      |        |          |                       |      |          |           |       |            |
| 67154          | 3/4              | 120   | 3000 | 0.55 | 1      | CCW      | 1/4 x 5/8             | SP   | Sleeve   | Open      | 60    | 102249-005 |

## Skymark

| Item ID        | H.P. | Volts   | RPM  | Amps | Speeds | Rotation | Type        | Bearings | Enclosure | Replaces |
|----------------|------|---------|------|------|--------|----------|-------------|----------|-----------|----------|
| <b>Packard</b> |      |         |      |      |        |          |             |          |           |          |
| NEW 82136      | 1/35 | 208-230 | 3000 | 1.10 | 1      | CCW      | Shaded Pole | Sleeve   | Open      | MTR136PK |

## Sterling Radiator Co.

| Item ID        | H.P. | Volts | RPM  | Amps | Speeds | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure        | Dia. (In.) | Mounting | Replaces |
|----------------|------|-------|------|------|--------|----------|-----------------------|-------------------------|------|----------|------------------|------------|----------|----------|
| <b>Packard</b> |      |       |      |      |        |          |                       |                         |      |          |                  |            |          |          |
| 40242          | 1/20 | 115   | 1050 | 2.00 | 1      | CW       | 3/8 x3                | 3.19                    | SP   | Sleeve   | Totally Enclosed | 5          | Stud     | MOT6243  |

## Tecumseh

| Item ID                               | Watts | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Enclosure        | Hertz | Replaces              |
|---------------------------------------|-------|-------|------|------|----------|-----------------------|-------------------------|------|------------------|-------|-----------------------|
| <b>Electric Motor and Specialties</b> |       |       |      |      |          |                       |                         |      |                  |       |                       |
| 15020                                 | 35    | 115   | 1500 | 1.40 | CW       | 1/4 x 1/2             | 3 3/8                   | SP   | Totally Enclosed | 60    | 810M035A29            |
| 15021                                 | 35    | 230   | 1500 | 0.70 | CW       | 1/4 x 1/2             | 3 3/8                   | SP   | Totally Enclosed | 60    | 810M035A21 810M035A28 |
| 15045                                 | 50    | 230   | 1500 | 0.85 | CCW      | 5/16 x 2 1/2          | 3 3/4                   | SP   | Open             | 60    | 810M050A62            |



## Trane

| Item ID | H.P. | Volts   | RPM  | Amps | Speeds | Rotation | Type | Bearings | Replaces                  |                         |                           | Notes |
|---------|------|---------|------|------|--------|----------|------|----------|---------------------------|-------------------------|---------------------------|-------|
| Fasco   |      |         |      |      |        |          |      |          |                           |                         |                           |       |
| A143    | 1/50 | 115     | 3000 | 0.95 | 1      | CW       | SP   | Sleeve   | 210330673<br>7021-8428    | 210340125<br>D330809P01 | X38040305017<br>R7-RFB143 |       |
| A150    | 1/35 | 208-230 | 3000 | 0.50 | 1      | CCW      | SP   | Sleeve   | C661452P01<br>21C729631P1 | X38080029010<br>BLW-451 |                           |       |
| A192    | 1/40 | 115     | 3000 | 1.00 | 1      | CCW      | SP   | Ball     | 7021-8569                 | X38040253057            |                           |       |
| Packard |      |         |      |      |        |          |      |          |                           |                         |                           |       |
| 66787   | —    | 120     | 3000 | 1.20 | 1      | CCWLE    | SP   | Ball     | BLW473<br>21C138126       | 210330673<br>21D330673  | 210340125<br>787P01       | 111   |
| 82057   | 1/40 | 115     | 3000 | 1.00 | 1      | CCWSE    | SP   | Ball     | X38040253057              |                         |                           |       |
| 82252   | 1/50 | 208-240 | 3000 | 0.39 | 1      | CWLE     | SP   | Sleeve   | 38040252                  | X38040252017            | X3804025202               |       |

Notes:  
111. Includes special plug

## Tyler

| Item ID               | Watts | Volts | RPM  | Amps | Rotation   | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Enclosure        | Mounting      | Hertz | Replaces |
|-----------------------|-------|-------|------|------|------------|-----------------------|-------------------------|------|------------------|---------------|-------|----------|
| <b>Morrill Motors</b> |       |       |      |      |            |                       |                         |      |                  |               |       |          |
| 15990                 | 9     | 115   | 1550 | 0.23 | Reversible | 1/4 threaded          | 2 1/2                   | PSC  | Totally Enclosed | Rear mounting | 50/60 | 52179990 |

## Whalen

| Item ID        | H.P.      | Volts | RPM  | Amps | Rotation | Shaft Dimension (In.) | Length Less Shaft (In.) | Type | Bearings | Enclosure | Dia. (In.) | Replaces        |
|----------------|-----------|-------|------|------|----------|-----------------------|-------------------------|------|----------|-----------|------------|-----------------|
| <b>Packard</b> |           |       |      |      |          |                       |                         |      |          |           |            |                 |
| 40485          | 1/20-1/35 | 115   | 1050 | 1.0  | CW       | 1/2 x 2 3/4           | 3 1/4                   | PSC  | Sleeve   | Open      | 4.68       | DA3D060 DA3D061 |

## York

| Item ID              | H.P. | Volts   | RPM  | Amps | Speeds | Rotation | Type | Bearings | Enclosure | Replaces                 |               |               |       |
|----------------------|------|---------|------|------|--------|----------|------|----------|-----------|--------------------------|---------------|---------------|-------|
| Fasco                |      |         |      |      |        |          |      |          |           |                          |               |               |       |
| A137                 | 1/25 | 115     | 3450 | 0.70 | 1      | CW       | PSC  | Sleeve   | Open      | 024-25007-000<br>RFB-137 | 024-25007-700 | 024-25057-000 |       |
| A165                 | 1/25 | 115     | 3450 | 0.70 | 1      | CW       | PSC  | Ball     | Open      | 024-25960-000            |               |               |       |
| A223                 | 1/30 | 208-230 | 3200 | 0.64 | 1      | CW       | SP   | Sleeve   | Open      | 026-33999-001            | 7021-10096    | 7021-9656     |       |
| A225                 | 1/15 | 115     | 3200 | 2.25 | 1      | CW       | SP   | Ball     | Open      | 024-34558-000            | 7021-11577    | 7021-11830    | 17503 |
| Packard              |      |         |      |      |        |          |      |          |           |                          |               |               |       |
| <div>NEW</div> 82999 | 1/30 | 208-230 | 3200 | 0.65 | 1      | CW       | SP   | Sleeve   | Open      | 026-33999-001            |               |               |       |





# WE LOVE A GOOD FIXER UPPER.

**ORDER ONLY WHAT YOU NEED**

**FAST SHIPPING**

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Refrigeration repairs come easy with our variety of direct replacement compressors and condensing units. You and your contractors will find the perfect product to accompany very specific applications such as:

- household appliance
- food service, walk-in refrigerators
- bottling and vending
- medical refrigeration equipment

Efficiently replace Tecumseh and Copeland as well as major OEMs with one-for-one ease.

## Residential Heat Pump And AC Reciprocating Compressors



H22J



H22A



Made In USA

### Features

- Single phase and three phase
- Designed for easy drop in installation in air conditioning and heat pump applications
- Quick connect wiring connections
- Direct replacement compressors for OEM applications
- Compressors come with internal high pressure relief valve and internal linebreak motor protection
- Compressors come completely dehydrated, fully oil charged with mounting hardware and terminal cover

| Item ID                     | Refrig | Nominal H.P. | Nominal Volts-Phase-Hertz | Nominal Capacity (Btu) | Foot        | Discharge Size (In.) | Suction Size (In.) | CCH | Tecumseh                  | Replaces Copeland         | Bristol     |
|-----------------------------|--------|--------------|---------------------------|------------------------|-------------|----------------------|--------------------|-----|---------------------------|---------------------------|-------------|
| <b>Bristol R22 Series</b>   |        |              |                           |                        |             |                      |                    |     |                           |                           |             |
| H22J15BABCA                 | R22    | 1 1/4        | 230/208-1-60              | 15000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AW*5515                   | CR16K                     | H29B15UABCA |
| H22J18BABCA                 | R22    | 1 1/2        | 230/208-1-60              | 18000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AW*F5518                  | CR18K                     | H29B18UABCA |
| H2EB18SABCA                 | R22    | 1 1/2        | 230/208-1-60              | 18000                  | 7.5" x 7.5" | 3/8 E                | 5/8 S              | NO  | AW*F5519                  | CR18K                     | H29B18UABCA |
| H2EB18SABCB                 | R22    | 1 1/2        | 230/208-1-60              | 18000                  | 4.8" x 8"   | 3/8 E                | 5/8 E              | NO  | NA (rectangle Foot Mount) | NA (rectangle Foot Mount) | H23B18UABCB |
| H22J22BABCA                 | R22    | 2            | 230/208-1-60              | 22000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AW*5522                   | CR22K                     | H29B22UABCA |
| H2EB223ABCA                 | R22    | 2            | 230/208-1-60              | 22000                  | 7.5" x 7.5" | 3/8 E                | 5/8 S              | NO  | AW*5522                   | CR22K                     | H29B22UABCA |
| H2EB24SABCA                 | R22    | 2            | 230/208-1-60              | 24000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | NO  | AW*5524                   | CR24K                     | H29B24UABCA |
| H2EB24SABCB                 | R22    | 2            | 230/208-1-60              | 24000                  | 4.8" x 8"   | 3/8 E                | 5/8 E              | NO  | NA (rectangle Foot Mount) | NA (rectangle Foot Mount) | H23B24UABCB |
| H22J25BABCA                 | R22    | 2            | 230/208-1-60              | 24800                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AW*5524                   | CR24K                     | H29B24UABCA |
| H2EB28SABCA                 | R22    | 2 1/2        | 230/208-1-60              | 28000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | NO  | AW*5528                   | CR28K                     | H29B28UABCA |
| H2EB283ABCB                 | R22    | 2 1/2        | 230/208-1-60              | 28000                  | 4.8" x 8"   | 3/8 E                | 5/8 E              | NO  | —                         | —                         | H23B28UABCB |
| H22J29BABCA                 | R22    | 2 1/2        | 230/208-1-60              | 29000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | NO  | A*5528                    | CR28K                     | H29B28UABCA |
| H2EB32SABCA                 | R22    | 2 1/2        | 230/208-1-60              | 32000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | NO  | AW*5532                   | CR32K                     | H29B32UABCA |
| H22J33BABCA                 | R22    | 2 1/2        | 230/208-1-60              | 33000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AW*5532                   | CR32K                     | H29B32UABCA |
| H22J36BABCA                 | R22    | 3            | 230/208-1-60              | 36000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5535                   | CR35K, CR36K              | H29B35UABCA |
| H22J38BABCA                 | R22    | 3            | 230/208-1-60              | 38000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5538                   | CR38K                     | H23A383ABCA |
| H22J383DBLA                 | R22    | 3            | 230/200-3-60              | 38000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5538                   | CR38K                     | H23A383DBLA |
| H22J383DBVA                 | R22    | 3            | 460/380-3-60              | 38000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5538                   | CR38K                     | H23A383DBVA |
| H22J413DBEA                 | R22    | 3 1/2        | 460-3-60                  | 41000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5542                   | CR41K                     | H23A413DBEA |
| H22J413DBLA                 | R22    | 3 1/2        | 230/200-3-60              | 41000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5542                   | CR41K                     | H23A413DBLA |
| H22J41BABCA                 | R22    | 3 1/2        | 230/208-1-60              | 41000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5542                   | CR41K                     | H23A413ABCA |
| H22J443DBDA                 | R22    | 4            | 230/208-3-60              | 44000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5546                   | CR47K                     | H23A463DBLA |
| H22J443DBEA                 | R22    | 4            | 460-3-60                  | 44000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5546                   | CR47K                     | H23A463DBEA |
| H22J44BABCA                 | R22    | 4            | 230/208-1-60              | 44000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | AV*5546                   | CR47K                     | H23A463ABCA |
| H22A503ABCA                 | R22    | 4            | 230/208-1-60              | 50000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | —                         | —                         | —           |
| H22A543ABCA                 | R22    | 4 1/2        | 230/208-1-60              | 54000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5555                   | CR53K                     | H23A543ABCA |
| H22A543DBEA                 | R22    | 4 1/2        | 460-3-60                  | 54000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5555                   | CR53K                     | H23A543DBEA |
| H22A543DBLA                 | R22    | 4 1/2        | 230/200-3-60              | 54000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5555                   | CR53K                     | H23A543DBLA |
| H22A563DBLA                 | R22    | 5            | 230/208-3-60              | 56000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | —                         | —           |
| H22A583ABCA                 | R22    | 5            | 230/208-1-60              | 58000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | CRP5-0450                 | H23A563ABCA |
| H22A583DBEA                 | R22    | 5            | 460-3-60                  | 58000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | CRN5-0500                 | H23A563DBEA |
| H22A623ABCA                 | R22    | 5            | 230/208-1-60              | 62000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | CR60K                     | H23A623ABCA |
| H22A623DBEA                 | R22    | 5            | 460-3-60                  | 62000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | CR60K                     | H23A623DBEA |
| H22A623DBLA                 | R22    | 5            | 230/200-3-60              | 62000                  | 7.5" x 7.5" | 1/2 E                | 7/8 S              | YES | AV*5558                   | CR60K                     | H23A623DBLA |
| H29A723DBLA                 | R22    | 6            | 230/200-3-60              | 72000                  | 7.5" x 7.5" | 1/2 E                | 7/8 E              | YES | —                         | —                         | —           |
| <b>Bristol R410A Series</b> |        |              |                           |                        |             |                      |                    |     |                           |                           |             |
| H82J18BABCA                 | R410A  | 1 1/2        | 230/208-1-60              | 18000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | —                         | H8*J18*ABCA |
| H82J22BABCA                 | R410A  | 2            | 230/208-1-60              | 22000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | CP12K8E-PFV               | H8*J22*ABCA |
| H82J28BABCA                 | R410A  | 2 1/2        | 230/208-1-60              | 28000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | CP18K8E-PFV               | H8*J28*ABCA |
| H82J32BABCA                 | R410A  | 3            | 230/208-1-60              | 32000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | CP18K8E-PFV               | H8*J31*ABCA |
| H82J40BABCA                 | R410A  | 3 1/2        | 230/208-1-60              | 40000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | CP25K8E-PFV               | H8*J38*ABCA |
| H82J50BABCA                 | R410A  | 4            | 230/208-1-60              | 50000                  | 7.5" x 7.5" | 1/2 E                | 3/4 S              | YES | —                         | —                         | H8*J50*ABCA |

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

## Bristol HCR Series Compressors



### Features

- Approved for R407C and R22
- Exact tubing and mounting configuration as Copeland CR series
- Wiring Harness with plug included
- Charged with POE oil

| Item ID                   | Refrigerant | Nominal H.P. | Voltage      | Capacity (Btu) | Foot Mount | Discharge | Suction | CCH | Replaces   |
|---------------------------|-------------|--------------|--------------|----------------|------------|-----------|---------|-----|------------|
| <b>Bristol R22, R407C</b> |             |              |              |                |            |           |         |     |            |
| HCRB183ABCA               | R407C/R22   | 1 1/2        | 230/208-1-60 | 18000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes | CR18K6-PFV |
| HCRB243ABCA               | R407C/R22   | 2            | 230/208-1-60 | 24000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes | CR24K6-PFV |
| HCRB283ABCA               | R407C/R22   | 2 1/2        | 230/208-1-60 | 28000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes | CR28K6-PFV |
| HCRB303ABCA               | R407C/R22   | 2 3/4        | 230/208-1-60 | 30000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes | CR30K6-PFV |
| HCRB353ABCA               | R407C/R22   | 3            | 230/208-1-60 | 35000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes | CR35K6-PFV |

## Bristol H7 Series Compressors



### Features

- Approved for R407C and R22
- Lower replacement cost
- Easy change out
- Single phase and 3 phase

| Item ID                   | Refrigerant | Nominal H.P. | Voltage      | Capacity (Btu) | Foot Mount | Discharge | Suction | CCH |
|---------------------------|-------------|--------------|--------------|----------------|------------|-----------|---------|-----|
| <b>Bristol R22, R407C</b> |             |              |              |                |            |           |         |     |
| H79B18UABCA               | R407C/R22   | 1 1/2        | 230/208-1-60 | 18000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H79B22UABCA               | R407C/R22   | 2            | 230/208-1-60 | 22000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H79B28UABCA               | R407C/R22   | 2 1/2        | 230/208-1-60 | 28000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H79B35UABCA               | R407C/R22   | 3            | 230/208-1-60 | 35000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H73A423ABCA               | R407C/R22   | 3 1/2        | 230/208-1-60 | 42000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H71J443ABCA               | R407C/R22   | 4            | 230/208-1-60 | 44000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H73A563ABCA               | R407C/R22   | 5            | 230/208-1-60 | 56000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H73A563DBEA               | R407C/R22   | 5            | 460-3-60     | 56000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |
| H73A563DBLA               | R407C/R22   | 5            | 230/208-3-60 | 56000          | 7.5 x 7.5  | 1/2 E     | 3/4 S   | Yes |



## Residential Heat Pump And AC Scroll Compressors



Made In USA



### Features

- High-quality, quiet, and easy to install replacement solution for scroll compressors
- Universal replacement for air conditioning and heat pump applications
- Same 7.5 square bolt pattern with similar suction/discharge connection heights as Copeland
- Lighter and quieter with 30% fewer parts than Copeland
- Unloaded scroll set eliminates the need for start capacitor
- Superior thermal fault protection (blocked TXV, loss of charge, etc)

| Item ID                     | Refrig | Nominal H.P. | Volts-Phase-Hertz | Capacity (Btu) | Discharge Size (In.) | Suction Size (In.) | Replaces    |          |
|-----------------------------|--------|--------------|-------------------|----------------|----------------------|--------------------|-------------|----------|
|                             |        |              |                   |                |                      |                    | Copeland    | Carlyle  |
| <b>Danfoss R22 Series</b>   |        |              |                   |                |                      |                    |             |          |
| HRM025T1LP6                 | R22    | 2            | 208-230-1-60      | 25000          | 1/2 ODF              | 3/4 ODF            | ZR26***-*** | XCD250AA |
| HRM032U1LP6                 | R22    | 2 3/4        | 208-230-1-60      | 32000          | 1/2 ODF              | 3/4 ODF            | ZR32***-*** | XCD320HA |
| HRM034U1LP6                 | R22    | 3            | 208-230-1-60      | 34000          | 1/2 ODF              | 3/4 ODF            | ZR34***-*** | XCD340HA |
| HRM038U1LP6                 | R22    | 3            | 208-230-1-60      | 38000          | 1/2 ODF              | 3/4 ODF            | ZR36***-*** | XCD380HA |
| HRM034U2LP6 *               | R22    | 3            | 208-230-3-60      | 34000          | 1/2 ODF              | 3/4 ODF            | ZR34***-*** | XCY342HA |
| HRM038U2LP6                 | R22    | 3            | 208-230-3-60      | 38000          | 1/2 ODF              | 3/4 ODF            | ZR36***-*** | XCY382HA |
| HRM034U4LP6 *               | R22    | 3            | 460-3-60 400-3-50 | 34000          | 1/2 ODF              | 3/4 ODF            | ZR34***-*** | XCH342HA |
| HRM038U4LP6                 | R22    | 3            | 460-3-60 400-3-50 | 38000          | 1/2 ODF              | 3/4 ODF            | ZR36***-*** | XCH382HA |
| HRM042U1LP6                 | R22    | 3 1/2        | 208-230-1-60      | 42000          | 1/2 ODF              | 3/4 ODF            | ZR42***-*** | XCD420HA |
| HRM042U2LP6                 | R22    | 3 1/2        | 208-230-3-60      | 42000          | 1/2 ODF              | 3/4 ODF            | ZR42***-*** | XCY422HA |
| HRM042U4LP6 *               | R22    | 3 1/2        | 460-3-60 400-3-50 | 42000          | 1/2 ODF              | 3/4 ODF            | ZR42***-*** | XCH422HA |
| HRM047U1LP6                 | R22    | 4            | 208-230-1-60      | 47000          | 1/2 ODF              | 7/8 ODF            | ZR47***-*** | XCD470HA |
| HRM047U2LP6                 | R22    | 4            | 208-230-3-60      | 47000          | 1/2 ODF              | 7/8 ODF            | ZR47***-*** | XCY472HA |
| HRM047U4LP6                 | R22    | 4            | 460-3-60 400-3-50 | 47000          | 1/2 ODF              | 7/8 ODF            | ZR47***-*** | XCH472HA |
| HRM054U1LP6                 | R22    | 4 1/2        | 208-230-1-60      | 54000          | 1/2 ODF              | 7/8 ODF            | ZR54***-*** | XRD540HA |
| HRM054U2LP6                 | R22    | 4 1/2        | 208-230-3-60      | 54000          | 1/2 ODF              | 7/8 ODF            | ZR54***-*** | XRY542HA |
| HRM054U4LP6                 | R22    | 4 1/2        | 460-3-60 400-3-50 | 54000          | 1/2 ODF              | 7/8 ODF            | ZR54***-*** | XRH542HA |
| HRM058U1LP6                 | R22    | 4 3/4        | 208-230-1-60      | 58000          | 1/2 ODF              | 7/8 ODF            | ZR57***-*** | XRD580HA |
| HRM058U2LP6                 | R22    | 4 3/4        | 208-230-3-60      | 58000          | 1/2 ODF              | 7/8 ODF            | ZR57***-*** | XRY582HA |
| HRM058U4LP6                 | R22    | 4 3/4        | 460-3-60 400-3-50 | 58000          | 1/2 ODF              | 7/8 ODF            | ZR57***-*** | XRH582HA |
| HRM060U1LP6                 | R22    | 5            | 208-230-1-60      | 60000          | 1/2 ODF              | 7/8 ODF            | ZR61***-*** | XRD600HA |
| HRM060U2LP6                 | R22    | 5            | 208-230-3-60      | 60000          | 1/2 ODF              | 7/8 ODF            | ZR61***-*** | XRY602HA |
| HRM060U4LP6                 | R22    | 5            | 460-3-60 400-3-50 | 60000          | 1/2 ODF              | 7/8 ODF            | ZR61***-*** | XRH602HA |
| <b>Danfoss R410A Series</b> |        |              |                   |                |                      |                    |             |          |
| HRH029U1LP6 *               | R410A  | 2 1/2        | 208-230-1-60      | 29000          | 1/2 ODF              | 3/4 ODF            | ZP29***-*** | XGD290HA |
| HRH034U1LP6 *               | R410A  | 2 3/4        | 208-230-1-60      | 34000          | 1/2 ODF              | 3/4 ODF            | ZP34***-*** | XGD340HA |
| HRH036U1LP6 *               | R410A  | 2 3/4        | 208-230-1-60      | 36000          | 1/2 ODF              | 3/4 ODF            | ZP36***-*** | XGD360HA |
| HRH038U1LP6 *               | R410A  | 3 1/4        | 208-230-1-60      | 38000          | 1/2 ODF              | 3/4 ODF            | ZP38***-*** | XGD380HA |
| HRH038U2LP6 *               | R410A  | 3 1/4        | 208-230-3-60      | 38000          | 1/2 ODF              | 3/4 ODF            | ZP38***-*** | XGY382HA |
| HRH044U1LP6 *               | R410A  | 3 3/4        | 208-230-1-60      | 44000          | 1/2 ODF              | 7/8 ODF            | ZP44***-*** | XND440HA |
| HRH044U2LP6 *               | R410A  | 3 3/4        | 208-230-3-60      | 44000          | 1/2 ODF              | 7/8 ODF            | ZP44***-*** | XNY442HA |
| HRH044U4LP6 *               | R410A  | 3 3/4        | 460-3-60 400-3-50 | 44000          | 1/2 ODF              | 7/8 ODF            | ZP44***-*** | XNH442HA |
| HRH051U1LP6 *               | R410A  | 4 1/4        | 208-230-1-60      | 51000          | 1/2 ODF              | 7/8 ODF            | ZP50***-*** | XND510HA |
| HRH051U2LP6 *               | R410A  | 4 1/4        | 208-230-3-60      | 51000          | 1/2 ODF              | 7/8 ODF            | ZP50***-*** | XNY512HA |
| HRH051U4LP6 *               | R410A  | 4 3/4        | 460-3-60 400-3-50 | 51000          | 1/2 ODF              | 7/8 ODF            | ZP50***-*** | XNH512HA |
| HRH056U1LP6 *               | R410A  | 4 3/4        | 208-230-1-60      | 56000          | 1/2 ODF              | 7/8 ODF            | ZP57***-*** | XND560HA |
| HRH056U2LP6 *               | R410A  | 4 3/4        | 208-230-3-60      | 56000          | 1/2 ODF              | 7/8 ODF            | ZP57***-*** | XNY562HA |
| HRH056U4LC6 *               | R410A  | 4 3/4        | 460-3-60 400-3-50 | 56000          | 1/2 ODF              | 7/8 ODF            | ZP57***-*** | XNH562HE |
| HLH061T1LP6 *               | R410A  | 5            | 208-230-1-60      | 61000          | 1/2 ODF              | 7/8 ODF            | ZP61***-*** | XND610HA |
| HLH061T2LC6 *               | R410A  | 5            | 208-230-3-60      | 61000          | 1/2 ODF              | 7/8 ODF            | ZP61***-*** | XNY612HE |
| HLH061T4LC6 *               | R410A  | 5            | 460-3-60 400-3-50 | 61000          | 1/2 ODF              | 7/8 ODF            | ZP61***-*** | XNH612HE |

Notes: \* Please call for availability.

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.



## Refrigeration Compressors



Bristol



Danfoss



Embraco

### Features

- Triple duty compressors that may be used in low, medium and high temperature applications
- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- R92J Multi Refrigerant Series Direct replacements for Tecumseh, Copeland fractional and R Series compressors
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment manufactures

| Item ID               | Brand   | Nominal<br>H.P. | Volts-Phase-<br>Hertz | LT @<br>-10°F | BTU          | HT @  | Foot         | Discharge<br>Size (In.) | Suction<br>Size (In.) | Replaces                 |                                          |
|-----------------------|---------|-----------------|-----------------------|---------------|--------------|-------|--------------|-------------------------|-----------------------|--------------------------|------------------------------------------|
|                       |         |                 |                       |               | MT @<br>20°F | 45°F  |              |                         |                       | Tecumseh                 | Copeland                                 |
| R12 Blend             |         |                 |                       |               |              |       |              |                         |                       |                          |                                          |
| FF8.5BK1              | Embraco | 1/5             | 115-1-60              | 850           | 1759         | 3080  | 5.5" x 7"    | 0.256ID                 | 0.256ID               | AEA3430AXA               | —                                        |
| FF10BK1               | Embraco | 1/4             | 115-1-60              | 915           | 1908         | 3240  | 5.5" x 7"    | 0.256ID                 | 0.256ID               | AEA3430AXA               | —                                        |
| FF11.5BK1             | Embraco | 1/4             | 115-1-60              | 1130          | 1893         | 4000  | 5.5" x 7"    | 0.256ID                 | 0.256ID               | —                        | —                                        |
| FFI12BX1              | Embraco | 1/3             | 115-1-60              | 1350          | 2142         | 4838  | 5.5" x 7"    | 0.256ID                 | 0.256ID               | AEA4440AXA               | ARE41C3-IAA (HST)<br>JFB1-0033-IAA (HST) |
| L1NB262EBAB           | Bristol | —               | 115-1-60              | 2400          | —            | —     | 4.8" x 8"    | 3/8 E                   | 5/8 E                 | —                        | —                                        |
| L1NB262EBCB           | Bristol | —               | 230/208-1-60          | 2400          | —            | —     | 4.8" x 8"    | 3/8 E                   | 5/8 E                 | —                        | —                                        |
| R134A                 |         |                 |                       |               |              |       |              |                         |                       |                          |                                          |
| EMIS30HHR1            | Embraco | 1/10            | 115-1-60              | 340           | 950          | 1480  | 4" x 6.5"    | 0.256ID                 | 0.256ID               | AEA0335YXA               | —                                        |
| EM45HHR1              | Embraco | 1/8             | 115-1-60              | 420           | 1053         | 1775  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AZA0350YXA               | —                                        |
| EMI55HER1             | Embraco | 1/6             | 115-1-60              | 510           | —            | —     | 4" x 6.69"   | 0.256ID                 | 0.256ID               | THG1358YXA               | —                                        |
| FF7.5HBK1             | Embraco | 1/5             | 115-1-60              | 630           | 1622         | 2760  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AEA1360YXA<br>AEA3425YXA | ARB13C3E-SAA                             |
| FF8.5HBK1             | Embraco | 1/4             | 115-1-60              | 740           | 1745         | 3135  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AEA3430YXA               | AF05C1E-SAA (LST)                        |
| FF8.5HBK1C            | Embraco | 1/4             | 115-1-60              | 740           | 1745         | 3135  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AEA4430YXA               | ARE27C3E-IAA                             |
| FF10HBK1              | Embraco | 1/4+            | 115-1-60              | 840           | 1995         | 3530  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | —                        | —                                        |
| FFI10HBX1             | Embraco | 1/3             | 115-1-60              | 1065          | 2038         | 4400  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AEA4440YXA<br>AEA3440YXA | ARE37C3E-IAA                             |
| FFI12HBX1             | Embraco | 1/3+            | 115-1-60              | 1190          | 2886         | 5300  | 4" x 6.69"   | 0.256ID                 | 0.256ID               | AEA4448YXA               | ARE41C3E-IAA                             |
| NE2134Z1              | Embraco | 1/2             | 115-1-60              | 1452          | —            | —     | 4" x 6.69"   | 0.25ID                  | 0.38ID                | AEA2413YXA               | AFE12C3E-IAA                             |
| NT6215Z1              | Embraco | 1/2+            | 115-1-60              | —             | 3705         | 6626  | 4.5" x 7"    | 0.25ID                  | 0.38ID                | AKA4460YXA               | RRT62C1-IAA                              |
| NT6217Z1              | Embraco | 3/4             | 115-1-60              | —             | 3909         | 7638  | 4.5" x 7"    | 0.25ID                  |                       | AKA4476YXA               | ART64C1E-IAA                             |
| T6217Z2<br>(NT6217Z2) | Embraco | 3/4             | 230-1-60              | —             | 3909         | 7490  | 4.5" x 7"    | 0.25ID                  | 0.38ID                | AKA4460YXD               | ART64C1E-IAV                             |
| NJ6220Z1              | Embraco | 1               | 115-1-60              | —             | —            | 10169 | 4.8" x 9.25" | 0.25ID                  | 0.38ID                | —                        | AR84C1E-IAA                              |
| NJ6220Z2              | Embraco | 1               | 230-1-60              | —             | —            | 10169 | 4.8" x 9.25" | 0.25ID                  | 0.38ID                | —                        | ART64C1E-IAZ                             |
| NJ6226Z2              | Embraco | 1 1/4           | 230-1-60              | —             | 6583         | 11130 | 4.8" x 9.25" | 0.25ID                  | 0.38ID                | AJA4512YXD               | CS10K6E-PFV                              |

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## Refrigeration Compressors



Bristol



Danfoss



Embraco

### Features

- Triple duty compressors that may be used in low, medium and high temperature applications
- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- L1NB Series for ultra low temperature applications
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment manufactures

| Item ID                 | Brand   | Nominal<br>H.P. | Volts-Phase-<br>Hertz | LT @<br>-10°F | BTU          |              | Foot         | Discharge<br>Size (In.) | Suction<br>Size (In.) | Replaces                 |                |
|-------------------------|---------|-----------------|-----------------------|---------------|--------------|--------------|--------------|-------------------------|-----------------------|--------------------------|----------------|
|                         |         |                 |                       |               | MT @<br>20°F | HT @<br>45°F |              |                         |                       | Tecumseh                 | Copeland       |
| R404A                   |         |                 |                       |               |              |              |              |                         |                       |                          |                |
| TF4CLX                  | Danfoss | 1/5             | 115-1-60              | 776           | 1603         | —            | 4" x 6.7"    | 0.205ID                 | 0.25ID                | —                        | —              |
| TFS4.5CLX               | Danfoss | 1/4             | 115-1-60              | 1010          | —            | —            | 4" x 6.7"    | 0.205ID                 | 0.25ID                | AEA2380ZXA               | —              |
| NF5.5CLX                | Danfoss | 1/3             | 115-1-60              | 1376          | 2723         | —            | 4" x 6.7"    | 0.25ID                  | 0.32ID                | AEA9415ZXA<br>AEA9422ZXA | —              |
| NEK2125GK1              | Embraco | 1/3             | 115-1-60              | 1455          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AEA2411ZXA               | AFE11C4E-IAA   |
| NF7CLX                  | Danfoss | 1/3+            | 115-1-60              | 1716          | 3451         | —            | 4" x 6.7"    | 0.25ID                  | 0.32ID                | AEA2411ZXA<br>AKA9427ZXA | —              |
| SC12CLX.2               | Danfoss | 1/3+            | 115-1-60              | 2706          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.32ID                | AJA2419ZXA               | AFT1840C1E-IAA |
| NEK2134GK1              | Embraco | 1/2             | 115-1-60              | 1947          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2419ZXA               | AFE13C4E-IAA   |
| NEK2150GK1              | Embraco | 1/2+            | 115-1-60              | 2493          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2425ZXA               | AFE17C4E-IAA   |
| NT2168GKV<br>(T2168GK1) | Embraco | 3/4             | 115-1-60              | 3008          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2425ZXA               | AFT22C1E-IAA   |
| T2168GK2<br>(NT2168GK2) | Embraco | 3/4             | 230-1-60              | 3008          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2425ZXD               | AFT22C1E-CAV   |
| SC15CLX.2-115VT         | Danfoss | 3/4             | 115-1-60              | 3375          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2425ZXA               | AFT22C1E-IAA   |
| 195B0464                | Danfoss | 1               | 115-1-60              | 3867          | —            | —            | 4" x 6.7"    | 0.25ID                  | 0.38ID                | AJA2425ZXA               | AFT26C1E-CAV   |
| NT2180GKV2              | Embraco | 1               | 230-1-60              | 3872          | —            | —            | 4.5" x 7"    | 0.25ID                  | 0.38ID                | AJA2425ZXD               | AFT296C1E-CFV  |
| NJ2192GK2               | Embraco | 1 1/4           | 230-1-60              | 4502          | —            | —            | 4.8" x 9.25" | 0.25ID                  | 0.38ID                | AJA2444ZXD               | AFJ31C2E-CFV   |
| NT2212GKV2              | Embraco | 1 1/2           | 230-1-60              | 5710          | —            | —            | 4.8" x 9.25" | 0.25ID                  | 0.38ID                | AWA2460ZXD               | RS86C1E-PFV    |
| L63A113BBCA             | Bristol | —               | 230/208-1-60          | 10600         | —            | —            | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| L63A113DBLA             | Bristol | —               | 230/200-3-60          | 10600         | —            | —            | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| L63A183BBCA             | Bristol | —               | 230/208-1-60          | 18000         | —            | —            | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| L63A183DBDA             | Bristol | —               | 230/208-3-60          | 18000         | —            | —            | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| R22, R404A, R407C       |         |                 |                       |               |              |              |              |                         |                       |                          |                |
| R92J223ABCA             | Bristol | —               | 230/208-1-60          | 23634         | 10780        | 20300        | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| R92J343DBVA             | Bristol | —               | 460/380-3-60          | 34100         | 17400        | 33300        | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| R92J433ABCA             | Bristol | —               | 230/208-1-60          | 43640         | 23100        | 39700        | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| R92J433DBLA             | Bristol | —               | 230/200-3-60          | 43270         | 23300        | 40100        | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |
| R92J433DBVA             | Bristol | —               | 460/380-3-60          | 42900         | 23200        | 39700        | 7.5" x 7.5"  | 1/2 E                   | 3/4 E                 | —                        | —              |

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## Refrigeration Fractional Condensing Units



### Features

- Broad range of fractional condensing units from 1/4 HP to 1 HP
- Designed for specific applications
- High ambient coil designs
- Quality components selected for longer life and reduced warranty costs

| Item ID         | Brand   | Nominal<br>H.P. | Volts-Phase-<br>Hertz | LT @<br>-10°F | BTU<br>MT @<br>10°F | HT @<br>45°F | Version<br>Includes                | Replaces     |           |
|-----------------|---------|-----------------|-----------------------|---------------|---------------------|--------------|------------------------------------|--------------|-----------|
|                 |         |                 |                       |               |                     |              |                                    | Tecumseh     | Copeland  |
| R134A           |         |                 |                       |               |                     |              |                                    |              |           |
| UF10HBX1        | Embraco | 1/4             | 115-1-60              | 840           | 1995                | 3530         | Power cord                         | AEA4430      | M2FH-0026 |
| UF112HBX1-R     | Embraco | 1/3             | 115-1-60              | 1190          | 2886                | 5300         | Power cord, Receiver               | AEA4440YXAXC | M2FH-A033 |
| UCGC0017RWA000B | Danfoss | 1/6             | 115-1-60              | —             | 1007                | 1492         | Power cord                         | AEA3414      | M2FH0017  |
| UCGC0020RWA000B | Danfoss | 1/5             | 115-1-60              | —             | 1860                | 2699         | Power cord                         | AEA3417      | M2FH0020  |
| UCGC0025RWB000B | Danfoss | 1/4             | 115-1-60              | —             | 2085                | 3029         | Power cord, Receiver               | AEA4430      | M2FH0026  |
| HCGC0033RWC000B | Danfoss | 1/3             | 115-1-60              | —             | 2717                | 3986         | BX, Receiver                       | —            | —         |
| UT6215ZC1-R     | Embraco | 1/2             | 115-1-60              | —             | 3705                | 6626         | BX, Receiver                       | AKA4460YXAXC | M2FH-0050 |
| UT6217Z1-R      | Embraco | 3/4             | 115-1-60              | —             | 3909                | 7490         | BX, Receiver                       | AKA7437YXAXC | —         |
| UCGC0050RWC000B | Danfoss | 1/2             | 115-1-60              | —             | 4264                | 6249         | BX, Receiver                       | AKA4460      | M2FH0049  |
| HCGC0055RWC000B | Danfoss | 5/8             | 115-1-60              | —             | 5009                | 7374         | BX, Receiver                       | AKA4476      | M2FH0056  |
| HCGC0075RWC000B | Danfoss | 3/4             | 115-1-60              | —             | 7325                | 11052        | BX, Receiver                       | AJA4492      | FTAHA074  |
| HCGC0075RWC000N | Danfoss | 3/4             | 230-1-60              | —             | 7325                | 11052        | BX, Receiver                       | AJA4492      | FTAHA074  |
| R22             |         |                 |                       |               |                     |              |                                    |              |           |
| HCMC0025RWB000B | Danfoss | 1/4             | 115-1-60              | —             | 3009                | 3029         | Power cord, Receiver               | AEA9417      | MMFH0022  |
| HCMC0033RWC000B | Danfoss | 1/3             | 115-1-60              | —             | 3509                | 3986         | BX, receiver                       | AKA9433      | MCDH0036  |
| HCMC0050RWC000B | Danfoss | 1/2             | 115-1-60              | —             | 5044                | 6249         | BX, receiver                       | AKA9446      | MCFH0049  |
| HCMC0075UWC000N | Danfoss | 3/4             | 230-1-60              | —             | 6600                | 11052        | BX, receiver                       | —            | —         |
| HCMC0100UWD000N | Danfoss | 1               | 230-1-60              | —             | 7210                | 13417        | BX, receiver, low pressure control | —            | —         |
| R404A           |         |                 |                       |               |                     |              |                                    |              |           |
| UCHC0025RWA000B | Danfoss | 1/4             | 115-1-60              | 1303          | 2634                | 1635         | Power Cord                         | AEA9422      | M4FH0025  |
| UCHC0033RWC000B | Danfoss | 1/3             | 115-1-60              | 1577          | 3188                | 4340         | BX, Receiver                       | AKA9429      | M4FHA036  |
| UCHC0050RWC000B | Danfoss | 1/2             | 115-1-60              | 1959          | 4279                | 6030         | BX, Receiver                       | AKA9440      | M4FH0050  |
| UCHC0050RWC000N | Danfoss | 1/2             | 230-1-60              | 1959          | 4279                | 6030         | BX, Receiver                       | AKA9440      | M4FH0050  |
| UNE2134GKC1-R   | Embraco | 1/2             | 115-1-60              | 1947          | —                   | —            | BX, receiver                       | AJA2429      | VJAL050Z  |
| HCHC0060RWC000N | Danfoss | 5/8             | 230-1-60              | —             | 5427                | 7634         | BX, receiver                       | —            | FJAFA056  |
| LCHC0060RWC000B | Danfoss | 5/8             | 115-1-60              | 2941          | —                   | —            | BX, receiver                       | AJA2429      | M4FL0051  |
| LCHC0060RWC000N | Danfoss | 5/8             | 230-1-60              | 2941          | —                   | —            | BX, receiver                       | AJA2429      | M4FL0051  |
| UT2178GKC1-R    | Embraco | 3/4             | 115-1-60              | 3112          | —                   | —            | BX, receiver                       | —            | M4FL0067  |
| UT2178GKC2-R    | Embraco | 3/4             | 230-1-60              | 3112          | —                   | —            | BX, receiver                       | —            | M4FL0067  |
| HCHC0075UWC000B | Danfoss | 3/4             | 115-1-60              | —             | 7693                | 10759        | BX, Receiver                       | AJA7465      | FTAHA0074 |
| HCHC0075UWC000N | Danfoss | 3/4             | 230-1-60              | —             | 7693                | 10759        | BX, Receiver                       | AJA7465      | FTAHA0074 |
| LCHC0075RWC000N | Danfoss | 3/4+            | 230-1-60              | 3460          | —                   | —            | BX, receiver                       | —            | M4FL0067  |
| HCHC0100UWD000N | Danfoss | 1               | 230-1-60              | —             | 9042                | 11829        | BX, receiver, low pressure control | —            | —         |
| LCHC0100UWD000N | Danfoss | 1               | 230-1-60              | 5329          | —                   | —            | BX, receiver, low pressure control | AWA2448      | FJALA100  |

Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.

\*Please call for availability

## Refrigeration Integral Condensing Units

### Features

- Broad range of condensing units from 1 1/2 HP to 13 1/2 HP
- Designed for specific applications
- High ambient coil designs
- Quality components selected for longer life and reduced warranty costs
- WF version includes: BX, receiver, dual pressure control, fan cycling control, dual fan units larger than 3 HP use KPU fan cycling control, filter drier, sight glass, solenoid valve with coil.



| Item ID         | Brand   | Nominal H.P. | Volts-Phase-Hertz              | LT @ -10°F | BTU MT @ 25°F | HT @ 45°F | Version Includes   | Replaces Tecumseh | Copeland                                                   |
|-----------------|---------|--------------|--------------------------------|------------|---------------|-----------|--------------------|-------------------|------------------------------------------------------------|
| <b>R404A</b>    |         |              |                                |            |               |           |                    |                   |                                                            |
| UNJ2212GK1-R    | Embraco | 1 1/2        | 115-1-60                       | 6384       | —             | —         | BX, receiver       | AWA2464ZX         | —                                                          |
| UNJ2212GK2-R    | Embraco | 1 1/2        | 230-1-60                       | 6384       | —             | —         | BX, receiver       | AWA2464ZX         | —                                                          |
| LCZC0151UWF300N | Danfoss | 1 1/2        | 230-1-60                       | 7759       | —             | —         | WF                 | —                 | —                                                          |
| HCZC0150UWF300N | Danfoss | 1 1/2        | 230-1-60                       | —          | 11535         | 17484     | See Features<br>WF | AWA7512           | FJAMA125<br>FJAMA126<br>FJAMA150                           |
| HCZC0150UWF300Q | Danfoss | 1 1/2        | 208-230-3-60Fan(s)<br>230-1-60 | —          | 11535         | 17484     | See Features<br>WF | AWA7512           | FJAMA125<br>FJAMA126<br>FJAMA150                           |
| LCZC0201UWF300N | Danfoss | 2            | 230-1-60                       | 11021      | —             | —         | WF                 | —                 | —                                                          |
| LCZC0201UWF300Q | Danfoss | 2            | 208-230-3-60Fan(s)<br>230-1-60 | 11021      | —             | —         | See Features<br>WF | —                 | —                                                          |
| HCZC0200UWF300N | Danfoss | 2            | 230-1-60                       | —          | 16344         | 24528     | See Features<br>WF | AWA7515           | VJAF017H<br>FJAMA200                                       |
| HCZC0200UWF300Q | Danfoss | 2            | 208-230-3-60Fan(s)<br>230-1-60 | —          | 16344         | 24528     | See Features<br>WF | AWA7515           | VJAF017H<br>FJAMA200                                       |
| HCZC0250UWF300N | Danfoss | 2 1/2        | 230-1-60                       | —          | 19974         | 28532     | See Features<br>WF | —                 | —                                                          |
| HCZC0250UWF300Q | Danfoss | 2 1/2        | 208-230-3-60Fan(s)<br>230-1-60 | —          | 28070         | 28532     | See Features<br>WF | —                 | —                                                          |
| HCZC0275UWF300N | Danfoss | 2 3/4        | 230-1-60                       | —          | 23738         | 33558     | See Features<br>WF | —                 | VJAF025H                                                   |
| HCZC0275UWF300Q | Danfoss | 2 3/4        | 208-230-3-60Fan(s)<br>230-1-60 | —          | 23738         | 33558     | See Features<br>WF | —                 | VJAF025H                                                   |
| LCZC0301UWF300N | Danfoss | 3            | 230-1-60                       | 16239      | —             | —         | See Features<br>WF | —                 | —                                                          |
| LCZC0301UWF300Q | Danfoss | 3            | 208-230-3-60Fan(s)<br>230-1-60 | 16239      | —             | —         | See Features<br>WF | —                 | —                                                          |
| HCZC0300UWF300N | Danfoss | 3            | 230-1-60                       | —          | 27206         | 38283     | See Features<br>WF | AVA7523           | FJAMA300<br>VJAF030H<br>FJAMA325                           |
| HCZC0300UWF300Q | Danfoss | 3            | 208-230-3-60Fan(s)<br>230-1-60 | —          | 27206         | 38283     | See Features<br>WF | AVA7523           | FJAMA300<br>VJAF030H<br>FJAMA325                           |
| LGZC0401UWF300N | Danfoss | 4            | 230-1-60                       | 20792      | —             | —         | WF                 | —                 | —                                                          |
| LGZC0401UWF300Q | Danfoss | 4            | 208-230-3-60Fan(s)<br>230-1-60 | 20792      | —             | —         | See Features<br>WF | —                 | —                                                          |
| HGZC0400UWF300N | Danfoss | 4            | 230-1-60                       | —          | 36521         | 53103     | See Features<br>WF | —                 | VJAF035Z*<br>VJAF035H                                      |
| HGZC0400UWF300Q | Danfoss | 4            | 208-230-3-60Fan(s)<br>230-1-60 | —          | 36521         | 53103     | See Features<br>WF | —                 | VJAF035Z*<br>VJAF035H                                      |
| HGZC0500UWF300N | Danfoss | 5            | 230-1-60                       | —          | 45339         | 64640     | See Features<br>WF | —                 | FJAMB400<br>VJAF040Z*<br>VJAF040H<br>FJAMB500<br>VJAF050Z* |
| HGZC0500UWF300Q | Danfoss | 5            | 208-230-3-60Fan(s)<br>230-1-60 | —          | 45339         | 64640     | See Features<br>WF | —                 | FJAMB400<br>VJAF040Z*<br>VJAF040H<br>FJAMB500<br>VJAF050Z* |

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\*Please call for availability



IT'S THE SMALL THINGS THAT CAN  
MAKE A BIG DIFFERENCE.

Need from Packard:

- Pressure and temperature controls
- Valves
- Refrigeration mounting hardware
- TorqStart
- Air conditioning & refrigeration  
driers

TAKE NOTE: PACKARD CARRIES ALL THE SMALL PARTS TO COMPLEMENT YOUR BIG PURCHASES.

We are not just your motor and compressor source. We carry a full line of high quality line components from top industry brands allowing you to complete your purchases on one P.O.

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**TERM-LOK**

*Danfoss*

**TUTCO**  
HEATING SOLUTIONS GROUP

*Packard*

**ZSI**

**Parker**

See pages 73-87 for our full line component selection.

### Bristol Compressor Installation Kits



VIEW COMPLETE BOM

#### Features

- Everything you need to install Bristol compressors in one handy box
- Reduce and organize your inventory at one time
- High quality components for superior performance and reduced call backs
- Each Kit Contains three fan capacitors, one compressor (hermetic) capacitor, contactor, filter drier, acid test, wiring harness and assorted copper fittings

| Item ID                                 | COMPKIT1                                  |
|-----------------------------------------|-------------------------------------------|
| Tons                                    | 1 1/2                                     |
| For Use With Bristol Compressor Model # | H2EB18SABCA<br>H2EB18SABCB<br>H2EB223ABCA |

| Item ID                                 | COMPKIT2                                  |
|-----------------------------------------|-------------------------------------------|
| Tons                                    | 2                                         |
| For Use With Bristol Compressor Model # | H22J22BABCA<br>H2EB24SABCA<br>H2EB24SABCB |

| Item ID                                 | COMPKIT3                   |
|-----------------------------------------|----------------------------|
| Tons                                    | 1 1/4 to 1 1/2             |
| For Use With Bristol Compressor Model # | H22J15BABCA<br>H22J18BABCA |

| Item ID                                 | COMPKIT4                   |
|-----------------------------------------|----------------------------|
| Tons                                    | 2 to 2 1/2                 |
| For Use With Bristol Compressor Model # | H22J25BABCA<br>H22J29BABCA |

| Item ID                                 | COMPKIT5                   |
|-----------------------------------------|----------------------------|
| Tons                                    | 3                          |
| For Use With Bristol Compressor Model # | H22A503ABCA<br>H22J33BABCA |

| Item ID                                 | COMPKIT6                                                                      |
|-----------------------------------------|-------------------------------------------------------------------------------|
| Tons                                    | 2 1/2 to 4 1/2                                                                |
| For Use With Bristol Compressor Model # | H2EB283ABCB H22J38BABCA<br>H2EB28SABCA H22A543ABCA<br>H22J36BABCA H2EB32SABCA |

| Item ID                                 | COMPKIT7    |
|-----------------------------------------|-------------|
| Tons                                    | 3 1/2       |
| For Use With Bristol Compressor Model # | H22J41BABCA |

| Item ID                                 | COMPKIT8    |
|-----------------------------------------|-------------|
| Tons                                    | 4           |
| For Use With Bristol Compressor Model # | H22J44BABCA |

| Item ID                                 | COMPKIT9                   |
|-----------------------------------------|----------------------------|
| Tons                                    | 5                          |
| For Use With Bristol Compressor Model # | H22A583ABCA<br>H22A623ABCA |

| Item ID                                 | COMPKIT10                                                                                                                                                                                                                                                                                             |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Tons                                    | 3 PHASE KIT                                                                                                                                                                                                                                                                                           |
| For Use With Bristol Compressor Model # | H22J293DBVA H22J443DBEA<br>H22J293DBLA H22J443DBFA<br>H22J333DBVA H22A543DBFA<br>H22J333DBLA H22A543DBLA<br>H22J363DBVA H22A543DBEA<br>H22J363DBLA H22A563DBLA<br>H22J383DBLA H22A623DBEA<br>H22J383DBVA H22A623DBLA<br>H22J413DBLA H22A623DBFA<br>H22J413DBEA H22A723DBLA<br>H22J443DBDA H22A723DBVA |

## Danfoss KPU Pressure And Temperature Controls

### Features

- Designed with contractor input
- Fingertip reset
- Easy visibility high contrast scale
- Fail-safe bellows available
- Durable, rust proof plastic cover
- Universal mounting bracket
- Snap action bellows
- Large, removable contact window
- Large connector area
- Easy, direct replacements for most competitor controls



| Item ID                              | Pressure Range<br>PSIG | Diff.<br>PSIG | Cap Tube<br>Length | Contact<br>Type | Reset  |
|--------------------------------------|------------------------|---------------|--------------------|-----------------|--------|
| <b>Danfoss Low Pressure Control</b>  |                        |               |                    |                 |        |
| 060-5233                             | 6 to 108               | 10 to 60      | 36"                | SPDT            | Auto   |
| 060-5235                             | 6 to 73                | 10 to 30      | 36"                | SPST            | Auto   |
| <b>Danfoss Fan Cycling Control</b>   |                        |               |                    |                 |        |
| 060-5242                             | 100 to 465             | 25 to 85      | 36"                | SPST            | Auto   |
| 060-5243                             | 100 to 600             | 58 to 145     | none               | SPDT            | Auto   |
| 060-5245                             | 100 to 600             | 58 to 145     | 36"                | SPDT            | Auto   |
| <b>Danfoss High Pressure Control</b> |                        |               |                    |                 |        |
| 060-5246                             | 100 to 600             | 60 fixed      | 36"                | SPDT            | Manual |

| Item ID                       | Low Pressure |          |             | High Pressure |          |             | Cap Tube Length | Contact Type |
|-------------------------------|--------------|----------|-------------|---------------|----------|-------------|-----------------|--------------|
|                               | Range        | Diff     | Reset       | Range         | Diff     | Reset       |                 |              |
| Danfoss Dual Pressure Control |              |          |             |               |          |             |                 |              |
| 060-5248                      | 6 to 108     | 10 to 60 | Auto        | 100 to 465    | 60 fixed | Auto        | 36"             | SPST         |
| 060-5249                      | 6 to 108     | 10 to 60 | Auto        | 100 to 465    | 60 fixed | Manual      | —               | SPST         |
| 060-5250                      | 6 to 108     | 10 to 60 | Auto        | 100 to 465    | 60 fixed | Manual      | 36"             | SPST         |
| 060-5253                      | 6 to 108     | 10 to 60 | Convertible | 100 to 600    | 60 fixed | Convertible | —               | SPDT         |
| 060-5254                      | 6 to 108     | 10 to 60 | Convertible | 100 to 600    | 60 fixed | Convertible | 36"             | SPDT         |

| Item ID                     | Sensor type                 | Reset Function | Range     | Differential      |                    |
|-----------------------------|-----------------------------|----------------|-----------|-------------------|--------------------|
|                             |                             |                |           | At lowest setting | At highest setting |
| Danfoss Temperature Control |                             |                |           |                   |                    |
| 060L5206                    | Room Sensor                 | Auto           | -20 to 60 | 8 to 40           | 2.5 to 13          |
| 060L5208                    | Remote Bulb, 80 in Cap Tube | Auto           | -15 to 60 | 6 to 18           | 5 to 50            |

## Packard Pressure Controls

### Features

- 18 inch leads
- Hermetically sealed
- Tamper proof construction
- Direct mounting on tubing
- For use in residential A/C and commercial refrigeration
- 100% tested
- Contacts rated at 6 amps, 24-240 volts
- UL and CSA recognized



### Low Pressure Controls

| Item ID        | Open<br>PSI | Close<br>PSI | Tolerance | Replaces |
|----------------|-------------|--------------|-----------|----------|
| <b>Packard</b> |             |              |           |          |
| PLP0520        | 5           | 20           | ± 5 PSI   | SLP0520  |
| PLP1025        | 10          | 25           | ± 5 PSI   | SLP1025  |
| PLP1535        | 15          | 35           | ± 5 PSI   | SLP1535  |
| PLP2550        | 25          | 50           | ± 5 PSI   | SLP2550  |
| PLP2565        | 25          | 65           | ± 5 PSI   | SLP2565  |
| PLP2580        | 25          | 80           | ± 5 PSI   | SLP2580  |
| PLP4080        | 40          | 80           | ± 5 PSI   | SLP4080  |
| PLP5090        | 50          | 90           | ± 5 PSI   | SLP5090  |

| Item ID                                     | Open PSI | Tolerance | Replaces |
|---------------------------------------------|----------|-----------|----------|
| <b>Packard Manual High Pressure Control</b> |          |           |          |
| PMR410                                      | 410      | ± 15 PSI  | SMR410   |

### High Pressure Controls

| Item ID        | Open<br>PSI | Close<br>PSI | Tolerance | Replaces  |
|----------------|-------------|--------------|-----------|-----------|
| <b>Packard</b> |             |              |           |           |
| PHP200150      | 200         | 150          | ± 15 PSI  | SHP200150 |
| PHP250150      | 250         | 150          | ± 15 PSI  | SHP250150 |
| PHP275195      | 275         | 195          | ± 15 PSI  | SHP275195 |
| PHP300200      | 300         | 200          | ± 15 PSI  | SHP300200 |
| PHP350250      | 350         | 250          | ± 15 PSI  | SHP350250 |
| PHP375265      | 375         | 265          | ± 15 PSI  | SHP375265 |
| PHP400200      | 400         | 200          | ± 15 PSI  | SHP400200 |
| PHP400280      | 400         | 280          | ± 15 PSI  | SHP400280 |
| PHP400300      | 400         | 300          | ± 15 PSI  | SHP400300 |
| PHP425300      | 425         | 300          | ± 15 PSI  | SHP425300 |
| PHP450250      | 450         | 250          | ± 15 PSI  | SHP450250 |
| PHP600475      | 600         | 475          | ± 15 PSI  | 33361     |

## Danfoss EVR, General Purpose Solenoid Valves



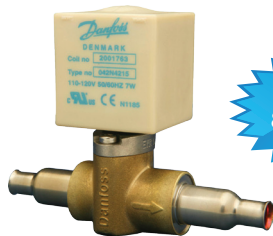
### Features

- Danfoss solenoid valves type EVR are general purpose valves designed for use in refrigeration, freezer, and air conditioning systems.
- Valve body and coil ordered separately.

| Item ID        | Item ID         | Item ID     | R22    | Connection | Port      |
|----------------|-----------------|-------------|--------|------------|-----------|
| Manual Stem    | Not Manual Stem | Service Kit | Cap    | (In.)      | Size      |
| <b>Danfoss</b> |                 |             |        |            |           |
|                | 032F7105        | 032F0181    | ERV 3  | 2.03       | 1/4 1/8   |
| 032F7144       | 032F1162        | 032F8166    | EVR 6  | 5.83       | 1/2 15/64 |
| 032F7149       |                 | 032F0185    | EVR 10 |            | 1/4 3/8   |

| Item ID  | Coil (VAC)               |
|----------|--------------------------|
| 018F7682 | 115                      |
| 018F7681 | 220                      |
| 018F7683 | 24                       |
| Item ID  | Coil and Opener          |
| 018F0091 | Magnetic Solenoid Opener |

## Danfoss EVU, Specialty Solenoid Valves



**COMPACT  
& QUIETER**

### Features

- Danfoss EVU solenoid valves are designed to fit into compact refrigeration systems. Their lightweight, compact design includes bimetal connections to permit fast, easy soldering without the need for wet wrapping.
- Valve body and coil ordered separately.

| Item ID        | Body  | Connection (In.) | CV Value |
|----------------|-------|------------------|----------|
| <b>Danfoss</b> |       |                  |          |
| 032F5024       | EVU 3 | 1/4              | 0.35     |
| 032F5026       | EVU 3 | 3/8              | 0.35     |
| 032F5049       | EVU 6 | 1/2              | 0.93     |

| Item ID  | Coil (VAC)               |
|----------|--------------------------|
| 042N4233 | 115                      |
| 042N4230 | 220                      |
| 042N8236 | 24                       |
| Item ID  | Coil and Opener          |
| 018F0091 | Magnetic Solenoid Opener |

## Thermostatic Expansion Valve Service Kits

**TUA/TUAE Kit  
Features Valves  
with No-Wrap  
Technology**

**NEW**

000MMK-I  
000MMK-U



MAXIMIZER

### Features

- Ideal for after hours service calls
- No more recalls for unstocked valves on after hour calls
- Cut out unnecessary supply house runs - the right valve is always on the truck
- Factory superheat setting - adjustment wrench included
- Sizing and selection chart included
- Durable fitted case that is easy to refill at your convenience
- Three available kits: kit including sweat valves, kit including flare valves, and a kit including both sweat and flare valves
- Kits are supplied with valves and orifices to allow the contractor to build valves based on capacity requirements up to 5 1/2 tons



## Danfoss TR6 Air Conditioning And Heat Pump TXV Kits

### Features

- Complete with valve, bulb strap and instructions
- Includes Aeroquip and Chatleff fittings normally found in most evaporators
- Energy efficiency upgrade
- Anti-hunt bulb charge
- Contractor friendly bulb strap
- Durable stainless steel power element and capillary tube
- Ideal to optimize performance of mismatched system
- Internal check valve permits use in heat pump systems



| Item ID        | Refrig | System Capacity (Tons) | Equal. Type | Inlet Conn. | Outlet Conn. | Temp. Range | Fittings Included  |
|----------------|--------|------------------------|-------------|-------------|--------------|-------------|--------------------|
| <b>Danfoss</b> |        |                        |             |             |              |             |                    |
| 067L5955       | R410A  | 1.5-3                  | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5956       | R410A  | 4                      | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5957       | R410A  | 5                      | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5856       | R22    | 1.5-2                  | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5857       | R22    | 2.5-3                  | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5858       | R22    | 3.4-4                  | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |
| 067L5859       | R22    | 5-6                    | External    | 3/8 ODF     | 3/8 ODF      | AC          | Aeroquip, Chatleff |

## Danfoss TUA/TUAE Series Expansion Valve Bodies

### Features

- Laser engraved identification
- Contractor friendly bulb strap
- Easy to access screen
- Fast and easy to install – no wet wrap required
- Durable stainless steel power element and capillary tube
- Replaceable orifice designed for refrigeration applications up to 4 1/2 tons
- Compact, light weight design for rapid installation in small spaces
- Create your own functional valve simply by selecting the valve and pairing with orifice



| Item ID        | Description | Refrig     | Connection | Equalization | External Equalization |
|----------------|-------------|------------|------------|--------------|-----------------------|
| <b>Danfoss</b> |             |            |            |              |                       |
| 068U2205       | TUA         | R134a      | 3/8 X 1/2  | Internal     | —                     |
| 068U2207       | TUAE        | R134a      | 3/8 X 1/2  | External     | 1/4                   |
| 068U2235       | TUA         | R22        | 3/8 X 1/2  | Internal     | —                     |
| 068U2237       | TUAE        | R22        | 3/8 X 1/2  | External     | 1/4                   |
| 068U2285       | TUA         | R404A/R507 | 3/8 X 1/2  | Internal     | —                     |
| 068U2287       | TUAE        | R404A/R507 | 3/8 X 1/2  | External     | 1/4                   |

## Danfoss TUA/TUAE Refrigeration TXV Orifices

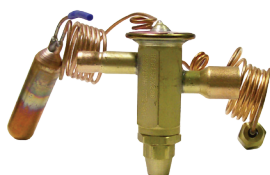
### Features

- Orifices for use with Danfoss TUA/TUAE type TXVs
- To select, use capacity required at appropriate evaporator temperature for system refrigerant
- To cross to competitor valve, use nominal capacity as found in model number and match with 40 degree evap temp



| Item ID        | R134a Capacity@20F | R134a Capacity@40F | R22 Capacity@0F | R22 Capacity@20F | R22 Capacity@40F | R404A/R507 Capacity@-20F | R404A/R507 Capacity@0F | R404A/R507 Capacity@20F | R404A/R507 Capacity@40F |
|----------------|--------------------|--------------------|-----------------|------------------|------------------|--------------------------|------------------------|-------------------------|-------------------------|
| <b>Danfoss</b> |                    |                    |                 |                  |                  |                          |                        |                         |                         |
| 068U1030       | 0.12               | 0.18               | 0.15            | 0.17             | 0.18             | 0.09                     | 0.11                   | 0.12                    | 0.13                    |
| 068U1031       | 0.17               | 0.20               | 0.20            | 0.24             | 0.26             | 0.11                     | 0.16                   | 0.18                    | 0.20                    |
| 068U1032       | 0.22               | 0.25               | 0.24            | 0.30             | 0.36             | 0.13                     | 0.18                   | 0.24                    | 0.28                    |
| 068U1033       | 0.31               | 0.39               | 0.36            | 0.42             | 0.50             | 0.18                     | 0.25                   | 0.33                    | 0.39                    |
| 068U1034       | 0.45               | 0.58               | 0.49            | 0.63             | 0.75             | 0.27                     | 0.37                   | 0.49                    | 0.59                    |
| 068U1035       | 0.61               | 0.77               | 0.66            | 0.84             | 0.89             | 0.36                     | 0.50                   | 0.55                    | 0.79                    |
| 068U1036       | 0.91               | 1.16               | 0.99            | 1.25             | 1.50             | 0.54                     | 0.75                   | 0.98                    | 1.19                    |
| 068U1037       | 1.22               | 1.56               | 1.31            | 1.65             | 2.00             | 0.73                     | 1.00                   | 1.31                    | 1.58                    |
| 068U1038       | 1.82               | 2.31               | 1.98            | 2.52             | 2.98             | 1.10                     | 1.51                   | 1.97                    | 2.35                    |
| 068U1039       | 2.69               | 3.45               | 2.94            | 3.74             | 4.45             | 1.61                     | 2.22                   | 2.91                    | 3.53                    |

## Parker Expansion Valves And Outlet Fitting Adapters



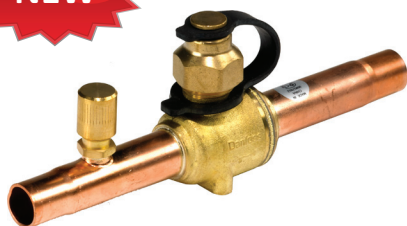
### Features

- Balanced port valve is designed specifically for air conditioning and heat pumps
- Used in air or water source systems
- Stainless steel power element
- External equalizer HCAE series has a built-in check valve
- TXVKIT for use with 1 1/2 to 5 ton air conditioning and heat pumps, includes two R22 and two R410A expansion valves and various outlet fitting adapters to accommodate use with sweat or OEM type threaded connections

| Item ID                        | Description                                                                     |
|--------------------------------|---------------------------------------------------------------------------------|
| <b>Parker Expansion Valves</b> |                                                                                 |
| TXVKIT                         | TXV Kit - Heat Pumps and Air Conditioning ; Includes all expansion valves below |
| HCAE3VX100                     | R22 TXV Valve 1 1/2-3 Ton Capacity                                              |
| HCAE5VX100                     | R22 TXV Valve 3-5 Ton Capacity                                                  |
| HCAE3ZX200                     | R410a TXV Valve 1 1/2-3 Ton Capacity                                            |
| HCAE5ZX200                     | R410a TXV Valve 3-5 Ton Capacity                                                |

| Item ID                                               | Description                 |
|-------------------------------------------------------|-----------------------------|
| <b>Parker Expansion Valve Outlet Fitting Adapters</b> |                             |
| 183372                                                | Aeroquip Fitting 5/8" ODF   |
| 183373                                                | Aeroquip Fitting 1/2" ODF   |
| 183374                                                | Chatleff Fitting 5/8" ODF   |
| 183375                                                | Chatleff Fitting 1/2" ODF   |
| 183376                                                | 1/2" ODF x 3/8" SAE Fitting |

## Danfoss Ball Valves



### Maximum flow in open position, maximum tightness in closed position

GBC valves are used in liquid, suction and hot gas lines in all refrigeration and air-conditioning systems with fluorinated refrigerants. Danfoss GBC ball valves are manually operated shut-off valves suitable for bi-directional flow. The design is based on years of experience. The valve concept includes a high precision laser welding ensuring both a strong and a light slim line valve body design. The design, weld, and choice of the sealing material enables the ball valves to meet the most demanding requirements, for example, the high working pressure when operating with R410A.

### Features

- UL, CUL and CSA listed
- Seal cap with retaining strap
- Pressure rating approved for R410A
- Precision laser welded
- Rotation stops and position indicator
- Full flow with minimum pressure drop
- Panel mounting holes
- Bi-directional flow – valve orientation is unimportant
- Slimline design ensures easy operational handling
- Burst proof spindle design prevents liquid from being trapped internally
- Valve seat of teflon to secure maximum tightness and a long lifetime
- Access port with schrader valve saves money if service of the system is necessary

| Item ID        | Alternate Code | Solder ODF connection (in) | C v value * (gal/min) | Weight (lbs) | Max. working pressure (psig) | Max. test pressure (psig) |
|----------------|----------------|----------------------------|-----------------------|--------------|------------------------------|---------------------------|
| <b>Danfoss</b> |                |                            |                       |              |                              |                           |
| 009G8050       | GBC6S          | 1/4                        | 9                     | 0.52         | 650                          | 940                       |
| 009G8051       | GBC10S         | 3/8                        | 25                    | 0.52         | 650                          | 940                       |
| 009G8052       | GBC12S         | 1/2                        | 47                    | 0.54         | 650                          | 940                       |
| 009G8053       | GBC16S         | 5/8                        | 62                    | 0.54         | 650                          | 940                       |
| 009G8054       | GBC18S         | 3/4                        | 90                    | 0.86         | 650                          | 940                       |
| 009G8065       | GBC22S         | 7/8                        | 124                   | 0.94         | 650                          | 940                       |
| 009G8066       | GBC28S         | 1 1/8                      | 229                   | 1.96         | 650                          | 940                       |
| 009G8067       | GBC35S         | 1 3/8                      | 356                   | 3.09         | 650                          | 940                       |
| 009G8068       | GBC42S         | 1 5/8                      | 533                   | 4.91         | 650                          | 940                       |
| 009G8059       | GBC54S         | 2 1/8                      | 990                   | 9.32         | 650                          | 940                       |
| 009G8069       | GBC67S         | 2 5/8                      | 1365                  | 12.46        | 650                          | 725                       |

Note: \*: CDF calculated values (Computational Fluid Dynamics)

## Danfoss Liquid Line Filter Driers

### Features

- Solid core design
- Mixture of molecular sieve and activated alumina ensures excellent absorption of moisture and acid
- Greater protection against corrosion
- Industry leading moisture capacity
- Retains particles larger than 25 microns
- Solid copper connections for easy installation



**GREATER  
PROTECTION  
AGAINST  
CORROSION**

| Item ID        | Description | Conn. Size | Cubic Inches | Conn. Type | Length | R12/R134a Capacity | R22/R410A Capacity | R404A/R507 Capacity |
|----------------|-------------|------------|--------------|------------|--------|--------------------|--------------------|---------------------|
| <b>Danfoss</b> |             |            |              |            |        |                    |                    |                     |
| 023Z5075       | DCL032      | 1/4" SAE   | 3            | Flare      | 4.33   | 2.0                | 2.0                | 1.4                 |
| 023Z5013       | DCL032S     | 1/4" ODF   | 3            | Sweat      | 3.86   | 2.0                | 2.0                | 1.4                 |
| 023Z5002       | DCL052      | 1/4" SAE   | 5            | Flare      | 4.69   | 2.0                | 2.3                | 1.4                 |
| 023Z5018       | DCL052S     | 1/4" ODF   | 5            | Sweat      | 4.21   | 2.0                | 2.3                | 1.4                 |
| 023Z5019       | DCL053S     | 3/8" ODF   | 5            | Sweat      | 4.45   | 5.1                | 5.4                | 4.0                 |
| 023Z5023       | DCL083S     | 3/8" ODF   | 8            | Sweat      | 5.47   | 5.4                | 6.0                | 4.0                 |
| 023Z5008       | DCL163      | 3/8" SAE   | 16           | Flare      | 6.57   | 6.3                | 6.9                | 4.6                 |
| 023Z5029       | DCL163S     | 3/8" ODF   | 16           | Sweat      | 5.83   | 6.3                | 6.9                | 4.6                 |
| 023Z5032       | DCL164S     | 1/2" ODF   | 16           | Sweat      | 5.98   | 8.6                | 9.4                | 6.3                 |
| 023Z5033       | DCL165S     | 1/2" ODF   | 16           | Sweat      | 6.22   | 12.3               | 13.4               | 8.6                 |
| 023Z0030       | DCL303S     | 3/8" ODF   | 30           | Sweat      | 8.82   | 6.0                | 6.6                | 4.3                 |
| 023Z0031       | DCL304S     | 1/2" ODF   | 30           | Sweat      | 8.98   | 8.8                | 9.7                | 6.3                 |
| 023Z0032       | DCL305S     | 5/8" ODF   | 30           | Sweat      | 9.21   | 12.6               | 14.0               | 9.4                 |

## Danfoss Suction Line Driers

### Features

- Solid core design with mixture of activated alumina and molecular sieve maximizes acid and moisture absorption
- Contains two schrader valves for measuring pressure drop across the drier



| Item ID        | Description | Conn. Size | Cubic Inches | Conn. Type | Length | R12/R134a Capacity | R22/R410A Capacity | R404A/R507 Capacity |
|----------------|-------------|------------|--------------|------------|--------|--------------------|--------------------|---------------------|
| <b>Danfoss</b> |             |            |              |            |        |                    |                    |                     |
| 023Z1011       | DAS166SVV   | 3/4" ODF   | 16           | Sweat      | 6.7    | 3.4                | 5.7                | 4.9                 |
| 023Z1012       | DAS167SVV   | 7/8" ODF   | 16           | Sweat      | 6.8    | 3.9                | 6.3                | 5.4                 |

## Danfoss Heat Pump Biflow Filter Driers

### Features

- Solid core design
- Check valves are insensitive to dirt and gives minimum restriction, regardless of flow direction
- Industry leading moisture capacity
- No dirt released in reverse flow
- Retains particles larger than 25 microns



| Item ID        | Description | Conn. Size | Cubic Inches | Length | R12/R134a Capacity | R22/R410A Capacity | R404A/R507 Capacity |
|----------------|-------------|------------|--------------|--------|--------------------|--------------------|---------------------|
| <b>Danfoss</b> |             |            |              |        |                    |                    |                     |
| 023Z1433       | DCB083S     | 3/8" ODF   | 8            | 5.6    | 2.1                | 2.3                | 1.5                 |
| 023Z1432       | DCB084S     | 1/2" ODF   | 8            | 5.7    | 2.4                | 2.6                | 1.7                 |
| 023Z1437       | DCB163S     | 3/8" ODF   | 16           | 5.9    | 5.1                | 5.7                | 3.7                 |
| 023Z1436       | DCB164S     | 1/2" ODF   | 16           | 6.1    | 8.0                | 9.1                | 5.7                 |

## Parker Air Conditioning And Refrigeration Driers

**All Liquid Line, Bi-Flow and Suction Line Filter Driers are R410A rated.**

### Features

- Liquid Line Filter Driers from 3/8 ODF to 7/8 ODF
- BI-Flow Filter Driers from 1/2 ODF to 3/8 ODF
- Suctions Line Filter Driers from 1/2 ODF to 7/8 ODF
- Maximum filtration capability for today's systems
- Compatible with mineral oil, alkybenzene and POE lubricants

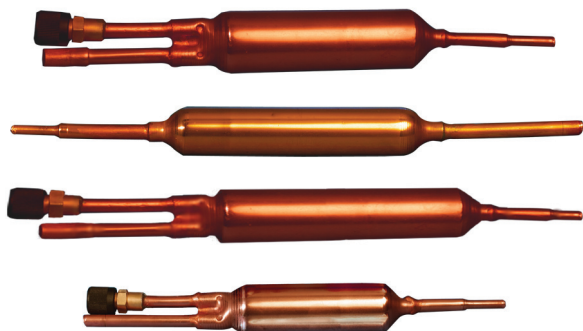
| Item ID                                 | Description                |
|-----------------------------------------|----------------------------|
| <b>Parker Liquid Line Filter Driers</b> |                            |
| SS053S                                  | Liquid Line 3/8 ODF        |
| SS083S                                  | Liquid Line 3/8 ODF        |
| SS163S                                  | Liquid Line 3/8 ODF        |
| 163SXF                                  | Liquid Line R410a -3/8 ODF |
| 084S                                    | Liquid Line 1/2 ODF        |
| 164S                                    | Liquid Line 1/2 ODF        |
| 304S                                    | Liquid Line 1/2 ODF        |
| 164                                     | Liquid Line 1/2 SAE Male   |
| 304                                     | Liquid Line 1/2 SAE Male   |
| 032S                                    | Liquid Line 1/4 ODF        |
| 052S                                    | Liquid Line 1/4 ODF        |
| 082S                                    | Liquid Line 1/4 ODF        |
| 162S                                    | Liquid Line 1/4 ODF        |
| 032MF                                   | Liquid Line 1/4 SAE FxM    |
| 032                                     | Liquid Line 1/4 SAE Male   |
| 052                                     | Liquid Line 1/4 SAE Male   |
| 082                                     | Liquid Line 1/4 SAE Male   |
| 053S                                    | Liquid Line 3/8 ODF        |
| 083S                                    | Liquid Line 3/8 ODF        |
| 163S                                    | Liquid Line 3/8 ODF        |
| 303S                                    | Liquid Line 3/8 ODF        |
| 053                                     | Liquid Line 3/8 SAE Male   |
| 083                                     | Liquid Line 3/8 SAE Male   |
| 163                                     | Liquid Line 3/8 SAE Male   |
| 165S                                    | Liquid Line 5/8 ODF        |
| 305S                                    | Liquid Line 5/8 ODF        |
| 415S                                    | Liquid Line 5/8 ODF        |
| 305                                     | Liquid Line 5/8 SAE Male   |
| 415                                     | Liquid Line 5/8 SAE Male   |
| 307S                                    | Liquid Line 7/8 ODF        |

| Item ID                                   | Description                 |
|-------------------------------------------|-----------------------------|
| <b>Parker BI-Flow Filter Driers</b>       |                             |
| BF084S                                    | BI-Flow 1/2 ODF             |
| BF164S                                    | BI-Flow 1/2 ODF             |
| BF083S                                    | BI-Flow 3/8 ODF             |
| BF163S                                    | BI-Flow 3/8 ODF             |
| BF163                                     | BI-Flow 3/8 SAE Male        |
| BF165S                                    | BI-Flow 5/8 ODF             |
| BF307S                                    | BI-Flow 7/8 ODF             |
| Item ID                                   | Description                 |
| <b>Parker Suction Line Filter Driers</b>  |                             |
| SLD139SVHH                                | Suction Line 11/8 ODF       |
| SLD279SVHH                                | Suction Line 11/8 ODF       |
| SLD136SVHH                                | Suction Line 3/4 ODF        |
| SLD166V                                   | Suction Line 3/4 ODF        |
| SLD306V                                   | Suction Line 3/4 ODF        |
| SLD86SVHH                                 | Suction Line 3/4 ODF        |
| SLD83SVHH                                 | Suction Line 3/8 ODF        |
| SLD135SVHH                                | Suction Line 5/8 ODF        |
| SLD165V                                   | Suction Line 5/8 ODF        |
| SLD305S                                   | Suction Line 5/8 ODF        |
| SLD85SVHH                                 | Suction Line 5/8 ODF        |
| SLD137SVHH                                | Suction Line 7/8 ODF        |
| SLD167V                                   | Suction Line 7/8 ODF        |
| SLD277SVHH                                | Suction Line 7/8 ODF        |
| SLD307V                                   | Suction Line 7/8 ODF        |
| SLD87SVHH                                 | Suction Line 7/8 ODF        |
| Item ID                                   | Description                 |
| <b>Parker Refrigeration Recover Drier</b> |                             |
| 302V                                      | Refrigeration Recover Drier |





## Stamford Spun Copper Driers



### Features

- All Copper Shells
- 100% Molecular Sieve with XH9 and XH11 desiccants
- Fully Compatible with ALL new refrigerants

\* PD4178: New breakthrough drier with UV Dye already installed in the drier to make it easy to locate leaks in sealed systems.

| Item ID        | Description                            | Stamford |
|----------------|----------------------------------------|----------|
| <b>Packard</b> |                                        |          |
| PD100          | 3/4" Directional Drier                 | 4043     |
| PD103          | 1" Directional Drier                   | 4050     |
| PD109          | 3/4" Non Directional Drier             | 4051     |
| PD109P         | 3 Pack of PD109                        | 4051P    |
| PD110          | 3/4" Directional Drier                 | 4040     |
| PD114          | 1" Directional Drier                   | 4041     |
| PD111          | 1" Valve Drier                         | 4039     |
| PD111P         | 3 Pack of PD111                        | 4039P    |
| PD112          | 1" 30 Gram Drier                       | 4049     |
| PD113          | 1" Double Inlet Drier                  | 4042     |
| PD115          | 3/4" Valve Drier                       | 4044     |
| PD115P         | 3 Pack of PD115                        | 4044P    |
| PD116          | 1" Non Directional Drier with Stepdown | 4069     |
| PD4178 *       | 3/4" Universal UV Dye                  | 4178     |

## Parker Moisture Indicators

### Features

- Available in all popular end connections up to 2 1/8"
- Solid copper extended sweat fittings permit solder installation without disassembly
- Flare models feature forged brass body and fittings
- Compact design, low silhouette, short laying in length
- Extremely accurate
- Easy viewing
- U.L. listed



| Item ID                                       | Description                               |
|-----------------------------------------------|-------------------------------------------|
| <b>Parker Sight Glass Moisture Indicators</b> |                                           |
| PSG2S                                         | Sight Glass Moisture Indicators 1/4 ODF   |
| PSG3S                                         | Sight Glass Moisture Indicators 3/8 ODF   |
| PSG4S                                         | Sight Glass Moisture Indicators 1/2 ODF   |
| PSG5S                                         | Sight Glass Moisture Indicators 5/8 ODF   |
| PSG7S                                         | Sight Glass Moisture Indicators 7/8 ODF   |
| PSG9S                                         | Sight Glass Moisture Indicators 1 1/8 ODF |
| PSG11S                                        | Sight Glass Moisture Indicators 1 3/8 ODF |
| PSG13S                                        | Sight Glass Moisture Indicators 1 5/8 ODF |
| PSG17S                                        | Sight Glass Moisture Indicators 2 1/8 ODF |

## Danfoss Sight Glass / Moisture Indicators

### Features

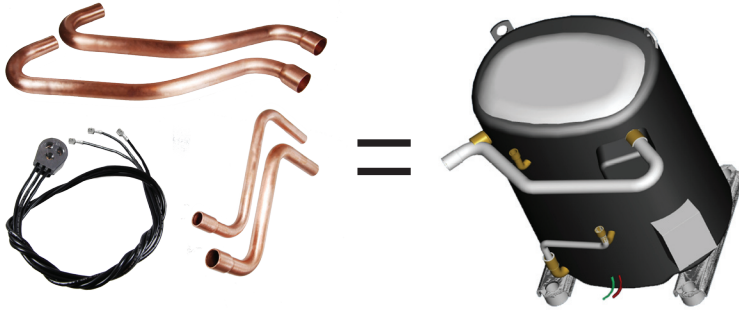
- Indicates dangerous moisture levels to prevent formation of harmful acids
- Accurate moisture indication for system monitoring
- High visibility view port
- Brass body design minimizes corrosion
- Inline and vessel mount versions
- available
- UL, CSA approved



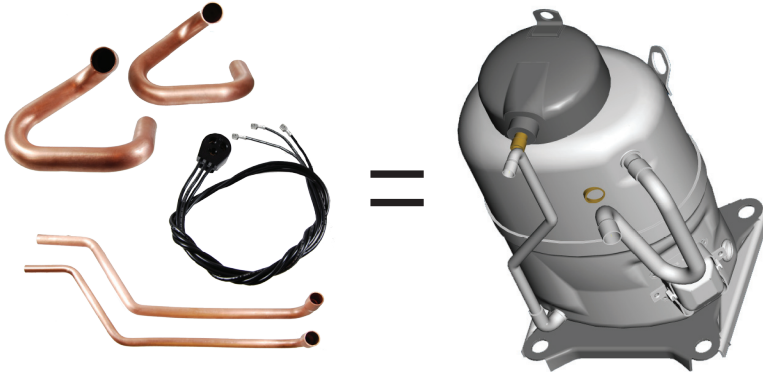
| Item ID        | Description | Conn. Size | Connection Type   | Overall Length |
|----------------|-------------|------------|-------------------|----------------|
| <b>Danfoss</b> |             |            |                   |                |
| 014-0137       | SGN6        | 1/4" SAE   | M Flare x F Flare | 1.81           |
| 014-0138       | SGN10       | 3/8" SAE   | M Flare x F Flare | 2.24           |
| 014-0142       | SGN6S       | 1/4" ODF   | ODF x ODF         | 3.98           |
| 014-0143       | SGN10S      | 3/8" ODF   | ODF x ODF         | 4.69           |

## Bristol Retrofit Assist Kits

344062 RECIPROCATING COMPRESSOR KIT



344063 SCROLL COMPRESSOR REPLACEMENT KIT



### EASY TO USE REPLACEMENT KIT!

#### Features

- Includes suction and discharge tube that will match up to most CR reciprocating or ZR scroll compressors.
- Eliminates the need to bend copper tubing on a jobsite.
- Includes a wiring harness that will plug directly onto the quick connect terminal plug on Bristol compressor.
- Kits include three 36 inch wires labeled Common, Start, and Run, reducing the possibility of mis-wiring the compressor.

| Item ID        | Application                                                                       | For Use With                              | Includes                         |
|----------------|-----------------------------------------------------------------------------------|-------------------------------------------|----------------------------------|
| <b>Bristol</b> |                                                                                   |                                           |                                  |
| 344062         | Re-piping of Bristol models H2E, H29B and H22J in place of Copeland CR models     | Air conditioning compressor installations | Copper tubing and wiring harness |
| 344063         | Re-piping of Bristol models H2E, H29B and H22J in place of Copeland Scroll models | Air conditioning compressor installations | Copper tubing and wiring harness |

## Bristol and Danfoss Wiring Harness



651078



#### Features

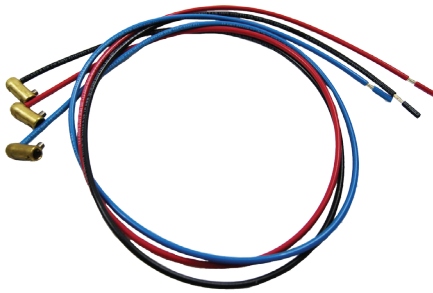
- Most compressor failures may be attributed to mis-wiring the compressor. These wiring harnesses with molded plug help to eliminate costly mis-wires and eliminates the guess work out of wiring in the compressor. The Wiring Harness provides a low cost solution by getting the serviceman to the next job faster.
- For Bristol or Danfoss compressors.



120Z5056

| Item ID        | Brand   | Gauge | Compressor | Length (In.) |
|----------------|---------|-------|------------|--------------|
| <b>Packard</b> |         |       |            |              |
| 651078         | Bristol | 12    | Hermetic   | 36           |
| 120Z5056       | Danfoss | 10    | Scroll     | 60           |

## Three Wire Compressor Terminal Repair Kits



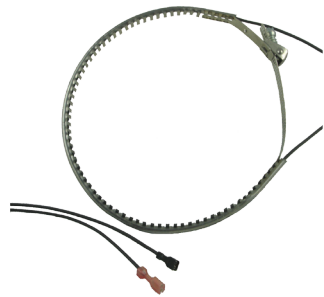
### Features

The Term-Lok Kit was designed not only for the repair of burned or damaged spade terminals on air conditioners and refrigeration units, but also for non burned terminals to prevent future burn off. They are made of high quality, heat sensed brass and are guaranteed for the life of the compressor. The kit contains a brass cylindrical tube with a diameter large enough to slip over the pins and has a stainless set screw to lock onto the terminal. A wrench is provided with every kit for easy installation and an anti-arcing spacer is also included to prevent arcing between posts. Once the kit is installed, the compressor cover may be placed back over the terminals without any obstructions. The kits are installed in 15 minutes or less, allowing the technician to restore the unit to power without having to replace the compressor.

- Kits contain everything necessary for a fast and easy terminal repair
- Will never crack, break or burn off
- Provides four full points of contact on the new terminal

| Item ID         | Gauge | Services              |
|-----------------|-------|-----------------------|
| <b>Term-LOK</b> |       |                       |
| TLC38           | 8     | 5 ton units and above |
| TLC310          | 10    | 3 - 5 ton units       |
| TLC312          | 12    | 1 - 3 ton units       |

## Tutco Crankcase Heaters



### Features

- High temperature silicone rubber element and VW-1 insulated lead wires rated for 150°C
- Wattage for each model matches compressor requirements
- Nominal power consumption due to highly efficient heat transmission and low wattage
- Voltage ratings through 600 VAC
- Corrosion resistant exterior
- Completely moisture-proof
- Quick and easy installation
- UL recognized
- Custom leads and terminations available

| Item ID      | Volts | Watts | Girth Dimensions |        | Shape |
|--------------|-------|-------|------------------|--------|-------|
|              |       |       | Min              | Max    |       |
| <b>Tutco</b> |       |       |                  |        |       |
| CH197240     | 120   | 25    | 13 13/16         | 21     | Round |
| CH19740      | 240   | 25    | 13 13/16         | 21     | Round |
| CH1982       | 120   | 35    | 16 13/16         | 24     | Oval  |
| CH135240     | 120   | 40    | 23 7/16          | 27 1/2 | Oval  |
| CH13540      | 240   | 40    | 23 7/16          | 27 1/2 | Oval  |
| CH196        | 240   | 40    | 19 15/16         | 27 1/8 | Round |
| CH205        | 240   | 40    | 21 3/16          | 24 3/8 | Round |
| CH2057       | 460   | 40    | 21 3/16          | 24 3/8 | Round |
| CH1963       | 480   | 40    | 19 15/16         | 27 1/8 | Round |
| CH103240     | 120   | 45    | 24 13/16         | 32     | Oval  |
| CH10340      | 240   | 45    | 24 13/16         | 32     | Oval  |
| CH184        | 240   | 45    | 13 13/16         | 21     | Round |
| CH105240     | 120   | 50    | 31 13/16         | 39     | Round |
| CH105140     | 208   | 50    | 31 13/16         | 39     | Round |
| CH10540      | 240   | 50    | 31 13/16         | 39     | Round |
| CH105340     | 480   | 50    | 31 13/16         | 39     | Round |
| CH101240     | 120   | 54    | 27 7/16          | 39 5/8 | Oval  |
| CH101140     | 208   | 54    | 27 7/16          | 39 5/8 | Oval  |
| CH10140      | 240   | 54    | 27 7/16          | 39 5/8 | Oval  |
| CH101340     | 480   | 54    | 27 7/16          | 39 5/8 | Oval  |
| CH102140     | 208   | 60    | 25 13/16         | 33     | Oval  |
| CH10240      | 240   | 60    | 25 13/16         | 33     | Oval  |
| CH1677       | 460   | 65    | 31 13/16         | 38     | Round |
| CH2127       | 460   | 67    | 32 13/16         | 35 1/2 | Round |

| Item ID      | Volts | Watts | Girth Dimensions |          | Shape |
|--------------|-------|-------|------------------|----------|-------|
|              |       |       | Min              | Max      |       |
| <b>Tutco</b> |       |       |                  |          |       |
| CH1672       | 120   | 70    | 34 1/4           | 41 5/8   | Round |
| CH2022       | 120   | 70    | 33 9/16          | 37 3/8   | Round |
| CH2802       | 120   | 70    | 28               | 20 13/16 | Round |
| CH202        | 240   | 70    | 33 9/16          | 37 3/8   | Round |
| CH230        | 240   | 70    | 21 13/16         | 29       | Round |
| CH280        | 240   | 70    | 28               | 20 13/16 | Round |
| CH2023       | 480   | 70    | 33 9/16          | 37 3/8   | Round |
| CH2303       | 480   | 70    | 21 13/16         | 29       | Round |
| CH2803       | 480   | 70    | 28               | 20 13/16 | Round |
| CH2306       | 575   | 70    | 21 13/16         | 29       | Round |
| CH10440      | 240   | 75    | 41 9/16          | 48 3/4   | Round |
| CH104340     | 480   | 75    | 41 9/16          | 48 3/4   | Round |
| CH1767       | 460   | 92    | 32 13/16         | 35 1/2   | Round |
| CH2552       | 120   | 100   | 35 1/16          | 28 5/16  | Round |
| CH147        | 240   | 100   | 32 13/16         | 35 1/2   | Round |
| CH255        | 240   | 100   | 35 1/16          | 28 5/16  | Round |
| CH1477       | 460   | 100   | 32 13/16         | 35 1/2   | Round |
| CH2707       | 460   | 100   | 36               | 43 3/8   | Round |
| CH2727       | 460   | 100   | 38               | 30 13/16 | Round |
| CH2553       | 480   | 100   | 35 1/16          | 28 5/16  | Round |
| CH2832       | 100   | 120   | 38 1/8           | 45 1/2   | Round |
| CH2822       | 150   | 120   | 38 1/8           | 45 1/2   | Round |
| CH2557       | 90    | 460   | 27 3/4           | 35 1/8   | Round |

## Bristol “G” Series Rotolock Adapters



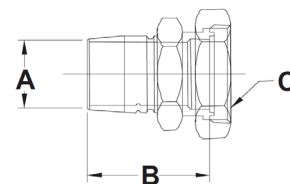
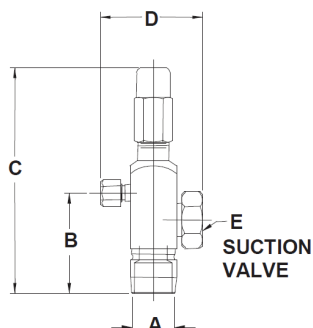
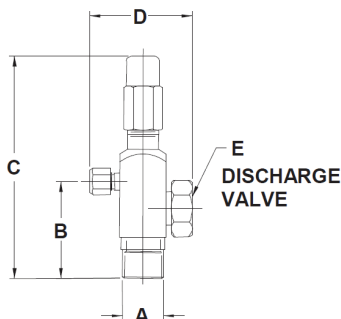
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344035



344030  
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344031



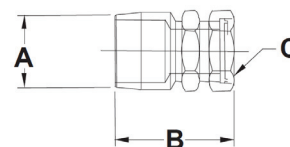
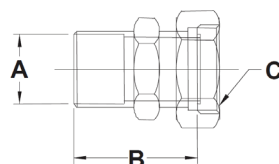
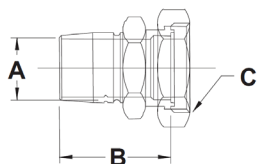
344032



344036



344039



### Applications:

- Adaptor valve used to change from rotolock to brazed connection

| Item ID        | Description                | Includes    | A     | B       | C            | D      | E            | Replace Bristol |
|----------------|----------------------------|-------------|-------|---------|--------------|--------|--------------|-----------------|
| <b>Bristol</b> |                            |             |       |         |              |        |              |                 |
| 344030         | Suction Valve              | Teflon seal | 1 1/8 | 3       | 7 3/16       | 2 1/2  | 1 3/4-12 UNF | 250508          |
| 344033         | Suction Valve              | Teflon seal | 1 3/8 | 3 5/16  | 7 3/16       | 2 1/2  | 1 3/4-12 UNF | 250525          |
| 344034         | Suction Valve              | Teflon seal | 1 5/8 | 3 1/2   | 7 3/16       | 2 1/2  | 1 3/4-12 UNF | 250526          |
| 344036         | Suction Adapter Straight   | Teflon seal | 1 3/8 | 2 1/2   | 1 3/4-12 UNF | —      | —            | 250529          |
| 344032         | Suction Adapter Straight   | Teflon seal | 1 1/8 | 2 3/16  | 1 3/4-12 UNF | —      | —            | 250510          |
| 344029         | Discharge Valve            | Teflon seal | 7/8   | 2 11/32 | 5 11/32      | 2 1/64 | 1 1/4-12 UNF | 250507          |
| 344035         | Discharge Valve            | Teflon seal | 1 1/8 | 19/32   | 5 11/32      | 2 5/32 | 1 1/4-12 UNF | 250527          |
| 344031         | Discharge Adapter Straight | Teflon seal | 7/8   | 1 23/32 | 1 1/4-12 UNF | —      | —            | 250509          |
| 344039         | Discharge Adapter Straight | Teflon seal | 1 1/8 | 2       | 1 1/4-12 UNF | —      | —            | 250534          |

### Notes:

Compressors with sweat fittings or brazed fittings cannot be adapted to rotalocks.



## Mounting Hardware - Cush-A-Clamp



## Features

- Tube Sizes: 1/4" to 6-1/8" ; Pipe Sizes: 1/4" to 6"
- Channel mounted clamping systems ideal for multiple line runs, for absorbing shock and vibration, reducing unwanted noise and preventing galvanic corrosion.
- The clamp features a unique shoulder stud which is securely fashioned to one clamp half. This "Controlled Squeeze" design eliminates over-tightening and rotation while a nylon insert nut assures a positive lock. Clamps are available in steel (with electrochromate finish), and stainless steel. Fits any standard 1-5/8" wide channel.
- The cushion is manufactured from a thermoplastic elastomer, it's built tough to withstand the effects of most oils, chemicals and industrial cleaning compounds, in temperatures from -50°F to 275°F. A patented "Living Hinge" allows the cushion to be spread apart for quick, easy installation on sizes from 1/4" through 1-3/4". Interlock edges and channel locator legs ensure that the cushion remains in place.
- Installation: One man, one tool time savings. Retrofits can be added without disassembling your present system.

| Item ID                             | Size                   | Material                   |
|-------------------------------------|------------------------|----------------------------|
| <b>ZSI Cush-A-Clamp Zinc Plated</b> |                        |                            |
| 004T008                             | 1/4" Tube OD           | Zinc Plated Anti-Vibration |
| 006T010                             | 3/8" Tube OD           | Zinc Plated Anti-Vibration |
| 008T012                             | 1/2" Tube OD           | Zinc Plated Anti-Vibration |
| 009N012                             | 1/4" Pipe              | Zinc Plated Anti-Vibration |
| 010T014                             | 5/8" Tube OD           | Zinc Plated Anti-Vibration |
| 011N014                             | 3/8" Pipe              | Zinc Plated Anti-Vibration |
| 012T016                             | 3/4" Tube OD           | Zinc Plated Anti-Vibration |
| 014N018                             | 1/2" Pipe              | Zinc Plated Anti-Vibration |
| 014T018                             | 7/8" Tube OD           | Zinc Plated Anti-Vibration |
| 016T020                             | 1" Tube OD             | Zinc Plated Anti-Vibration |
| 017N022                             | 3/4" Pipe              | Zinc Plated Anti-Vibration |
| 018T022                             | 1 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 020T024                             | 1 1/4" Tube OD         | Zinc Plated Anti-Vibration |
| 021N026                             | 1" Pipe                | Zinc Plated Anti-Vibration |
| 022T026                             | 1 3/8" Tube OD         | Zinc Plated Anti-Vibration |
| 024N028                             | 1 1/2" Tube OD         | Zinc Plated Anti-Vibration |
| 026N030                             | 1 5/8" Tube OD         | Zinc Plated Anti-Vibration |
| 027N032                             | 1 1/4" Pipe            | Zinc Plated Anti-Vibration |
| 028N032                             | 1 3/4" Tube OD         | Zinc Plated Anti-Vibration |
| 030N034                             | 1 7/8" Tube OD         | Zinc Plated Anti-Vibration |
| 032N036                             | 2" Tube OD             | Zinc Plated Anti-Vibration |
| 034N040                             | 2 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 038N042                             | 2 1/4" Tube OD         | Zinc Plated Anti-Vibration |
| 038N044                             | 2 3/8" Tube OD 2" Pipe | Zinc Plated Anti-Vibration |
| 040N046                             | 2 1/2" Tube OD         | Zinc Plated Anti-Vibration |
| 042N048                             | 2 5/8" Tube OD         | Zinc Plated Anti-Vibration |
| 046N052                             | 2 7/8" Tube OD         | Zinc Plated Anti-Vibration |
| 050N054                             | 3" Tube OD             | Zinc Plated Anti-Vibration |
| 050N056                             | 3 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 053N060                             | 3 5/16" Tube OD        | Zinc Plated Anti-Vibration |
| 056N062                             | 3 1/2" Tube OD 3" Pipe | Zinc Plated Anti-Vibration |
| 058N064                             | 3 5/8" Tube OD         | Zinc Plated Anti-Vibration |
| 064N072                             | 4" Tube OD 3 1/2" Pipe | Zinc Plated Anti-Vibration |
| 066N074                             | 4 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 069N076                             | 4 5/16" Tube OD        | Zinc Plated Anti-Vibration |
| 072N080                             | 4 1/2" Tube OD 4" Pipe | Zinc Plated Anti-Vibration |
| 082N090                             | 5 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 089N096                             | 5" Pipe                | Zinc Plated Anti-Vibration |
| 096N106                             | 6" Tube OD             | Zinc Plated Anti-Vibration |
| 098N106                             | 6 1/8" Tube OD         | Zinc Plated Anti-Vibration |
| 106N144                             | 6" Pipe                | Zinc Plated Anti-Vibration |

| Item ID                                 | Size           | Material                       |
|-----------------------------------------|----------------|--------------------------------|
| <b>ZSI Cush-A-Clamp Stainless Steel</b> |                |                                |
| 004NS008                                | 1/4" Tube OD   | Stainless Steel Anti-Vibration |
| 006NS010                                | 3/8" Tube OD   | Stainless Steel Anti-Vibration |
| 008NS012                                | 1/2" Tube OD   | Stainless Steel Anti-Vibration |
| 009NS012                                | 1/4" Pipe      | Stainless Steel Anti-Vibration |
| 010NS014                                | 5/8" Tube OD   | Stainless Steel Anti-Vibration |
| 011NS014                                | 3/8" Pipe      | Stainless Steel Anti-Vibration |
| 012NS016                                | 3/4" Tube OD   | Stainless Steel Anti-Vibration |
| 014NS018                                | 7/8" Tube OD   | Stainless Steel Anti-Vibration |
| 016NS020                                | 1" Tube OD     | Stainless Steel Anti-Vibration |
| 017NS022                                | 3/4" Pipe      | Stainless Steel Anti-Vibration |
| 018NS022                                | 1 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 020NS024                                | 1 1/4" Tube OD | Stainless Steel Anti-Vibration |
| 021NS026                                | 1" Pipe        | Stainless Steel Anti-Vibration |
| 022NS026                                | 1 3/8" Tube OD | Stainless Steel Anti-Vibration |
| 024NS028                                | 1 1/2" Tube OD | Stainless Steel Anti-Vibration |
| 026NS030                                | 1 5/8" Tube OD | Stainless Steel Anti-Vibration |
| 027NS032                                | 1 1/4" Pipe    | Stainless Steel Anti-Vibration |
| 028NS032                                | 1 3/4" Tube OD | Stainless Steel Anti-Vibration |
| 030NS034                                | 1 7/8" Tube OD | Stainless Steel Anti-Vibration |
| 032NS036                                | 2" Tube OD     | Stainless Steel Anti-Vibration |
| 034NS040                                | 2 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 038NS044                                | 2 3/8" Tube OD | Stainless Steel Anti-Vibration |
| 040NS046                                | 2 1/2" Tube OD | Stainless Steel Anti-Vibration |
| 042NS048                                | 2 5/8" Tube OD | Stainless Steel Anti-Vibration |
| 046NS052                                | 2 7/8" Tube OD | Stainless Steel Anti-Vibration |
| 050NS054                                | 3" Tube OD     | Stainless Steel Anti-Vibration |
| 050NS056                                | 3 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 056NS062                                | 3 1/2" Tube OD | Stainless Steel Anti-Vibration |
| 058NS064                                | 3 5/8" Tube OD | Stainless Steel Anti-Vibration |
| 064NS072                                | 4" Tube OD     | Stainless Steel Anti-Vibration |
| 066NS074                                | 4 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 072NS080                                | 4 1/2" Tube OD | Stainless Steel Anti-Vibration |
| 082NS090                                | 5 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 089NS096                                | 5" Pipe        | Stainless Steel Anti-Vibration |
| 098NS106                                | 6 1/8" Tube OD | Stainless Steel Anti-Vibration |
| 106NS114                                | 6" Pipe        | Stainless Steel Anti-Vibration |

## Mounting Hardware - Cush-A-Click



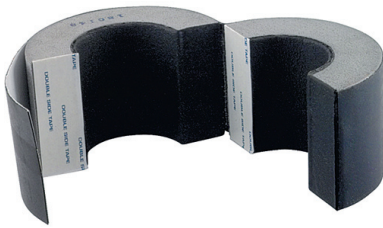
### Features

- The Cush-A-Click offers great advantage by retaining an unbroken vapor barrier seal, eliminating the problem of sweating on metal fittings. The Cush-A-Click is ideal for the installation of refrigeration systems allowing the barrier seal to run the length of the pipe work without cutting the insulation material. The Cush-A-Click quickly secures both the pipe and the insulation
- Time and labor savings
- Simple, secure installation of refrigeration and plumbing pipe work
- Corrosion resistance
- Light weight

| Item ID                                 | Clamping Range |
|-----------------------------------------|----------------|
| <b>ZSI Cush-A-Click Polyamide Alloy</b> |                |
| CC12                                    | 3/4"           |
| CC14                                    | 7/8"           |
| CC16                                    | 1"             |
| CC18                                    | 1 1/8"         |
| CC20                                    | 1 1/4"         |
| CC22                                    | 1 3/8"         |
| CC24                                    | 1 1/2"         |
| CC26                                    | 1 5/8"         |
| CC32                                    | 2"             |
| CC34                                    | 2 1/8"         |

**NEW**

## Mounting Hardware - Cush-A-Therm™



**NEW**

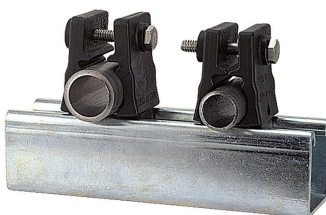
### Features

- The Cush-A-Therm™ Clamp is a fast easy way to provide a crush-resistant airtight seal for chilled refrigeration or mechanical pipe- lines that require continuous insulation. The rigid foam construction has an insulating tape inner lining which supports tube and absorbs vibration of operating pipelines. The outer cover consists of a special rubber coating which seals the cushion completely after installation in order to prevent condensation. Its strong closed-cell structure is ideal for liquid cooling lines to prevent condensation and save energy.
- Maintains thermal barrier protection
- Prevents condensation
- Properly supports pipe and tube
- Absorbs vibration
- Polyurethane foam laminated with a rubber lining
- Temperature range: -70°F to +220°F
- Comes complete with cushion and clamp

| Item ID                 | Insulation Thickness (In.) | Pipe O.D. |
|-------------------------|----------------------------|-----------|
| <b>ZSI Cush-A-Therm</b> |                            |           |
| UX3834                  | 3/4                        | 3/8       |
| UX1234                  | 3/4                        | 1/2       |
| UX5834                  | 3/4                        | 5/8       |
| UX3434                  | 3/4                        | 3/4       |
| UX7834                  | 3/4                        | 7/8       |
| UX11834                 | 3/4                        | 1 1/8     |
| UX13834                 | 3/4                        | 1 3/8     |
| UX15834                 | 3/4                        | 1 5/8     |
| UX21834                 | 3/4                        | 2 1/8     |
| UX23834                 | 3/4                        | 2 3/8     |
| UX25834                 | 3/4                        | 2 5/8     |
| UX31834                 | 3/4                        | 3 1/8     |
| UX35834                 | 3/4                        | 3 5/8     |
| UX41834                 | 3/4                        | 4 1/8     |
| UX5810                  | 1                          | 5/8       |
| UX3410                  | 1                          | 3/4       |
| UX7810                  | 1                          | 7/8       |
| UX11810                 | 1                          | 1 1/8     |
| UX13810                 | 1                          | 1 3/8     |
| UX15810                 | 1                          | 1 5/8     |
| UX21810                 | 1                          | 2 1/8     |
| UX23810                 | 1                          | 2 3/8     |
| UX25810                 | 1                          | 2 5/8     |
| UX31810                 | 1                          | 3 1/8     |
| UX41810                 | 1                          | 4 1/8     |

COMPRESSORS

## Mounting Hardware - Cush-A-Grip



### Features

- Accomodates 10 sizes of tube
- Accomodates 5 sizes of pipe
- Diameters from .25" to 1.31"
- Metric sizes from 6mm to 32mm
- Hex machine screw
- Captured nylon lock nut

| Item ID                | Description                                        |
|------------------------|----------------------------------------------------|
| <b>ZSI Cush-A-Grip</b> |                                                    |
| CG10                   | 1/4" TO 1/2" T, 1/4" P MULTI-SIZE CLAMP 10PAK      |
| CG20                   | 5/8" TO 7/8" T, 3/8"-1/2" P MULTI-SIZE CLAMP 10PAK |
| CG30                   | 7/8" TO 1-1/8" T, 3/4" P MULTI-SIZE CLAMP 10PAK    |
| CG40                   | 1" TO 1-1/4" T, 3/4" - 1" P MULTI-SIZE CLAMP 10PAK |

**NEW**

## Mounting Hardware - Cush-A-Claw™

NEW



### Features

- The Cush-A-Claw™ grabs on to your tube, pipe, or hose and holds it in place. The unique one piece patented design allows for quick, simple, and easy installation. It will not rust.
- Quick, simple, and easy snap-in installation of tube, pipe, or hose, saves time and money
- For strut mount, sure grip strut base easily rotates into strut.
- Non conducting
- Temp range: -50° to 275° F
- Works great indoors or outdoors
- Designed for light duty loads and applications
- Prevents galvanic corrosion of dissimilar metals
- An excellent alternative to steel, stainless steel, or galvanized clamps

| Item ID                       | Description |                           |
|-------------------------------|-------------|---------------------------|
| ZSI Cush-A-Claw Strut Mount   |             |                           |
| CL06                          | 3/8"        | O.D. Tube thermoplastic   |
| CL08                          | 1/2"        | O.D. Tube thermoplastic   |
| CL10                          | 5/8"        | O.D. Tube thermoplastic   |
| CL12                          | 3/4"        | O.D. Tube thermoplastic   |
| CL14                          | 7/8"        | O.D. Tube thermoplastic   |
| CL18                          | 1 1/8"      | O.D. Tube thermoplastic   |
| EMT1                          | 1"          | EMT Conduit thermoplastic |
| EMT12                         | 1/2"        | EMT Conduit thermoplastic |
| EMT34                         | 3/4"        | EMT Conduit thermoplastic |
| ZSI Cush-A-Claw Surface Mount |             |                           |
| CLS04                         | 1/4"        | O.D. Tube thermoplastic   |
| CLS06                         | 3/8"        | O.D. Tube thermoplastic   |
| CLS08                         | 1/2"        | O.D. Tube thermoplastic   |
| CLS10                         | 3/4"        | O.D. Tube thermoplastic   |
| CLS12                         | 3/4"        | O.D. Tube thermoplastic   |
| CLS14                         | 7/8"        | O.D. Tube thermoplastic   |
| CLS18                         | 1 1/8"      | O.D. Tube thermoplastic   |
| EMTS34                        | 3/4"        | EMT Conduit thermoplastic |

## Mounting Hardware - Cush-A-Clip

NEW



| Item ID                | Tube Size  |
|------------------------|------------|
| <b>ZSI Cush-A-Clip</b> |            |
| RPC38                  | 3/8" OD.   |
| RPC12                  | 1/2" OD.   |
| RPC58                  | 5/8" OD.   |
| RPC34                  | 3/4" OD.   |
| RPC78                  | 7/8" OD.   |
| RPC118                 | 1 1/8" OD. |

### Features

- A simple, economical, lightweight hanger for supporting tubing
- Manufactured from black nylon
- Sizes from 3/8" to 1-1/8"
- One piece design makes installation a snap!
- No nuts to tighten, no parts to loosen!
- Temperatures from -40°F to 275°F
- Secure but non-tightening design allows for expansion, greatly reducing joint fractures

## Mounting Hardware - Quick-Clip

NEW



| Item ID               | Clamping Range<br>- No Insulation |
|-----------------------|-----------------------------------|
| <b>ZSI Quick-Clip</b> |                                   |
| QC12                  | 3/4"                              |
| QC14                  | 7/8"                              |
| QC16                  | 1"                                |
| QC18                  | 1 1/8"                            |
| QC20                  | 1 1/4"                            |
| QC22                  | 1 3/8"                            |
| QC24                  | 1 1/2"                            |
| QC26                  | 1 5/8"                            |
| QC32                  | 2"                                |
| QC34                  | 2 1/8"                            |

### Features

- The Quick-Clip is a unique one-piece design manufactured from a composite polyamide alloy combining strength with light weight. It will overcome the problems of using cable ties for piping, electrical, optical and network cabling.
- Quick Clip locates easily on 3/8" rod
- No breaks in insulation material
- Fast and easy installation, saves time and money
- Single handed installation
- Manufactured from a composite polyamide, tested from -40°F to +275°F. It combines strength with light weight
- Ideal for network cables
- Studding panel inserts

### TorqStart



#### Features

- Potential relay and start capacitor for compressor hard start applications
- Two wire connection
- For use with Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resistor to safely discharge the capacitor



| Item ID        | Capacitor Size (µF) | HP Rating         | Compressor       | Pick-Up Voltage (VAC) | Maximum Coil Voltage (VAC) | Replaces      |
|----------------|---------------------|-------------------|------------------|-----------------------|----------------------------|---------------|
| <b>Packard</b> |                     |                   |                  |                       |                            |               |
| TQS1           | 189-227             | 2 1/2 thru. 3 1/2 | Recip and Scroll | 239-268               | 502                        | TO-5<br>SK3W3 |
| TQS2           | 270-324             | 4 1/2 thru. 6     | Recip and Scroll | 239-268               | 502                        | KS1<br>SK3W6S |

### Hard Start Kits And All In One Hard Start Packs

#### Hard Start Kits



#### Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

| Item ID        | Operating Voltage (VAC) | Recommended range (HP) | Increase in Torque (%) | Replaces           |
|----------------|-------------------------|------------------------|------------------------|--------------------|
| <b>Packard</b> |                         |                        |                        |                    |
| HS5            | 115-277                 | 1/2 to 5               | 300%                   | 32701 600-057 SPP5 |
| HS6            | 115-277                 | 1/2 to 5               | 500%                   | 32702 600-052 SPP6 |
| HS8            | 115-277                 | 1/2 to 5               | 600%                   | 32708 SPP8         |

#### All In One Hard Start Packs



#### Features

- Combination relay, overload and capacitor
- Pre-wired for easy installation
- Extra long compressor leads for mounting flexibility
- Both models adapt to 115 volt compressors with external overload protector

| Item ID        | Compressor Sizes | Volts | Replaces       |
|----------------|------------------|-------|----------------|
| <b>Packard</b> |                  |       |                |
| HS41           | 1/4 and 1/3 HP   | 115   | 600-410 RCO410 |
| HS81           | 1/12 thru 1/5 HP | 115   | 600-810 RCO810 |



# In the heat of the moment don't choose hastily.

The heating season inevitably means more igniter demand. Let Packard be your go-to source.

Our wide igniter selection includes:

- Silicon Carbide
- Round Silicon Nitride
- Universal and specialty hot surface igniter kits.



All directly replace major OEMs. Your dependable ignition choice, ours are built for long lasting durability and work with a wide range of heating applications.

**Build the complete package on your heating orders.**

## Packard Start Capacitors

| Item ID                    | MFD       | Can Size | Industry No. |
|----------------------------|-----------|----------|--------------|
| <b>Packard 110-125 VAC</b> |           |          |              |
| PMJ21                      | 21-25     | 1        | 11002        |
| PMJ25                      | 25-30     | 1        | 11003        |
| PMJ30                      | 30-36     | 1        | 11004        |
| PMJ36                      | 36-43     | 1        | 11005        |
| PMJ43                      | 43-53     | 1        | 11006        |
| PMJ47                      | 47-56     | 1        |              |
| PMJ56                      | 56-75     | 1        | 11007        |
| PMJ64                      | 64-77     | 1        |              |
| PMJ72                      | 72-88     | 1        | 11008        |
| PMJ88                      | 88-108    | 1        | 11009        |
| PMJ108                     | 108-130   | 1        | 11010        |
| PMJ124                     | 124-149   | 1        | 11112        |
| PMJ130                     | 130-156   | 1        | 11112        |
| PMJ145                     | 145-174   | 1        | 11013        |
| PMJ161                     | 161-193   | 1        | 11014        |
| PMJ189                     | 189-227   | 1        | 11015        |
| PMJ200                     | 200-240   | 1        | 11016        |
| PMJ216                     | 216-259   | 1        | 11017        |
| PMJ216A                    | 216-259   | 2        | 11017        |
| PMJ233                     | 233-280   | 1        | 10018        |
| PMJ233A                    | 233-280   | 2        | 10018        |
| PMJ243                     | 243-292   | 1        |              |
| PMJ243A                    | 243-292   | 2        |              |
| PMJ270                     | 270-324   | 1        | 11019        |
| PMJ270A                    | 270-324   | 2        | 11019        |
| PMJ295                     | 295-354   | 1        |              |
| PMJ300                     | 300-360   | 3        | 11020        |
| PMJ324                     | 324-388   | 1        | 11021        |
| PMJ324A                    | 324-388   | 4        | 11021        |
| PMJ324B                    | 324-388   | 2        | 11021        |
| PMJ340                     | 340-408   | 2        | 11022        |
| PMJ340A                    | 340-408   | 4        | 11022        |
| PMJ378                     | 378-455   | 2        | 11023        |
| PMJ378A                    | 378-455   | 4        | 11023        |
| PMJ400                     | 400-480   | 2        | 11024        |
| PMJ400A                    | 400-480   | 4        | 11024        |
| PMJ430                     | 430-516   | 2        |              |
| PMJ430A                    | 430-516   | 4        |              |
| PMJ430B                    | 430-516   | 6        |              |
| PMJ460                     | 460-552   | 2        | 11025        |
| PMJ460A                    | 460-552   | 4        | 11025        |
| PMJ460B                    | 460-552   | 5        | 11025        |
| PMJ540                     | 540-648   | 5        | 11026        |
| PMJ540A                    | 540-648   | 4        | 11026        |
| PMJ590                     | 590-708   | 5        | 11027        |
| PMJ590A                    | 590-708   | 4        | 11027        |
| PMJ645                     | 645-774   | 5        |              |
| PMJ708                     | 708-850   | 5        | 11028        |
| PMJ708A                    | 708-850   | 7        | 11028        |
| PMJ708B                    | 708-850   | 4        | 11028        |
| PMJ800                     | 800-960   | 4        |              |
| PMJ815                     | 815-978   | 5        |              |
| PMJ829                     | 829-995   | 5        | 11029        |
| PMJ829A                    | 829-995   | 7        | 11029        |
| PMJ850                     | 850-1020  | 7        |              |
| PMJ860                     | 860-1032  | 4        |              |
| PMJ1000                    | 1000-1200 | 7        | 11030        |
| PMJ1290                    | 1290-1548 | 7        |              |

| Can Size             | Diameter (In.) | Height (In.) |
|----------------------|----------------|--------------|
| <b>Can Dimension</b> |                |              |
| 1                    | 1 7/16         | 2 3/4        |
| 2                    | 1 7/16         | 3 3/8        |
| 3                    | 1 7/16         | 4 3/8        |
| 4                    | 1 13/16        | 3 3/8        |
| 5                    | 1 13/16        | 4 3/8        |
| 6                    | 2 1/16         | 3 3/8        |
| 7                    | 2 1/16         | 4 3/8        |
| 8                    | 2 9/16         | 4 3/8        |

| Item ID                    | MFD     | Can Size | Industry No. |
|----------------------------|---------|----------|--------------|
| <b>Packard 165 VAC</b>     |         |          |              |
| PSMJ72                     | 72-88   | 1        |              |
| PSMJ88                     | 88-108  | 1        |              |
| PSMJ108                    | 108-130 | 1        |              |
| PSMJ124                    | 124-149 | 1        | 11031        |
| PSMJ130                    | 130-156 | 2        |              |
| PSMJ145                    | 145-174 | 2        | 11032        |
| PSMJ161                    | 161-193 | 2        | 11033        |
| PSMJ189                    | 189-227 | 2        | 11034        |
| PSMJ216                    | 216-259 | 4        |              |
| PSMJ233                    | 233-280 | 4        | 11035        |
| PSMJ243                    | 243-292 | 4        |              |
| PSMJ270                    | 270-324 | 4        | 11036        |
| PSMJ340                    | 340-408 | 4        |              |
| PSMJ378A                   | 378-455 | 5        |              |
| PSMJ400                    | 400-480 | 4        | 11037        |
| PSMJ540                    | 540-648 | 4        |              |
| PSMJ710                    | 710-850 | 6        |              |
| PSMJ710A                   | 710-850 | 7        |              |
| PSMJ810A                   | 810-972 | 7        |              |
| <b>Packard 220-250 VAC</b> |         |          |              |
| PTMJ21                     | 21-25   | 1        | 11038        |
| PTMJ25                     | 25-30   | 1        | 11039        |
| PTMJ30                     | 30-36   | 1        | 11040        |
| PTMJ36                     | 36-43   | 1        | 11041        |
| PTMJ43                     | 43-53   | 1        | 11042        |
| PTMJ43A                    | 43-53   | 2        | 11042        |
| PTMJ47                     | 47-56   | 1        |              |
| PTMJ53                     | 53-64   | 2        |              |
| PTMJ56                     | 56-72   | 1        | 11043        |
| PTMJ56A                    | 56-72   | 1        | 11043        |
| PTMJ59                     | 59-71   | 6        |              |
| PTMJ64                     | 64-77   | 1        |              |
| PTMJ64A                    | 64-77   | 2        |              |
| PTMJ72                     | 72-88   | 4        | 11044        |
| PTMJ86                     | 86-108  | 6        |              |
| PTMJ88                     | 88-108  | 4        | 11045        |
| PTMJ105                    | 105-126 | 6        |              |
| PTMJ108                    | 108-130 | 4        | 11046        |
| PTMJ124                    | 124-149 | 5        | 11148        |
| PTMJ124A                   | 124-149 | 4        | 11148        |
| PTMJ130                    | 130-158 | 4        |              |
| PTMJ130A                   | 130-158 | 5        |              |
| PTMJ145                    | 145-174 | 4        | 11049        |
| PTMJ145A                   | 145-174 | 6        | 11049        |
| PTMJ161                    | 161-193 | 6        | 11050        |
| PTMJ161A                   | 161-193 | 5        | 11050        |
| PTMJ189                    | 189-227 | 6        | 11051        |
| PTMJ189A                   | 189-227 | 7        | 11051        |
| PTMJ216                    | 216-259 | 6        | 11052        |
| PTMJ216A                   | 216-259 | 7        | 11052        |
| PTMJ233                    | 233-280 | 6        | 11053        |
| PTMJ233A                   | 233-280 | 7        | 10053        |
| PTMJ243                    | 243-292 | 6        |              |
| PTMJ270                    | 270-324 | 6        | 11054        |
| PTMJ270A                   | 270-324 | 7        | 11054        |
| PTMJ280                    | 280-336 | 7        |              |
| PTMJ284                    | 284-333 | 8        |              |
| PTMJ320                    | 320-384 | 7        |              |
| PTMJ340                    | 340-408 | 7        |              |
| PTMJ378                    | 378-455 | 8        |              |
| PTMJ400                    | 400-480 | 7        |              |
| PTMJ400A                   | 400-480 | 8        |              |
| PTMJ430                    | 430-516 | 8        |              |
| PTMJ630                    | 630-750 | 8        |              |

Notes:  
 • Please call when dimensions are critical.  
 • \* With resistor



### Features

- Dry, electrolytic, non polarized capacitors for intermittent duty in AC motor starting circuits.
- Cans are made of moisture and oil resistant molded phenolic resin or plastic.
- Standard dual blade terminals.
- Operating temperature range: -40°C to 65°C (-40°F to 149°F)
- UL and cUL recognized
- Rated 3-second start
- 20 Starts per hour
- 50/60 Hertz

| Item ID                | MFD     | Can Size | Industry No. |
|------------------------|---------|----------|--------------|
| <b>Packard 330 VAC</b> |         |          |              |
| PRMJ21                 | 21-25   | 2        | 11055        |
| PRMJ25                 | 25-30   | 2        | 11056        |
| PRMJ30                 | 30-36   | 2        | 11057        |
| PRMJ36                 | 36-43   | 2        | 11058        |
| PRMJ43                 | 43-53   | 4        | 11059        |
| PRMJ47                 | 47-56   | 4        |              |
| PRMJ56                 | 53-64   | 4        | 11060        |
| PRMJ64                 | 64-77   | 4        |              |
| PRMJ72                 | 72-88   | 4        | 11061        |
| PRMJ72A                | 72-88   | 6        | 11061        |
| PRMJ88                 | 88-108  | 6        | 11062        |
| PRMJ108                | 108-130 | 7        | 11063        |
| PRMJ108A               | 108-130 | 6        | 11063        |
| PRMJ108R               | 108-130 | 4        |              |
| PRMJ124                | 124-149 | 7        | 11165        |
| PRMJ130                | 130-158 | 7        | 11064        |
| PRMJ135                | 135-162 | 7        |              |
| PRMJ145                | 145-174 | 7        | 11066        |
| PRMJ145A               | 145-174 | 8        | 11066        |
| PRMJ145R *             | 145-174 | 7        | 11066        |
| PRMJ161                | 161-193 | 7        | 10067        |
| PRMJ189                | 189-227 | 7        | 11068        |
| PRMJ189A               | 189-227 | 8        | 11068        |
| PRMJ216                | 216-259 | 8        | 11069        |
| PRMJ216A               | 216-259 | 7        | 11069        |
| PRMJ243                | 243-292 | 6        |              |
| PRMJ270                | 270-324 | 8        | 11070        |
| PRMJ270R *             | 270-324 | 8        | 11070        |
| PRMJ300                | 300-360 | 8        |              |

## TITAN PRO™ Motor Run Capacitors



TITANPRO™

## Why Go PRO?

OUR ENTIRE PRO LINE HAS UP TO 83% LONGER OPERATIONAL LIFE THAN A STANDARD MOTOR RUN CAPACITOR AND COMPLIES WITH THE EIA-456A INDUSTRY STANDARD FOR ENDURANCE.

440/370 volt

Reduce your inventory costs  
with a Dual Voltage capacitor

Scan to learn more



## Oval

| Item ID                                 | MFD    | Depth<br>(In.) | Width<br>(In.) | Height<br>(In.) | Industry Nos. |       |
|-----------------------------------------|--------|----------------|----------------|-----------------|---------------|-------|
| Titan Pro 440/370 Volt - Single Section |        |                |                |                 |               |       |
| TOCF2                                   | 2      | 1.36           | 2.13           | 1.97            | 12026         | 12002 |
| TOCF2.5                                 | 2.5    | 1.36           | 2.13           | 1.97            | 12019         | —     |
| TOCF3                                   | 3      | 1.36           | 2.13           | 1.97            | 12027         | 12003 |
| TOCF4                                   | 4      | 1.36           | 2.13           | 2.17            | 12028         | 12004 |
| TOCF5                                   | 5      | 1.36           | 2.13           | 2.17            | 12029         | 12005 |
| TOCF6                                   | 6      | 1.36           | 2.13           | 2.17            | 12030         | 12006 |
| TOCF7.5                                 | 7.5    | 1.36           | 2.13           | 2.17            | 12031         | 12007 |
| TOCF10                                  | 10     | 1.36           | 2.13           | 2.56            | 12032         | 12008 |
| TOCF12.5                                | 12.5   | 1.36           | 2.13           | 2.95            | 12033         | 12009 |
| TOCF15                                  | 15     | 1.36           | 2.13           | 2.95            | 12034         | 12010 |
| TOCF17.5                                | 17.5   | 1.36           | 2.13           | 3.74            | 12036         | 12012 |
| TOCF20                                  | 20     | 1.91           | 2.91           | 2.68            | 12037         | 12014 |
| TOCF25                                  | 25     | 1.91           | 2.91           | 3.07            | 12040         | 12015 |
| TOCF30                                  | 30     | 1.91           | 2.91           | 3.46            | 12041         | 12017 |
| TOCF35                                  | 35     | 1.91           | 2.91           | 3.86            | 12043         | 12018 |
| TOCF40                                  | 40     | 1.91           | 2.91           | 4.06            | 12045         | 12021 |
| TOCF45                                  | 45     | 1.91           | 2.91           | 4.45            | 12048         | 12023 |
| TOCF50                                  | 50     | 1.91           | 2.91           | 4.84            | 12049         | 12025 |
| TOCF55                                  | 55     | 1.91           | 2.91           | 5.04            | 12050         | 12024 |
| TOCF60                                  | 60     | 1.97           | 3.66           | 3.78            | 12051         | 12087 |
| Titan Pro 480 Volt - Single Section     |        |                |                |                 |               |       |
| TOCF25A                                 | 25     | 1.91           | 2.91           | 3.66            | —             | —     |
| Titan Pro 440/370 Volt - Dual Section   |        |                |                |                 |               |       |
| TOCFD154                                | 15+4   | 1.91           | 2.91           | 2.68            | 12270         | 12056 |
| TOCFD155                                | 15+5   | 1.91           | 2.91           | 2.68            | 12271         | 12057 |
| TOCFD2015                               | 20+15  | 1.91           | 2.91           | 3.86            | 12083         | 12164 |
| TOCFD255                                | 25+5   | 1.91           | 2.91           | 3.46            | 12184         | 12066 |
| TOCFD2575                               | 25+7.5 | 1.91           | 2.91           | 3.46            | 12182         | 12143 |
| TOCFD2510                               | 25+10  | 1.91           | 2.91           | 3.86            | 12183         | 12167 |
| TOCFD304                                | 30+4   | 1.91           | 2.91           | 3.86            | 12181         | 12145 |
| TOCFD305                                | 30+5   | 1.91           | 2.91           | 3.86            | 12187         | 12069 |
| TOCFD3075                               | 30+7.5 | 1.91           | 2.91           | 3.86            | 12038         | 12146 |
| TOCFD353                                | 35+3   | 1.91           | 2.91           | 4.25            | 12085         | 12148 |
| TOCFD354                                | 35+4   | 1.91           | 2.91           | 4.25            | 12179         | 12071 |
| TOCFD355                                | 35+5   | 1.91           | 2.91           | 4.25            | 12185         | 12072 |
| TOCFD3575                               | 35+7.5 | 1.91           | 2.91           | 4.25            | 12188         | 12149 |
| TOCFD405                                | 40+5   | 1.91           | 2.91           | 4.65            | 12086         | 12171 |
| TOCFD4075                               | 40+7.5 | 1.91           | 2.91           | 4.65            | 12189         | 12152 |
| TOCFD455                                | 45+5   | 1.91           | 2.91           | 5.04            | 12190         | 12174 |
| TOCFD505                                | 50+5   | 1.97           | 3.66           | 4.37            | 12108         | 12138 |
| TOCFD555                                | 55+5   | 1.97           | 3.66           | 4.57            | 12275         | 12154 |
| TOCFD5510                               | 55+10  | 1.97           | 3.66           | 4.76            | 12276         | —     |
| TOCFD605                                | 60+5   | 1.97           | 3.66           | 4.76            | 12109         | 12139 |

## Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.



## Round

| Item ID                                 | MFD    | Diameter (In.) | Height (In.) | Industry Nos. |       |
|-----------------------------------------|--------|----------------|--------------|---------------|-------|
| Titan Pro 440/370 Volt - Single Section |        |                |              |               |       |
| TRCF3                                   | 3      | 1.71           | 1.97         | 12103         | 12803 |
| TRCF5                                   | 5      | 1.71           | 1.97         | 12105         | 12095 |
| TRCF7.5                                 | 7.5    | 1.71           | 2.17         | 12107         | 12097 |
| TRCF10                                  | 10     | 1.91           | 2.17         | 12232         | 12098 |
| TRCF12.5                                | 12.5   | 1.91           | 2.36         | 12233         | 12099 |
| TRCF15                                  | 15     | 1.91           | 2.56         | 12234         | 12210 |
| TRCF17.5                                | 17.5   | 1.91           | 2.76         | 12236         | 12212 |
| TRCF20                                  | 20     | 1.91           | 2.95         | 12237         | 12214 |
| TRCF25                                  | 25     | 2.11           | 2.95         | 12240         | 12215 |
| TRCF30                                  | 30     | 2.11           | 3.35         | 12241         | 12217 |
| TRCF35                                  | 35     | 2.11           | 3.54         | 12243         | 12218 |
| TRCF40                                  | 40     | 2.11           | 3.94         | 12245         | 12221 |
| TRCF45                                  | 45     | 2.11           | 4.33         | 12248         | 12223 |
| TRCF50                                  | 50     | 2.30           | 3.94         | 12251         | 12225 |
| TRCF55                                  | 55     | 2.30           | 4.33         | 12252         | 12226 |
| TRCF60                                  | 60     | 2.30           | 4.53         | 12254         | 12227 |
| TRCF70                                  | 70     | 2.30           | 4.92         | 12258         | 12229 |
| TRCF80                                  | 80     | 2.64           | 4.72         | 12259         | 12199 |
| TRCF100                                 | 100    | 2.36           | 6.30         | —             | —     |
| Titan Pro 440/370 Volt - Dual Section   |        |                |              |               |       |
| TRCFD205                                | 20+5   | 2.11           | 3.35         | 12115         | 12260 |
| TRCFD2015                               | 20+15  | 2.11           | 3.94         | 12112         | 12209 |
| TRCFD255                                | 25+5   | 2.11           | 3.54         | 12278         | 12261 |
| TRCFD2575                               | 25+7.5 | 2.11           | 3.74         | 12279         | 12262 |
| TRCFD2515                               | 25+15  | 2.11           | 4.33         | 12114         | —     |
| TRCFD303                                | 30+3   | 2.11           | 4.33         | 12126         | 12244 |
| TRCFD305                                | 30+5   | 2.11           | 3.94         | 12281         | 12264 |
| TRCFD3075                               | 30+7.5 | 2.11           | 4.13         | 12282         | 12224 |
| TRCFD353                                | 35+3   | 2.11           | 4.53         | 12077         | 12082 |
| TRCFD354                                | 35+4   | 2.11           | 4.53         | 12070         | 12231 |
| TRCFD355                                | 35+5   | 2.11           | 4.13         | 12283         | 12266 |
| TRCFD3575                               | 35+7.5 | 2.11           | 4.33         | 12284         | 12235 |
| TRCFD403                                | 40+3   | 2.11           | 4.72         | 12078         | 12074 |
| TRCFD405                                | 40+5   | 2.64           | 3.74         | 12286         | 12178 |
| TRCFD4075                               | 40+7.5 | 2.64           | 3.74         | 12287         | 12268 |
| TRCFD453                                | 45+3   | 2.64           | 3.74         | 12079         | 12073 |
| TRCFD455                                | 45+5   | 2.64           | 3.74         | 12288         | 12269 |
| TRCFD4575                               | 45+7.5 | 2.64           | 3.74         | 12289         | 12249 |
| TRCFD505                                | 50+5   | 2.64           | 3.94         | 12290         | 12191 |
| TRCFD5075                               | 50+7.5 | 2.64           | 3.94         | 12291         | 12192 |
| TRCFD555                                | 55+5   | 2.64           | 4.13         | 12292         | 12193 |
| TRCFD5575                               | 55+7.5 | 2.64           | 4.13         | 12293         | 12194 |
| TRCFD603                                | 60+3   | 2.64           | 4.33         | 12160         | —     |
| TRCFD605                                | 60+5   | 2.64           | 4.33         | 12294         | 12195 |
| TRCFD6075                               | 60+7.5 | 2.64           | 4.33         | 12295         | 12196 |
| TRCFD6010                               | 60+10  | 2.64           | 4.53         | 12296         | 12265 |
| TRCFD705                                | 70+5   | 2.64           | 4.92         | 12255         | 12053 |
| TRCFD7075                               | 70+7.5 | 2.64           | 4.92         | 12166         | 12054 |
| TRCFD805                                | 80+5   | 2.64           | 5.31         | 12257         | 12197 |
| TRCFD8075                               | 80+7.5 | 2.64           | 5.31         | 12216         | 12198 |
| TRCFD8010                               | 80+10  | 2.64           | 5.31         | 12117         | 12201 |

## TITAN PRO 370™ Motor Run Capacitors

**TITAN PRO 370™** 370 volt offers best value in class

### PRO - series: Features & Benefits

- RELIABLE.** Tested to 60,000 hours
- COMPLIANT.** Built to EIA-456A industry standard for endurance
- CERTIFIED.** Meets UL 810 safety standards
- TESTED.** 100% electrical testing
- ROBUST.** Heat tolerant, high-grade metallized polypropylene film and proprietary Epoxidized Soybean Oil (ESO)



### Round

| Item ID                                    | MFD  | Diameter (In.) | Height (In.) | Industry No |
|--------------------------------------------|------|----------------|--------------|-------------|
| <b>Titan Pro 370 Volt - Single Section</b> |      |                |              |             |
| TRC5                                       | 5    | 1.71           | 1.97         | 12995       |
| TRC7.5                                     | 7.5  | 1.71           | 2.17         | 12997       |
| TRC10                                      | 10   | 1.91           | 2.17         | 12998       |
| TRC12.5                                    | 12.5 | 1.91           | 2.17         | 12999       |
| TRC15                                      | 15   | 1.91           | 2.17         | 12710       |
| TRC17.5                                    | 17.5 | 1.91           | 2.36         | 12712       |
| TRC20                                      | 20   | 1.91           | 2.56         | 12714       |
| TRC25                                      | 25   | 1.91           | 2.95         | 12715       |
| TRC30                                      | 30   | 2.11           | 2.76         | 12717       |
| TRC35                                      | 35   | 2.11           | 2.95         | 12718       |
| TRC40                                      | 40   | 2.11           | 3.35         | 12721       |
| TRC45                                      | 45   | 2.11           | 3.54         | 12723       |
| TRC50                                      | 50   | 2.11           | 3.74         | 12725       |
| TRC55                                      | 55   | 2.11           | 3.94         | 12726       |
| TRC60                                      | 60   | 2.11           | 4.33         | 12727       |
| TRC65                                      | 65   | 2.11           | 4.72         | 12128       |
| TRC70                                      | 70   | 2.30           | 3.94         | 12729       |
| TRC80                                      | 80   | 2.30           | 4.33         | 12899       |
| TRC100                                     | 100  | 2.64           | 4.33         | —           |

|                                          |        |      |      |       |
|------------------------------------------|--------|------|------|-------|
| <b>Titan Pro 370 Volt - Dual Section</b> |        |      |      |       |
| TRCD1010                                 | 10+10  | 3.15 | 1.97 | —     |
| TRCD154                                  | 15+4   | 2.95 | 1.97 | 12702 |
| TRCD155                                  | 15+5   | 2.11 | 2.76 | 12703 |
| TRCD205                                  | 20+5   | 2.11 | 2.76 | 12760 |
| TRCD253                                  | 25+3   | 2.11 | 2.95 | 12711 |
| TRCD254                                  | 25+4   | 2.11 | 2.95 | 12875 |
| TRCD255                                  | 25+5   | 2.11 | 2.95 | 12761 |
| TRCD303                                  | 30+3   | 2.11 | 3.54 | 12720 |
| TRCD304                                  | 30+4   | 2.11 | 3.15 | 12763 |
| TRCD305                                  | 30+5   | 2.11 | 3.35 | 12764 |
| TRCD3075                                 | 30+7.5 | 2.11 | 3.35 | 12724 |
| TRCD353                                  | 35+3   | 2.11 | 3.94 | 12730 |
| TRCD355                                  | 35+5   | 2.11 | 3.54 | 12766 |
| TRCD3575                                 | 35+7.5 | 2.11 | 3.74 | 12735 |
| TRCD403                                  | 40+3   | 2.11 | 4.13 | 12739 |
| TRCD405                                  | 40+5   | 2.11 | 4.13 | 12878 |
| TRCD4075                                 | 40+7.5 | 2.11 | 3.94 | 12768 |
| TRCD455                                  | 45+5   | 2.11 | 4.33 | 12769 |
| TRCD4575                                 | 45+7.5 | 2.11 | 4.33 | 12749 |
| TRCD505                                  | 50+5   | 2.11 | 4.53 | 12755 |
| TRCD5075                                 | 50+7.5 | 2.11 | 4.53 | —     |
| TRCD5010                                 | 50+10  | 2.11 | 4.53 | 12757 |
| TRCD555                                  | 55+5   | 2.64 | 3.74 | 12893 |
| TRCD5575                                 | 55+7.5 | 2.64 | 3.74 | 12894 |
| TRCD605                                  | 60+5   | 2.64 | 3.74 | 12895 |
| TRCD6075                                 | 60+7.5 | 2.64 | 3.74 | 12896 |
| TRCD705                                  | 70+5   | 2.64 | 4.13 | —     |
| TRCD7075                                 | 70+7.5 | 2.64 | 4.13 | —     |
| TRCD805                                  | 80+5   | 2.64 | 4.53 | 12897 |
| TRCD8075                                 | 80+7.5 | 2.64 | 4.33 | —     |
| TRCD8010                                 | 80+10  | 2.64 | 4.33 | —     |

### Oval

| Item ID                                    | MFD  | Depth (In.) | Width (In.) | Height (In.) | Industry No |
|--------------------------------------------|------|-------------|-------------|--------------|-------------|
| <b>Titan Pro 370 Volt - Single Section</b> |      |             |             |              |             |
| TOC2                                       | 2    | 1.36        | 2.13        | 1.97         | 12902       |
| TOC3                                       | 3    | 1.36        | 2.13        | 1.97         | 12903       |
| TOC4                                       | 4    | 1.36        | 2.13        | 2.17         | 12904       |
| TOC5                                       | 5    | 1.36        | 2.13        | 2.17         | 12905       |
| TOC5B                                      | 5    | 1.36        | 2.13        | 2.17         | 12905       |
| TOC6                                       | 6    | 1.36        | 2.13        | 2.17         | 12906       |
| TOC7.5                                     | 7.5  | 1.36        | 2.13        | 2.17         | 12907       |
| TOC7.5B                                    | 7.5  | 1.36        | 2.13        | 2.17         | 12907       |
| TOC10                                      | 10   | 1.36        | 2.13        | 2.56         | 12908       |
| TOC10B                                     | 10   | 1.36        | 2.13        | 2.56         | 12908       |
| TOC12.5                                    | 12.5 | 1.36        | 2.13        | 2.95         | 12909       |
| TOC15                                      | 15   | 1.36        | 2.13        | 2.95         | 12910       |
| TOC17.5                                    | 17.5 | 1.36        | 2.13        | 3.35         | 12912       |
| TOC20                                      | 20   | 1.91        | 2.91        | 2.68         | 12914       |
| TOC25                                      | 25   | 1.91        | 2.91        | 2.68         | 12915       |
| TOC30                                      | 30   | 1.91        | 2.91        | 2.87         | 12917       |
| TOC35                                      | 35   | 1.91        | 2.91        | 3.27         | 12918       |
| TOC40                                      | 40   | 1.91        | 2.91        | 3.46         | 12921       |
| TOC45                                      | 45   | 1.91        | 2.91        | 3.66         | 12923       |
| TOC50                                      | 50   | 1.91        | 2.91        | 3.86         | 12925       |
| TOC55                                      | 55   | 1.91        | 2.91        | 4.06         | 12924       |
| TOC60                                      | 60   | 1.91        | 2.91        | 4.45         | 12987       |
| TOC70                                      | 70   | 1.91        | 2.91        | 5.04         | 12989       |
| TOC80                                      | 80   | 1.97        | 3.66        | 3.78         | 12990       |
| <b>Titan Pro 370 Volt - Dual Section</b>   |      |             |             |              |             |
| TOCD153                                    | 15+3 | 1.91        | 2.91        | 2.68         | 12841       |
| TOCD155                                    | 15+5 | 1.91        | 2.91        | 2.68         | 12957       |
| TOCD255                                    | 25+5 | 1.91        | 2.91        | 3.07         | 12966       |
| TOCD305                                    | 30+5 | 1.91        | 2.91        | 3.27         | 12969       |
| TOCD353                                    | 35+3 | 1.91        | 2.91        | 3.46         | 12848       |
| TOCD355                                    | 35+5 | 1.91        | 2.91        | 3.46         | 12972       |
| TOCD405                                    | 40+5 | 1.91        | 2.91        | 3.86         | 12871       |
| TOCD455                                    | 45+5 | 1.91        | 2.91        | 4.25         | 12874       |

#### Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.





## TITAN HD™ Oval Motor Run Capacitors

### Features

- Made to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA



### Single Section - Oval

| Item ID                  | MFD  | Can Size | Industry No. |
|--------------------------|------|----------|--------------|
| <b>Titan HD 370 Volt</b> |      |          |              |
| POC2A                    | 2    | 1        | 12002        |
| POC3A                    | 3    | 2        | 12003        |
| POC4A                    | 4    | 2        | 12004        |
| POC5A                    | 5    | 2        | 12005        |
| POC6A                    | 6    | 2        | 12006        |
| POC7.5A                  | 7.5  | 2        | 12007        |
| POC10A                   | 10   | 3        | 12008        |
| POC12.5A                 | 12.5 | 3        | 12009        |
| POC15A                   | 15   | 3        | 12010        |
| POC17.5A                 | 17.5 | 3        | 12012        |
| POC20A                   | 20   | 3        | 12014        |
| POC25A                   | 25   | 3        | 12015        |
| POC30A                   | 30   | 4        | 12017        |
| POC35A                   | 35   | 9        | 12018        |
| POC40A                   | 40   | 12       | 12021        |
| POC45A                   | 45   | 12       | 12023        |
| POC50A                   | 50   | 8        | 12025        |
| POC55A                   | 55   | 8        | 12024        |
| POC60A                   | 60   | 20       | 12087        |
| POC70A                   | 70   | 21       | 12089        |
| POC80A                   | 80   | 8        | 12090        |

|                          |      |    |       |
|--------------------------|------|----|-------|
| <b>Titan HD 440 Volt</b> |      |    |       |
| POCF2A                   | 2    | 2  | 12026 |
| POCF2.5A                 | 2.5  | 2  | 12019 |
| POCF3A                   | 3    | 2  | 12027 |
| POCF4A                   | 4    | 2  | 12028 |
| POCF5A                   | 5    | 2  | 12029 |
| POCF6A                   | 6    | 2  | 12030 |
| POCF7.5A                 | 7.5  | 3  | 12031 |
| POCF10A                  | 10   | 3  | 12032 |
| POCF12.5A                | 12.5 | 3  | 12033 |
| POCF15A                  | 15   | 3  | 12034 |
| POCF17.5A                | 17.5 | 9  | 12036 |
| POCF20A                  | 20   | 4  | 12037 |
| POCF25B                  | 25   | 4  | 12040 |
| POCF30A                  | 30   | 5  | 12041 |
| POCF35A                  | 35   | 5  | 12043 |
| POCF40A                  | 40   | 5  | 12045 |
| POCF45A                  | 45   | 8  | 12048 |
| POCF50A                  | 50   | 8  | 12049 |
| POCF55A                  | 55   | 8  | 12050 |
| POCF60A                  | 60   | 13 | 12051 |
| POCF70A                  | 70   | 13 | 12130 |
| POCF80A                  | 80   | 13 | 12140 |

### Dual Section - Oval

| Item ID                  | MFD    | Can Size | Industry No. |
|--------------------------|--------|----------|--------------|
| <b>Titan HD 370 Volt</b> |        |          |              |
| POCD153A                 | 15+3   | 6        | 12141        |
| POCD154A                 | 15+4   | 6        | 12056        |
| POCD155A                 | 15+5   | 6        | 12057        |
| POCD1510A                | 15+10  | 6        | 12058        |
| POCD1755A                | 17.5+5 | 6        | 12060        |
| POCD203A                 | 20+3   | 6        | 12061        |
| POCD204A                 | 20+4   | 6        | 12062        |
| POCD205A                 | 20+5   | 6        | 12063        |
| POCD2010A                | 20+10  | 7        | 12064        |
| POCD2015A                | 20+15  | 7        | 12164        |
| POCD253A                 | 25+3   | 7        | 12142        |
| POCD254A                 | 25+4   | 7        | 12065        |
| POCD255A                 | 25+5   | 6        | 12066        |
| POCD2575A                | 25+7.5 | 6        | 12143        |
| POCD258A                 | 25+8   | 7        | 12131        |
| POCD2510A                | 25+10  | 6        | 12167        |
| POCD2515A                | 25+15  | 10       | 12133        |
| POCD303A                 | 30+3   | 10       | 12144        |
| POCD305A                 | 30+5   | 8        | 12069        |
| POCD3075A                | 30+7.5 | 10       | 12146        |
| POCD3010A                | 30+10  | 8        | 12147        |
| POCD353A                 | 35+3   | 10       | 12148        |
| POCD354A                 | 35+4   | 10       | 12071        |
| POCD355A                 | 35+5   | 8        | 12072        |
| POCD3575A                | 35+7.5 | 10       | 12149        |
| POCD3510A                | 35+10  | 8        | 12150        |
| POCD403A                 | 40+3   | 11       | 12151        |
| POCD404A                 | 40+4   | 11       | 12158        |
| POCD405A                 | 40+5   | 8        | 12171        |
| POCD4075A                | 40+7.5 | 8        | 12152        |
| POCD4010A                | 40+10  | 8        | 12134        |
| POCD455A                 | 45+5   | 8        | 12174        |
| POCD4575A                | 45+7.5 | 8        | 12153        |
| POCD4510A                | 45+10  | 14       | 12136        |
| POCD4515A                | 45+15  | 14       | 12137        |
| POCD505A                 | 50+5   | 14       | 12138        |
| POCD555A                 | 55+5   | 14       | 12154        |
| POCD5575A                | 55+7.5 | 14       | 12155        |
| POCD605A                 | 60+5   | 14       | 12139        |
| POCD6075A                | 60+7.5 | 13       | 12156        |
| POCD6010A                | 60+10  | 14       | 12157        |

#### Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

| Can Size             | Depth (In.) | Width (In.) | Height (In.) |
|----------------------|-------------|-------------|--------------|
| <b>Can Dimension</b> |             |             |              |
| 1                    | 2           | 1.25        | 1.5          |
| 2                    | 2           | 1.25        | 1.56         |
| 3                    | 2           | 1.25        | 2.19         |
| 4                    | 2           | 1.25        | 2.88         |
| 5                    | 2           | 1.25        | 3.75         |
| 6                    | 2.75        | 1.75        | 2.38         |
| 7                    | 2.75        | 1.75        | 2.75         |
| 8                    | 2.75        | 1.75        | 2.91         |
| 9                    | 2.75        | 1.75        | 3.13         |
| 10                   | 2.75        | 1.75        | 3.25         |
| 11                   | 2.75        | 1.75        | 3.75         |
| 12                   | 2.75        | 1.75        | 3.88         |
| 13                   | 2.75        | 1.75        | 3.91         |
| 14                   | 2.75        | 1.75        | 4.25         |
| 15                   | 2.75        | 1.75        | 4.75         |
| 16                   | 2.75        | 1.75        | 4.91         |
| 17                   | 2.75        | 1.75        | 5.78         |
| 18                   | 2.75        | 1.85        | 2.91         |
| 19                   | 3.5         | 1.75        | 5.78         |
| 20                   | 3.5         | 2           | 2.75         |
| 21                   | 3.5         | 2           | 3.25         |
| 22                   | 3.5         | 2           | 4.75         |
| 23                   | 3.5         | 2           | 5.88         |

### Dual Section - Oval

| Item ID                  | MFD    | Can Size | Industry No. |
|--------------------------|--------|----------|--------------|
| <b>Titan HD 440 Volt</b> |        |          |              |
| POCFD105A                | 10+5   | 6        | 12165        |
| POCFD154A                | 15+4   | 6        | 12270        |
| POCFD155A                | 15+5   | 6        | 12271        |
| POCFD1510A               | 15+10  | 7        | 12177        |
| POCFD205A                | 20+5   | 7        | 12180        |
| POCFD2015A               | 20+15  | 8        | 12083        |
| POCFD255A                | 25+5   | 8        | 12184        |
| POCFD2575A               | 25+7.5 | 11       | 12182        |
| POCFD2510A               | 25+10  | 10       | 12183        |
| POCFD2515A               | 25+15  | 11       | 12186        |
| POCFD304A                | 30+4   | 8        | 12181        |
| POCFD305A                | 30+5   | 8        | 12187        |
| POCFD3075A               | 30+7.5 | 8        | 12038        |
| POCFD3010A               | 30+10  | 11       | 12035        |
| POCFD353A                | 35+3   | 14       | 12085        |
| POCFD354A                | 35+4   | 11       | 12179        |
| POCFD355A                | 35+5   | 8        | 12185        |
| POCFD3575A               | 35+7.5 | 8        | 12188        |
| POCFD3510A               | 35+10  | 14       | 12272        |
| POCFD403A                | 40+3   | 15       | 12080        |
| POCFD405A                | 40+5   | 13       | 12086        |
| POCFD4075A               | 40+7.5 | 13       | 12189        |
| POCFD4010A               | 40+10  | 13       | 12273        |
| POCFD455A                | 45+5   | 13       | 12190        |
| POCFD4575A               | 45+7.5 | 13       | 12274        |
| POCFD505A                | 50+5   | 13       | 12108        |
| POCFD5075A               | 50+7.5 | 22       | 12013        |
| POCFD555A                | 55+5   | 16       | 12275        |
| POCFD5510A               | 55+10  | 16       | 12276        |
| POCFD605A                | 60+5   | 16       | 12109        |
| POCFD6510A               | 65+10  | 23       | 12101        |
| POCFD805A                | 80+5   | 19       | 12297        |
| POCFD8075A               | 80+7.5 | 19       | 12298        |



## TITAN HD™ Round Motor Run Capacitors



### Single Section - Round

| Item ID                  | MFD  | Can Size | Industry No. |
|--------------------------|------|----------|--------------|
| <b>Titan HD 370 Volt</b> |      |          |              |
| PRC5A                    | 5    | 1        | 12095        |
| PRC7.5A                  | 7.5  | 1        | 12097        |
| PRC10A                   | 10   | 1        | 12098        |
| PRC12.5A                 | 12.5 | 1        | 12099        |
| PRC15A                   | 15   | 1        | 12210        |
| PRC17.5A                 | 17.5 | 2        | 12212        |
| PRC20A                   | 20   | 1        | 12214        |
| PRC25A                   | 25   | 1        | 12215        |
| PRC30A                   | 30   | 1        | 12217        |
| PRC31.5A                 | 31.5 | 7        | —            |
| PRC35A                   | 35   | 3        | 12218        |
| PRC40A                   | 40   | 3        | 12221        |
| PRC45A                   | 45   | 3        | 12223        |
| PRC50A                   | 50   | 10       | 12225        |
| PRC55A                   | 55   | 12       | 12226        |
| PRC60A                   | 60   | 5        | 12227        |
| PRC70A                   | 70   | 14       | 12229        |
| PRC80A                   | 80   | 11       | 12199        |
| PRC100A                  | 100  | 15       | 12116        |
| <b>Titan HD 440 Volt</b> |      |          |              |
| PRCF5A                   | 5    | 1        | 12105        |
| PRCF7.5A                 | 7.5  | 1        | 12107        |
| PRCF10A                  | 10   | 1        | 12232        |
| PRCF12.5A                | 12.5 | 1        | 12233        |
| PRCF15A                  | 15   | 1        | 12234        |
| PRCF17.5A                | 17.5 | 4        | 12236        |
| PRCF20A                  | 20   | 1        | 12237        |
| PRCF25A                  | 25   | 1        | 12240        |
| PRCF30A                  | 30   | 1        | 12241        |
| PRCF35A                  | 35   | 5        | 12243        |
| PRCF40A                  | 40   | 5        | 12245        |
| PRCF45A                  | 45   | 5        | 12248        |
| PRCF50A                  | 50   | 11       | 12251        |
| PRCF55A                  | 55   | 11       | 12252        |
| PRCF60A                  | 60   | 11       | 12254        |
| PRCF65A                  | 65   | 17       | —            |
| PRCF70A                  | 70   | 13       | 12258        |
| PRCF80A                  | 80   | 13       | 12259        |
| PRCF90A                  | 90   | 21       | 12068        |

| Can Size             | Diameter (In.) | Height (In.) |
|----------------------|----------------|--------------|
| <b>Can Dimension</b> |                |              |
| 1                    | 1.75           | 2.38         |
| 2                    | 1.75           | 2.75         |
| 3                    | 1.75           | 2.88         |
| 4                    | 1.75           | 3.25         |
| 5                    | 1.75           | 3.75         |
| 6                    | 2              | 2.63         |
| 7                    | 2              | 2.75         |
| 8                    | 2              | 2.88         |
| 9                    | 2              | 3.25         |
| 10                   | 2              | 3.75         |
| 11                   | 2              | 3.88         |
| 12                   | 2              | 4.25         |
| 13                   | 2              | 4.75         |
| 14                   | 2              | 5.25         |
| 15                   | 2.5            | 2.88         |
| 16                   | 2.5            | 3.25         |
| 17                   | 2.5            | 3.75         |
| 18                   | 2.5            | 3.91         |
| 19                   | 2.5            | 4.25         |
| 20                   | 2.5            | 4.75         |
| 21                   | 2.5            | 5.88         |

### Dual Section - Round

| Item ID                  | MFD     | Can Size | Industry No. |
|--------------------------|---------|----------|--------------|
| <b>Titan HD 370 Volt</b> |         |          |              |
| PRCD253A                 | 25+3    | 6        | 12242        |
| PRCD254A                 | 25+4    | 9        | 12175        |
| PRCD255A                 | 25+5    | 6        | 12261        |
| PRCD303A                 | 30+3    | 6        | 12244        |
| PRCD304A                 | 30+4    | 6        | 12263        |
| PRCD305A                 | 30+5    | 6        | 12264        |
| PRCD3075A                | 30+7.5  | 6        | 12224        |
| PRCD3010A                | 30+10   | 6        | 12228        |
| PRCD353A                 | 35+3    | 6        | 12082        |
| PRCD354A                 | 35+4    | 6        | 12231        |
| PRCD355A                 | 35+5    | 6        | 12266        |
| PRCD3575A                | 35+7.5  | 9        | 12235        |
| PRCD3510A                | 35+10   | 8        | 12238        |
| PRCD403A                 | 40+3    | 8        | 12074        |
| PRCD404A                 | 40+4    | 10       | 12267        |
| PRCD405A                 | 40+5    | 8        | 12178        |
| PRCD4075A                | 40+7.5  | 8        | 12268        |
| PRCD4010A                | 40+10   | 10       | 12246        |
| PRCD453A                 | 45+3    | 8        | 12073        |
| PRCD455A                 | 45+5    | 8        | 12269        |
| PRCD4575A                | 45+7.5  | 8        | 12249        |
| PRCD4510A                | 45+10   | 10       | 12250        |
| PRCD503A                 | 50+3    | 8        | 12075        |
| PRCD505A                 | 50+5    | 8        | 12191        |
| PRCD5075A                | 50+7.5  | 8        | 12192        |
| PRCD5010A                | 50+10   | 8        | 12239        |
| PRCD555A                 | 55+5    | 8        | 12193        |
| PRCD5575A                | 55+7.5  | 8        | 12194        |
| PRCD5510A                | 55+10   | 11       | 12067        |
| PRCD605A                 | 60+5    | 11       | 12195        |
| PRCD6075A                | 60+7.5  | 11       | 12196        |
| PRCD6010A                | 60+10   | 11       | 12265        |
| PRCD805A                 | 80+5    | 11       | 12197        |
| PRCD8075A                | 80+7.5  | 15       | 12198        |
| PRCD8010A                | 80+10   | 17       | 12201        |
| PRCD80125A               | 80+12.5 | 19       | 12202        |

### Features

- Made to EIA-456A standards
- Up to 60,000 hours operational life
- Aluminum cans filled with soybean based oil
- UL-801 fault current protection
- RoHS compliant
- Approval certifications: UL, cUL, IEC 60252
- MADE IN USA

### Dual Section - Round

| Item ID                  | MFD     | Can Size | Industry No. |
|--------------------------|---------|----------|--------------|
| <b>Titan HD 440 Volt</b> |         |          |              |
| PRCFD105A                | 10+5    | 7        | 12111        |
| PRCFD205A                | 20+5    | 6        | 12115        |
| PRCFD2015A               | 20+15   | 8        | 12112        |
| PRCFD253A                | 25+3    | 9        | —            |
| PRCFD255A                | 25+5    | 6        | 12278        |
| PRCFD2575A               | 25+7.5  | 8        | 12279        |
| PRCFD2510A               | 25+10   | 10       | 12113        |
| PRCFD2515A               | 25+15   | 13       | 12114        |
| PRCFD303A                | 30+3    | 8        | 12126        |
| PRCFD304A                | 30+4    | 8        | 12120        |
| PRCFD305A                | 30+5    | 8        | 12281        |
| PRCFD3075A               | 30+7.5  | 8        | 12282        |
| PRCFD353A                | 35+3    | 8        | 12077        |
| PRCFD354A                | 35+4    | 8        | 12070        |
| PRCFD355A                | 35+5    | 8        | 12283        |
| PRCFD356A                | 35+6    | 8        | 12119        |
| PRCFD3575A               | 35+7.5  | 8        | 12284        |
| PRCFD3510A               | 35+10   | 9        | —            |
| PRCFD403A                | 40+3    | 8        | 12078        |
| PRCFD404A                | 40+4    | 16       | 12285        |
| PRCFD405A                | 40+5    | 11       | 12286        |
| PRCFD406A                | 40+6    | 16       | 12220        |
| PRCFD4075A               | 40+7.5  | 11       | 12287        |
| PRCFD4010A               | 40+10   | 9        | —            |
| PRCFD453A                | 45+3    | 11       | 12079        |
| PRCFD455A                | 45+5    | 11       | 12288        |
| PRCFD456A                | 45+6    | 17       | 12127        |
| PRCFD4575A               | 45+7.5  | 11       | 12289        |
| PRCFD4510A               | 45+10   | 9        | —            |
| PRCFD505A                | 50+5    | 11       | 12290        |
| PRCFD5075A               | 50+7.5  | 11       | 12291        |
| PRCFD555A                | 55+5    | 11       | 12292        |
| PRCFD5575A               | 55+7.5  | 11       | 12293        |
| PRCFD5510A               | 55+10   | 15       | 12799        |
| PRCFD605A                | 60+5    | 15       | 12294        |
| PRCFD6075A               | 60+7.5  | 15       | 12295        |
| PRCFD6010A               | 60+10   | 15       | 12296        |
| PRCFD60125A              | 60+12.5 | 20       | 12161        |
| PRCFD705A                | 70+5    | 18       | 12255        |
| PRCFD7075A               | 70+7.5  | 18       | 12166        |
| PRCFD7010A               | 70+10   | 18       | 12169        |
| PRCFD805A                | 80+5    | 18       | 12257        |
| PRCFD8075A               | 80+7.5  | 18       | 12216        |
| PRCFD8010A               | 80+10   | 18       | 12117        |

### Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Please call when dimensions are critical.

## Packard Dry AC Motor Run Capacitors



### Features

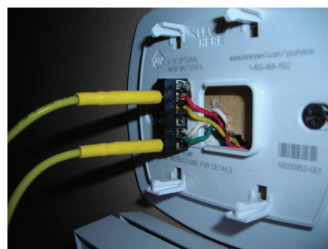
- Commonly used on motors in fans, pumps and blowers
- Constructed with Self-Healing Dielectric Metalized Polypropylene Film
- 1/4 inch blade quick connect terminals; Metal tab mounting bracket
- Operating temperature range: -40°C to 85°C (-40°F to 185°F)
- Capacitance tolerance: +/-5%
- Protected 10,000 AFC
- Available in 370 and 440 Volt
- 50/60 Hertz
- Plastic ABS case
- UL recognized
- RoHS compliant

| Item ID        | MFD  | VAC | Hertz | Shape     | Height (In.) | Length (In.) | Width (In.) | Weight (Lbs) | Terminals             | Temp. Range (C) | Construction     | For Use With    |
|----------------|------|-----|-------|-----------|--------------|--------------|-------------|--------------|-----------------------|-----------------|------------------|-----------------|
| <b>Packard</b> |      |     |       |           |              |              |             |              |                       |                 |                  |                 |
| PDC2           | 2    | 370 | 50/60 | Rectangle | 1.80         | 0.79         | 1.50        | 0.05         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC3           | 3    | 370 | 50/60 | Rectangle | 1.80         | 0.79         | 1.50        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC4           | 4    | 370 | 50/60 | Rectangle | 2.00         | 0.94         | 2.00        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC5           | 5    | 370 | 50/60 | Rectangle | 2.00         | 0.94         | 2.00        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC7.5         | 7.5  | 370 | 50/60 | Rectangle | 2.20         | 1.10         | 1.92        | 0.09         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC8           | 8    | 370 | 50/60 | Rectangle | 2.20         | 1.10         | 1.92        | 0.09         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC10          | 10   | 370 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.10         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC12.5        | 12.5 | 370 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.12         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDC15          | 15   | 370 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.13         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF2          | 2    | 440 | 50/60 | Rectangle | 1.80         | 0.79         | 1.50        | 0.05         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF3          | 3    | 440 | 50/60 | Rectangle | 1.80         | 0.79         | 1.50        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF4          | 4    | 440 | 50/60 | Rectangle | 2.00         | 0.94         | 2.00        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF5          | 5    | 440 | 50/60 | Rectangle | 2.00         | 0.94         | 2.00        | 0.06         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF7.5        | 7.5  | 440 | 50/60 | Rectangle | 2.20         | 1.10         | 1.92        | 0.09         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF8          | 8    | 440 | 50/60 | Rectangle | 2.20         | 1.10         | 1.92        | 0.09         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF10         | 10   | 440 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.11         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF12.5       | 12.5 | 440 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.12         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |
| PDCF15         | 15   | 440 | 50/60 | Rectangle | 2.44         | 1.25         | 2.36        | 0.14         | 2 Blade quick connect | -40 to 85       | Plastic ABS case | Electric motors |

## Magjumper - The Magnetic Jumper

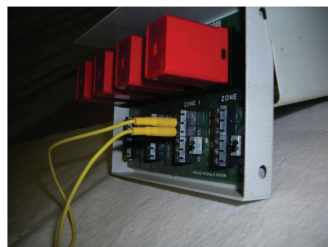


Scan to  
learn more



### Features

- Ideal for low voltage trouble shooting
- Designed by and for service technicians
- No more popping off terminals
- Great for recessed terminals



| Item ID       | Description                          |
|---------------|--------------------------------------|
| <b>Evolve</b> |                                      |
| EJMP          | Magjumper Mag 1 - Yellow Tip (Shown) |
| EJMPB         | Magjumper Mag 1 - Blue Tip           |
| EJMPG         | Magjumper Mag 1 - Green Tip          |
| EJMPP         | Magjumper Mag 1 - Red Tip            |
| EJMPK         | Magjumper Mag 1 - Black Tip          |



Maximum dependability in a “one for one” replacement for the Furnas DP contactor and many more.



Scan to learn more



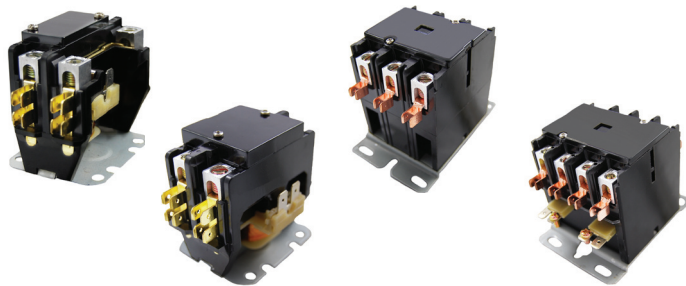
## Features

- Universal metal mounting plate allows for complete ease of replacement
- Long electrical life; tested to 250,000 cycles
- Reliable mechanical life; tested to 1,000,000 cycles
- EE magnet assembly assures optimal performance without sacrificing power consumption
- Superior copper coil
- Performance unaffected by mounting position
- Flexible termination options suitable for various applications
- Dust-free internal construction
- OEM approved
- Meets the ARI 780/790 standard

| Item ID          | F/L Inductive Amps | Locked Rotor Amps<br>240/277/480/600 | Resistive Amps | Coil Voltage | Industry No. | Furnas Replacment |                    |
|------------------|--------------------|--------------------------------------|----------------|--------------|--------------|-------------------|--------------------|
| Titan Max 1 Pole |                    |                                      |                |              |              |                   |                    |
| TMX125A          | 25                 | 150                                  | 35             | 24           | 61315        | 45DG10AJA         |                    |
| TMX125B          | 25                 | 150                                  | 35             | 120          | 61316        | 45DG10AFA         |                    |
| TMX125C          | 25                 | 150                                  | 35             | 208/240      | 61317        | 45DG10AGA         |                    |
| TMX130A          | 30                 | 180/150/120                          | 40             | 24           | 61320        | 45EG10AJA         | 45EG10AJAL         |
| TMX130B          | 30                 | 180/150/120                          | 40             | 120          | 61321        | 45EG10AFA         |                    |
| TMX130C          | 30                 | 180/150/120                          | 40             | 208/240      | 61322        | 45EG10AGA         |                    |
| TMX140A          | 40                 | 240/200                              | 50             | 24           | 61330        | 45GG10AJA         | 45GG10AJAL         |
| TMX140B          | 40                 | 240/200                              | 50             | 120          | —            | 45GG10AFA         | 45GG10AFAL         |
| TMX140C          | 40                 | 240/200                              | 50             | 208/240      | —            | 45GG10AGA         |                    |
| Titan Max 2 Pole |                    |                                      |                |              |              |                   |                    |
| TMX225A          | 25                 | 150/125/100                          | 35             | 24           | 61410        | 42AF15AJ          | 45DG20AJ           |
| TMX225B          | 25                 | 150/125/100                          | 35             | 120          | 61411        | 42AF15AF          | 45DG20AF           |
| TMX225C          | 25                 | 150/125/100                          | 35             | 208/240      | 61412        | 42AF15AG          | 45DG20AG           |
| TMX230A          | 30                 | 180/150/120                          | 40             | 24           | 61425        | 42BF15AJ          | 45EG20AJ 45EG20AJL |
| TMX230B          | 30                 | 180/150/120                          | 40             | 120          | 61426        | 42BF15AF          | 45EG20AF 45EG20AFL |
| TMX230C          | 30                 | 180/150/120                          | 40             | 208/240      | 61427        | 42BF15AG          | 45EG20AG 45EG20AGL |
| TMX240A          | 40                 | 240/200/160                          | 50             | 24           | 61440        | 42CF15AJ          | 45GG20AJ 45GG20AJL |
| TMX240B          | 40                 | 240/200/160                          | 50             | 120          | 61441        | 42CF15AF          | 45GG20AFL          |
| TMX240C          | 40                 | 240/200/160                          | 50             | 208/240      | 61442        | 42CF15AG          | 45GG20AG 45GG20AGL |
| Titan Max 3 Pole |                    |                                      |                |              |              |                   |                    |
| TMX330A          | 30                 | 180/150/120                          | 40             | 24           | 61430        | 42BF35AJ          |                    |
| TMX330B          | 30                 | 180/150/120                          | 40             | 120          | 61431        | 42BF35AF          |                    |
| TMX330C          | 30                 | 180/150/120                          | 40             | 208/240      | 61432        | 42BF35AG          |                    |
| TMX340A          | 40                 | 240/200/160                          | 50             | 24           | 61445        | 42CF35AJ          |                    |
| TMX340B          | 40                 | 240/200/160                          | 50             | 120          | 61446        | 42CF35AF          |                    |
| TMX340C          | 40                 | 240/200/160                          | 50             | 208/240      | 61447        | 42CF35AG          |                    |
| TMX350A          | 50                 | 300/250/200                          | 63             | 24           | 61460        | 42DF35AJ          |                    |
| TMX350B          | 50                 | 300/250/200                          | 63             | 120          | 61461        | 42DF35AF          |                    |
| TMX350C          | 50                 | 300/250/200                          | 63             | 208/240      | 61462        | 42DF35AG          |                    |
| TMX360A          | 60                 | 360/300/240                          | 75             | 24           | 61470        | 42EF35AJ          |                    |
| TMX360B          | 60                 | 360/300/240                          | 75             | 120          | 61471        | 42EF35AF          |                    |
| TMX360C          | 60                 | 360/300/240                          | 75             | 208/240      | 61472        | 42EF35AG          |                    |
| TMX375A          | 75                 | 450/375/300                          | 94             | 24           | 61480        | 42FE35AJ106       |                    |
| TMX375B          | 75                 | 450/375/300                          | 94             | 120          | 61481        | 42FE35AF106       |                    |
| TMX375C          | 75                 | 450/375/300                          | 94             | 208/240      | 61482        | 42FE35AG106       |                    |
| TMX390A          | 90                 | 540/450/360                          | 120            | 24           | 61490        | 42GE35AJ106       |                    |
| TMX390B          | 90                 | 540/450/360                          | 120            | 120          | 61491        | 42GE35AF106       |                    |
| TMX390C          | 90                 | 540/450/360                          | 120            | 208/240      | 61492        | 42GE35AG106       |                    |



## Definite Purpose Contactors



### Features

Contactors meet UL508 specifications for devices up to 600 VAC.

- 50/60 Hertz •  US
- Coils have class B insulation
- Includes lugs, spade terminals and covers

| Item ID               | Poles | F/L Inductive Amps | Locked Rotor Amps<br>240.277/480/600 | Resistive Amps | Coil Voltage |
|-----------------------|-------|--------------------|--------------------------------------|----------------|--------------|
| <b>Packard 1 Pole</b> |       |                    |                                      |                |              |
| C125A                 | 1     | 25                 | 150/125/100                          | 30             | 24           |
| C125B                 | 1     | 25                 | 150/125/100                          | 30             | 120          |
| C125C                 | 1     | 25                 | 150/125/100                          | 30             | 208/240      |
| C130A                 | 1     | 30                 | 180/150/120                          | 40             | 24           |
| C130B                 | 1     | 30                 | 180/150/120                          | 40             | 120          |
| C130C                 | 1     | 30                 | 180/150/120                          | 40             | 208/240      |
| C140A                 | 1     | 40                 | 240/200/160                          | 50             | 24           |
| C140B                 | 1     | 40                 | 240/200/160                          | 50             | 120          |
| C140C                 | 1     | 40                 | 240/200/160                          | 50             | 208/240      |
| <b>Packard 2 Pole</b> |       |                    |                                      |                |              |
| C220A                 | 2     | 20                 | 120/100/80                           | 30             | 24           |
| C220B                 | 2     | 20                 | 120/100/80                           | 30             | 120          |
| C220C                 | 2     | 20                 | 120/100/80                           | 30             | 208/240      |
| C225A                 | 2     | 25                 | 150/125/100                          | 35             | 24           |
| C225B                 | 2     | 25                 | 150/125/100                          | 35             | 120          |
| C225C                 | 2     | 25                 | 150/125/100                          | 35             | 208/240      |
| C230A                 | 2     | 30                 | 180/150/120                          | 40             | 24           |
| C230B                 | 2     | 30                 | 180/150/120                          | 40             | 120          |
| C230C                 | 2     | 30                 | 180/150/120                          | 40             | 208/240      |
| C230D *               | 2     | 30                 | 180/150/120                          | 40             | 208/240      |
| C230E                 | 2     | 30                 | 180/150/120                          | 40             | 277          |
| C240A                 | 2     | 40                 | 240/200/160                          | 50             | 24           |
| C240B                 | 2     | 40                 | 240/200/160                          | 50             | 120          |
| C240C                 | 2     | 40                 | 240/200/160                          | 50             | 208/240      |
| C240E                 | 2     | 40                 | 240/200/160                          | 50             | 277          |

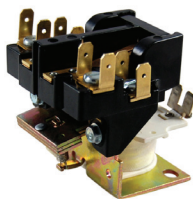
| Item ID               | Poles | F/L Inductive Amps | Locked Rotor Amps<br>240.277/480/600 | Resistive Amps | Coil Voltage |
|-----------------------|-------|--------------------|--------------------------------------|----------------|--------------|
| <b>Packard 3 Pole</b> |       |                    |                                      |                |              |
| C325A                 | 3     | 25                 | 150/125/100                          | 35             | 24           |
| C325B                 | 3     | 25                 | 150/125/100                          | 35             | 120          |
| C325C                 | 3     | 25                 | 150/125/100                          | 35             | 208/240      |
| C330A                 | 3     | 30                 | 180/150/120                          | 40             | 24           |
| C330B                 | 3     | 30                 | 180/150/120                          | 40             | 120          |
| C330C                 | 3     | 30                 | 180/150/120                          | 40             | 208/240      |
| C330E                 | 3     | 30                 | 180/150/120                          | 40             | 277          |
| C330F                 | 3     | 30                 | 180/150/120                          | 40             | 480          |
| C340A                 | 3     | 40                 | 240/200/160                          | 50             | 24           |
| C340B                 | 3     | 40                 | 240/200/160                          | 50             | 120          |
| C340C                 | 3     | 40                 | 240/200/160                          | 50             | 208/240      |
| C340E                 | 3     | 40                 | 240/200/160                          | 50             | 277          |
| C340F                 | 3     | 40                 | 240/200/160                          | 50             | 480          |
| C350A                 | 3     | 50                 | 300/250/200                          | 65             | 24           |
| C350B                 | 3     | 50                 | 300/250/200                          | 65             | 120          |
| C350C                 | 3     | 50                 | 300/250/200                          | 65             | 208/240      |
| C350F                 | 3     | 50                 | 300/250/200                          | 65             | 480          |
| C360A                 | 3     | 60                 | 360/300/240                          | 75             | 24           |
| C360B                 | 3     | 60                 | 360/300/240                          | 75             | 120          |
| C360C                 | 3     | 60                 | 360/300/240                          | 75             | 208/240      |
| C360F                 | 3     | 60                 | 360/300/240                          | 75             | 480          |
| C375A                 | 3     | 75                 | 450/375/300                          | 90             | 24           |
| C375B                 | 3     | 75                 | 450/375/300                          | 90             | 120          |
| C375C                 | 3     | 75                 | 450/375/300                          | 90             | 208/240      |
| C390A                 | 3     | 90                 | 540/450/360                          | 120            | 24           |
| C390B                 | 3     | 90                 | 540/450/360                          | 120            | 120          |
| C390C                 | 3     | 90                 | 540/450/360                          | 120            | 208/240      |

|                       |   |    |             |    |         |
|-----------------------|---|----|-------------|----|---------|
| <b>Packard 4 Pole</b> |   |    |             |    |         |
| C430A                 | 4 | 30 | 180/150/120 | 40 | 24      |
| C430B                 | 4 | 30 | 180/150/120 | 40 | 120     |
| C430C                 | 4 | 30 | 180/150/120 | 40 | 208/240 |
| C430F                 | 4 | 30 | 180/150/120 | 40 | 480     |
| C440A                 | 4 | 40 | 240/200/160 | 50 | 24      |
| C440B                 | 4 | 40 | 240/200/160 | 50 | 120     |
| C440C                 | 4 | 40 | 240/200/160 | 50 | 208/240 |
| C440F                 | 4 | 40 | 240/200/160 | 50 | 480     |

Notes:

\* Spade terminals and cover only.

## Magnetic Contactor



|                                      |                  |
|--------------------------------------|------------------|
| <b>Item ID</b>                       | <b>C18001</b>    |
| <b>Type</b>                          | <b>DPST N.O.</b> |
| <b>Resistive Amps</b>                | <b>30</b>        |
| <b>Full Load Amps</b>                | <b>30</b>        |
| <b>Locked Rotor Amps</b>             | <b>120</b>       |
| <b>Coil Voltage</b>                  | <b>24</b>        |
| <b>Hertz</b>                         | <b>50/60</b>     |
| <b>Maximum Surrounding Air Temp.</b> | <b>40°C</b>      |
| <b>Phase</b>                         | <b>Single</b>    |

### Replaces

3ARR8E4      MC11      18001  
90-230

## Auxiliary Switches For TITAN MAX Contactors

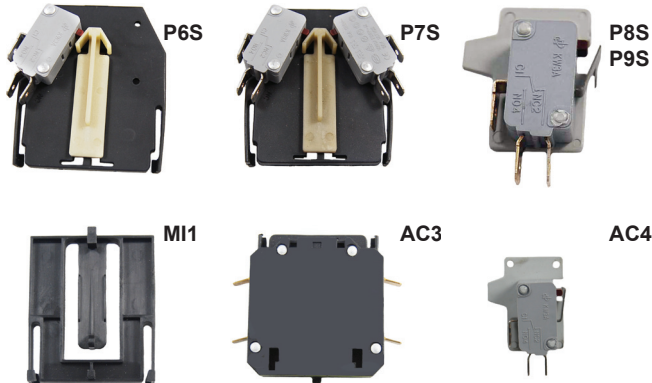
### Features

- Universal - for use on all 3 pole contactors.



| Item ID                                                      | Type               |
|--------------------------------------------------------------|--------------------|
| <b>TITAN MAX Auxiliary Contact Blocks with Quick Connect</b> |                    |
| C03A01                                                       | 1NC                |
| C03A10                                                       | 1NO                |
| C03A02                                                       | 2NC                |
| C03A20                                                       | 2NO                |
| C03A11                                                       | 1NC + 1NO          |
| <b>TITAN MAX Microswitch Blocks</b>                          |                    |
| C03M10                                                       | SPDT at position 1 |
| C03M01                                                       | SPDT at position 2 |
| C03M11                                                       | 2PCS SPDT          |

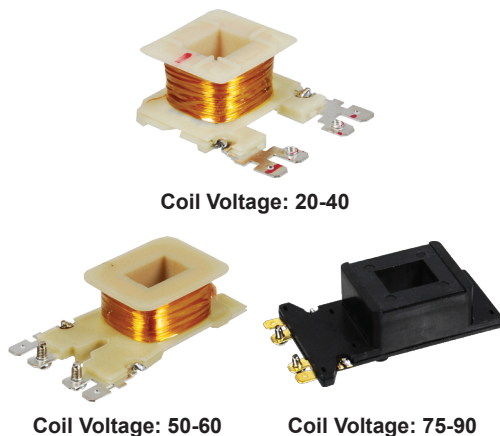
## Auxiliary Switches For Packard Contactors



| Item ID        | Type                 | Amps  |
|----------------|----------------------|-------|
| <b>Packard</b> |                      |       |
| P6S            | SPDT                 | 30-40 |
| P7S            | SPDT                 | 30-40 |
| P8S            | SPDT                 | 50-60 |
| AC4            | 1 SPDT               | 50-60 |
| P9S            | SPDT                 | 70-90 |
| MI1            | Mechanical Interlock | 20-40 |
| AC3            | NO/NC                | 20-60 |
| P38K           | Includes P8S and AC3 |       |

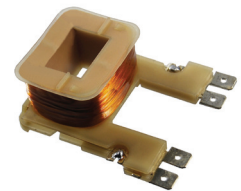
## Replacement Coils For Packard Contactors

### 3 Pole Contactor Replacement Coils



| Item ID               | Poles | Coil Voltage | Full Load Amps |
|-----------------------|-------|--------------|----------------|
| <b>Packard 3 Pole</b> |       |              |                |
| C32040A               | 3     | 24           | 20-40          |
| C32040B               | 3     | 120          | 20-40          |
| C32040C               | 3     | 208/240      | 20-40          |
| C32040D               | 3     | 277          | 20-40          |
| C32040E               | 3     | 480          | 20-40          |
| C35060A               | 3     | 24           | 50-60          |
| C35060B               | 3     | 120          | 50-60          |
| C35060C               | 3     | 208/240      | 50-60          |
| C35060D               | 3     | 277          | 50-60          |
| C35060E               | 3     | 480          | 50-60          |
| C37590B               | 3     | 120          | 75-90          |
| C37590C               | 3     | 208/240      | 75-90          |

### 4 Pole Contactor Replacement Coils



| Item ID               | Poles | Coil Voltage | Full Load Amps |
|-----------------------|-------|--------------|----------------|
| <b>Packard 4 Pole</b> |       |              |                |
| C42040A               | 4     | 24           | 20-40          |
| C42040B               | 4     | 120          | 20-40          |
| C42040C               | 4     | 208/240      | 20-40          |
| C42040D               | 4     | 277          | 20-40          |

## Class II Foot Mount Transformers



### Features

- Packard transformers replace models with equal or lower VA rating
- Foot mount
- UL listed class II transformers

| Item ID        | Primary Voltage | Secondary Rating | Output Option | Mounting Option | Connection       | Replaces                      | Notes |
|----------------|-----------------|------------------|---------------|-----------------|------------------|-------------------------------|-------|
| <b>Packard</b> |                 |                  |               |                 |                  |                               |       |
| PF12416        | 120             | 16               | 10VA          | Foot            | Wire Lead / Term | UET 10A                       |       |
| PF42420        | 120/208-240     | 24               | 20VA          | Foot            | Wire Lead        | Jard 2031F<br>UET 114         |       |
| PF24200        | 120             | 24               | 20VA          | Foot            | Wire Lead / Term |                               |       |
| PF40224        | 208-240         | 24               | 40VA          | Foot            | Terminals        |                               |       |
| PF105          | 120/208-240     | 24               | 40VA          | Foot            | Wire Lead        | UET 105                       | 115   |
| PF4031VM       | 120             | 24               | 40VA          | Foot            | Wire Lead        | Jard 4031VM                   |       |
| PF12440        | 120             | 24               | 40VA          | Foot            | Wire Lead        | Jard 4011F                    |       |
| PF12450        | 120             | 24               | 50VA          | Foot            | Wire Lead        |                               |       |
| PF22440        | 208-240         | 24               | 40VA          | Foot            | Wire Lead        | Jard 4021F                    |       |
| PF113          | 120             | 24               | 40VA          | Foot            | Wire Lead/Term   | 90-113 Fan Center Transformer |       |
| PF42440        | 120/208-240     | 24               | 40VA          | Foot            | Wire Lead        | Jard 4031F<br>UET 115         |       |
| PF4031OEM      | 120/208/240     | 24               | 40VA          | Foot            | Terminals        | Jard 4031OEM                  |       |
| PF32440        | 120/208-240     | 24/12/2.5        | 40VA          | Foot            | Wire Lead        | Jard 4032F<br>UET 101         | 118   |
| PF27440        | 277             | 24               | 40VA          | Foot            | Wire Lead        | Jard 40271F                   |       |
| PF40350        | 120/208/240     | 24               | 50VA          | Foot            | Wire Lead        | Jard 5031F                    |       |
| PF42450        | 120/208/240/480 | 24               | 50VA          | Foot            | Wire Lead        | Jard 5041C                    | 117   |
| PF52460        | 120/208-240     | 24               | 60VA          | Foot            | Wire Lead        | Jard 6041C<br>UET 160         | 117   |
| PF52475        | 120/208-240/480 | 24               | 75VA          | Foot            | Wire Lead        | Jard 7541C<br>UET 179R        | 117   |
| PF52475F       | 120/208-240/480 | 24               | 75VA          | Foot            | Wire Lead        | Jard 7541M<br>UET 175         | 118   |
| PF524100       | 120/208-240/480 | 24               | 100VA         | Foot            | Wire Lead        | Jard 10041C                   | 117   |

Notes:  
 115. Dimension between mounting holes is 2.756 inch or 70mm  
 117. Equipped with a circuit breaker  
 118. Built-In fuse included

## Class II Multi-Mount Transformers



### Features

- Packard transformers replace models with equal or lower VA rating
- Multi-mount transformers
- 4 1/4" x 4 1/4" mounting plate included
- 1/2" conduit hub for electrical knockout mounting
- UL listed class II transformers

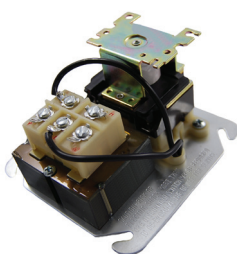
| Item ID        | Primary Voltage | Secondary Rating | Output Option | Mounting Option | Connection     | Replaces              | Notes |
|----------------|-----------------|------------------|---------------|-----------------|----------------|-----------------------|-------|
| <b>Packard</b> |                 |                  |               |                 |                |                       |       |
| PM12040        | 120             | 24               | 40VA          | Plate           | Wire Lead/Term |                       |       |
| PM12440        | 120             | 24               | 40VA          | Multi           | Wire Lead      | Jard 4011M<br>UET 112 |       |
| PM32440        | 208-240         | 24               | 40VA          | Multi           | Wire Lead      | Jard 4021M<br>UET 113 |       |
| PM42440        | 120/208-240     | 24               | 40VA          | Multi           | Wire Lead      | Jard 4031M            |       |
| PM43440        | 120/208-240     | 24/12/2.5        | 40VA          | Multi           | Wire Lead      | UET 111               | 118   |
| PM43448        | 120/208-240     | 24/12/2.5        | 48VA          | Multi           | Wire Lead      |                       |       |
| PM44450        | 120/208-240     | 24               | 50VA          | Multi           | Wire Lead/Term | Jard 5031M<br>UET 150 | 118   |
| PM43450        | 120/208-240     | 24/12/2.5        | 50VA          | Multi           | Wire Lead      | Jard 5032M            |       |
| PM10048P       | 208/240/480     | 24/120           | 100VA         | Multi           | Wire Lead      | Jard 10048P           |       |
| PM7541MCB      | 120/208/240/480 | 24               | 75VA          | Multi           | Wire Lead      | Jard 7541MCB          | 117   |

#### Notes:

117. Equipped with a circuit breaker

118. Built-In fuse included

## Fan Control Centers



### Features

- UL recognized 40 VA transformer
- Color coded leads
- Low voltage terminal board

| Item ID        | Primary Voltage | Primary Connections | Secondary Voltage | Secondary Connections | Relay     | Replaces              |
|----------------|-----------------|---------------------|-------------------|-----------------------|-----------|-----------------------|
| <b>Packard</b> |                 |                     |                   |                       |           |                       |
| FC90112        | 120             | Leads               | 24                | Terminal Board        | DPDT      | White-Rodgers 90-112  |
| FC90113        | 120             | Leads               | 24                | Terminal Board        | SPDT      | White-Rodgers 90-113  |
| FC90118        | 120             | Leads               | 24                | Terminal Board        | SPNO/SPNC | White-Rodgers 90-118E |
| FC90119        | 208/240         | Leads               | 24                | Terminal Board        | SPDT      | White-Rodgers 90-119  |
| FC90130        | 120/208/240     | Leads               | 24                | Terminal Board        | DPDT      | White-Rodgers 90-130  |

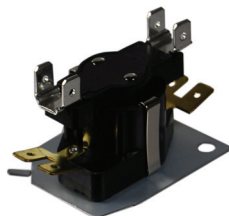


## Heat Sequencers

HS24A341



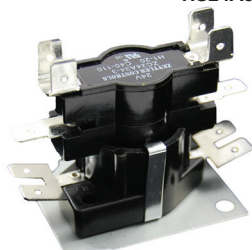
HS24A342



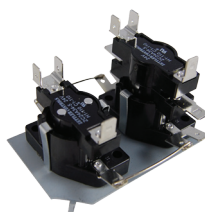
HS24A343



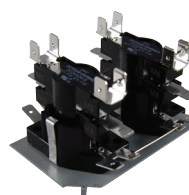
HS24A344



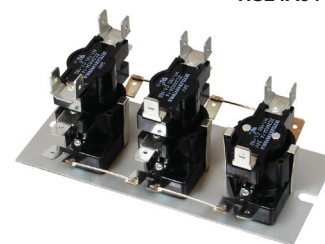
HS24A345



HS24A346



HS24A3414



### Features

- Contact ratings: up to 25 Amps at 120 or 240 Volts and 12.5 Amps at 480 Volts
- Full-load rated auxiliary contacts
- Standard operating ambient between -50°F (-45.5°C) and 165°F (73.8°C)
- Shock and vibration resistant
- Solid state
- Quick-connect terminals
- Mounts in any position
- UL and CSA recognized

| Timings - On |         |          |       |       |       |       |        |        |        |       |       |        |            | Timings - Off |  |  |  |  |  |
|--------------|---------|----------|-------|-------|-------|-------|--------|--------|--------|-------|-------|--------|------------|---------------|--|--|--|--|--|
| Item ID      | Timings | Switches | M1-M2 | M3-M4 | M5-M6 | M7-M8 | M9-M10 | M1-M2  | M3-M4  | M5-M6 | M7-M8 | M9-M10 | Type       |               |  |  |  |  |  |
| Packard      |         |          |       |       |       |       |        |        |        |       |       |        |            |               |  |  |  |  |  |
| HS24A341     | 1       | 1        | 1-20  |       |       |       |        | 40-110 |        |       |       |        | SPST       |               |  |  |  |  |  |
| HS24A342     | 1       | 1        |       |       | 30-90 |       |        |        |        | 1-30  |       |        | SPST       |               |  |  |  |  |  |
| HS24A343     | 1       | 2        | 1-20  | 1-20  |       |       |        | 40-110 | 40-110 |       |       |        | DPDT       |               |  |  |  |  |  |
| HS24A344     | 1       | 2        |       |       | 30-90 | 30-90 |        |        |        | 1-30  | 1-30  |        | DPDT       |               |  |  |  |  |  |
| HS24A345     | 2       | 3        | 1-110 | 1-110 | 1-110 |       |        | 1-110  | 1-110  | 1-110 |       |        | DPDT-SPST  |               |  |  |  |  |  |
| HS24A346     | 2       | 4        | 1-110 | 1-110 | 1-110 | 1-110 |        | 1-110  | 1-110  | 1-110 | 1-110 |        | 2-DPDT     |               |  |  |  |  |  |
| HS24A3414    | 4       | 5        | 1-160 | 1-160 | 1-160 | 1-160 | 1-160  | 1-160  | 1-160  | 1-160 | 1-160 | 1-160  | 2DPDT-SPST |               |  |  |  |  |  |

| Item ID         | HS24A341 | HS24A342 | HS24A343 | HS24A344 | HS24A345 | HS24A346 | HS24A3414   |
|-----------------|----------|----------|----------|----------|----------|----------|-------------|
| <b>Replaces</b> |          |          |          |          |          |          |             |
| Gemline         | GS101    | GS102    | GS103    | GS104    | GS105    | GS106    | GS107       |
| Klixon          | 60000AOM | A012     | E017     | 51172-22 | 51172-32 | 51172-33 | 51172-131-5 |
| White-Rodgers   | 24A34-1  | 24A34-2  | 24A34-3  | 24A34-4  | 24A34-5  | 24A34-6  | 24A34-14    |

## Direct Replacement For Goodman



| Item ID        | Type            | Control Voltage | Delay On (Seconds) | Delay Off (Seconds) | Replaces                          |
|----------------|-----------------|-----------------|--------------------|---------------------|-----------------------------------|
| <b>Packard</b> |                 |                 |                    |                     |                                   |
| HS33247        | SPDT 1 & 3 N.O. | 24              | 1-24               | 15-75               | Goodman B1370738<br>Klixon COM-21 |

## Potential Relays



### Features

- Temperature range: 40°F to 130°F
- Class B insulation
- Continuous duty
- UL and CSA recognized

| Item ID        | Continuous Coil Voltage | Pick-Up Min. | Pick-Up Max. | Drop Out Max. | DC Res | MA   | Coil Data Nom. VA | Inrush VA | Class Insulation | Replaces |
|----------------|-------------------------|--------------|--------------|---------------|--------|------|-------------------|-----------|------------------|----------|
| <b>Packard</b> |                         |              |              |               |        |      |                   |           |                  |          |
| PR9026         | 395                     | 180          | 195          | 100           | 7147   | 12.7 | 5                 | 10        | B                | 90-26    |
| PR9063         | 170                     | 140          | 153          | 65            | 1399   | 29   | 5                 | 10        | B                | 90-63    |
| PR9064         | 395                     | 245          | 275          | 140           | 7147   | 12.7 | 5                 | 10        | B                | 90-64    |
| PR9065         | 332                     | 171          | 184          | 90            | 5180   | 15   | 5                 | 10        | B                | 90-65    |
| PR9066         | 395                     | 208          | 239          | 130           | 7147   | 12.7 | 5                 | 10        | B                | 90-66    |
| PR9067         | 420                     | 300          | 328          | 121           | 10000  | 12   | 5                 | 10        | B                | 90-67    |
| PR9068         | 495                     | 323          | 352          | 135           | 11950  | 10   | 5                 | 10        | B                | 90-68    |
| PR9071         | 420                     | 223          | 252          | 150           | 10000  | 12   | 5                 | 10        | B                | 90-71    |
| PR9169         | 332                     | 180          | 193          | 105           | 5600   | 12   | 5                 | 10        | B                | 90-69    |

## Direct Replacement Relays For ICP And Nordyne



PR1922



PR1931

### Features

- Electric heater relay
- Used with AMF(K,H)xxCxx heaters in ICP air handlers

| Item ID        | Continuous Coil Voltage | Pick-Up Min. | Pick-Up Max. | Drop Out Max. | Coil | Replaces                  |
|----------------|-------------------------|--------------|--------------|---------------|------|---------------------------|
| <b>Packard</b> |                         |              |              |               |      |                           |
| PR1922         | 28.6                    | 16.5         | 22           | 2.2           | DC   | ICP 111001922 ICP 1084529 |
| PR1931         | 31.2                    | 18           | 24           | 7.2           | AC   | Nordyne 621931            |

## Time Delay Relays



PTD102  
Delay on Make



PTD203  
Delay on Break

### Application

- Prevents short cycling of air conditioning, refrigeration and heat pump compressors

### Features

- Universal voltage
- Mounts in any position
- UL and CSA recognized
- Adjustable up to 10 minutes
- Easy two-wire installation
- Delay on make / delay on break

| Item ID | Connection              | Time Delay     | Input Line Frequency | Input Line Voltage | Output Ratings Inrush | Output Ratings Max. | Output Ratings Min. | Replaces                                            |                                                                          |                                                                                                  |                   |
|---------|-------------------------|----------------|----------------------|--------------------|-----------------------|---------------------|---------------------|-----------------------------------------------------|--------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------|-------------------|
| Packard |                         |                |                      |                    |                       |                     |                     |                                                     |                                                                          |                                                                                                  |                   |
| PTD102  | 2 - 1/4" male terminals | .03 - 10 mins. | 50/60                | 18-240VAC/<br>VDC  | 15<br>amps            | 1.5<br>amps         | 40 mA               | Carrier P284-2391<br>Gemline IC213<br>Gemline IC310 | ICM 102B<br>ICM 102FB<br>ICP 1160706<br>Lennox 24C4101<br>Lennox 47A7301 | McQuay 282101B14<br>McQuay 282101B2<br>McQuay 282101B3<br>Rheem 42-22326-01<br>Rheem 42-41542-01 | 3310-068<br>ADM-2 |
| PTD203  | 2 - 1/4" male terminals | .03 - 10 mins. | 50/60                | 18-240VAC/<br>VDC  | 15<br>amps            | 1.5<br>amps         | 40 mA               | A-1 Components<br>F7035<br>Carrier P284-2392        | ICM 203B<br>ICP 1160708<br>ICP 1160711                                   | 3310-072<br>Trane TMR107<br>Trane TMR52                                                          | ADB-1             |

## SPST And SPDT Fan Relays

### Features

- 1/4" Quick connect terminals
- Used for switching solenoids, fan motors, and other applications.



| Item ID | Description  | Amps Res. | FLA/LRA at |           | Coil Voltage | Replaces |
|---------|--------------|-----------|------------|-----------|--------------|----------|
|         |              |           | 125 Volts  | 250 Volts |              |          |
| Packard |              |           |            |           |              |          |
| PR290Q  | SPST-NO      | 18        | 12/60      | 8/48      | 24 VAC       | 90-290Q  |
| PR291Q  | SPST-NO      | 18        | 12/60      | 8/48      | 120 VAC      | 90-291Q  |
| PR292Q  | SPST-NO      | 18        | 12/60      | 8/48      | 240 VAC      | 90-292Q  |
| PR293Q  | SPDT         | 18        | 12/60      | 8/48      | 24 VAC       | 90-293Q  |
| PR294Q  | SPDT         | 18        | 12/60      | 8/48      | 120 VAC      | 90-294Q  |
| PR295Q  | SPDT         | 18        | 12/60      | 8/48      | 240 VAC      | 90-295Q  |
| PR360   | SPST-NO      | 18        | 12/60      | 8/48      | 24 VAC       | 90-360   |
| PR362   | SPST-NO      | 18        | 12/60      | 8/48      | 120 VAC      | 90-362   |
| PR370   | SPDT         | 18        | 12/60      | 8/48      | 24 VAC       | 90-370   |
| PR372   | SPDT         | 18        | 12/60      | 8/48      | 120 VAC      | 90-372   |
| PR374   | SPDT         | 18        | 12/60      | 8/48      | 240 VAC      | 90-374   |
| PR380   | SPST NO + NC | 18        | 12/60      | 8/48      | 24 VAC       | 90-380   |
| PR382   | SPST NO + NC | 18        | 12/60      | 8/48      | 120 VAC      | 90-382   |
| PR384   | SPST NO + NC | 18        | 12/60      | 8/48      | 240 VAC      | 90-384   |

## Switching Relays

### Features

- Used on heat pumps, vending machines, fans, and heating and air conditioning



| Item ID        | Coil Voltage | Description | Terminal 1-2-3 | Terminal 4-5-6 | Replaces |
|----------------|--------------|-------------|----------------|----------------|----------|
| <b>Packard</b> |              |             |                |                |          |
| PR340          | 24           | DPDT        | Power          | Power          | 90-340   |
| PR341          | 110/120      | DPDT        | Power          | Power          | 90-341   |
| PR342          | 208/240      | DPDT        | Power          | Power          | 90-342   |
| PR343          | 24           | DPDT        | Power          | Pilot          | 90-343   |
| PR344          | 110/120      | DPDT        | Power          | Pilot          | 90-344   |
| PR345          | 208/240      | DPDT        | Power          | Pilot          | 90-345   |

## Relay Overloads

### Features

- Replaces relay and overload combinations on 1/8 thru 1/3 HP compressors.



| Item ID        | Volts | H.P.        | Hertz |
|----------------|-------|-------------|-------|
| <b>Packard</b> |       |             |       |
| RO15           | 115   | 1/8-1/5     | 50/60 |
| RO13           | 115   | 1/4 and 1/3 | 50/60 |

## Automatic Small Flush Mount - SPST - Limit Thermostats



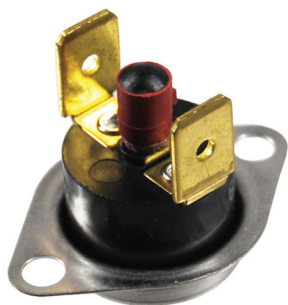
### Features

- Used in gas fired furnaces, unit heater and rooftop units
- Automatic reset
- Wide temperature range for most heating applications



| Item ID        | Terminals        | Cut In Temp. | Cut Out Temp. | Differential |
|----------------|------------------|--------------|---------------|--------------|
| <b>Packard</b> |                  |              |               |              |
| PLF130VA       | Vertical 1/4"    | 115°F        | 130°F         | 15°F         |
| PLF155VA       | Vertical 1/4"    | 115°F        | 155°F         | 40°F         |
| PLF158VB       | Vertical 3/16"   | 118°F        | 158°F         | 40°F         |
| PLF165VA       | Vertical 1/4"    | 125°F        | 165°F         | 40°F         |
| PLF170VA       | Vertical 1/4"    | 130°F        | 170°F         | 40°F         |
| PLF185VB       | Vertical 3/16"   | 145°F        | 185°F         | 40°F         |
| PLF190HA       | Horizontal 1/4"  | 150°F        | 190°F         | 40°F         |
| PLF194HB       | Horizontal 3/16" | 154°F        | 194°F         | 40°F         |
| PLF200HA       | Horizontal 1/4"  | 160°F        | 200°F         | 40°F         |
| PLF200VA       | Vertical 1/4"    | 160°F        | 200°F         | 40°F         |
| PLF210HA       | Horizontal 1/4"  | 170°F        | 210°F         | 40°F         |
| PLF222VA       | Vertical 1/4"    | 182°F        | 222°F         | 40°F         |
| PLF230HA       | Horizontal 1/4"  | 190°F        | 230°F         | 40°F         |
| PLF230HB       | Horizontal 3/16" | 190°F        | 230°F         | 40°F         |
| PLF250HA       | Horizontal 1/4"  | 200°F        | 250°F         | 50°F         |
| PLF252VB       | Vertical 3/16"   | 202°F        | 252°F         | 50°F         |
| PLF255VA       | Vertical 1/4"    | 205°F        | 255°F         | 50°F         |
| PLF260HA       | Horizontal 1/4"  | 210°F        | 260°F         | 50°F         |
| PLF275HB       | Horizontal 3/16" | 225°F        | 275°F         | 50°F         |
| PLF275VB       | Vertical 3/16"   | 225°F        | 275°F         | 50°F         |
| PLF280HB       | Horizontal 3/16" | 230°F        | 280°F         | 50°F         |
| PLF300HB       | Horizontal 3/16" | 250°F        | 300°F         | 50°F         |
| PLF300VA       | Vertical 1/4"    | 250°F        | 300°F         | 50°F         |
| PLF330VA       | Vertical 1/4"    | 280°F        | 330°F         | 50°F         |

## Manual - SPST - Limit Thermostats



### Features

- Used in gas fired furnaces, unit heater and rooftop units
- Manual reset
- Wide temperature range for most heating applications



| Item ID        | Terminals     | Switch Action | Switch Type | Cut In Temp. | Cut Out Temp. | Amps | Volts | Hertz | Replaces                              |
|----------------|---------------|---------------|-------------|--------------|---------------|------|-------|-------|---------------------------------------|
| <b>Packard</b> |               |               |             |              |               |      |       |       |                                       |
| PRL130         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 130°F         | 16.0 | 250   | 50/60 | Rheem 47-22453-01                     |
| PRL135         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 135°F         | 16.0 | 250   | 50/60 | Rheem 47-22453-02                     |
| PRL220         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 220°F         | 16.0 | 250   | 50/60 | Nordyne 626354                        |
| PRL230         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 230°F         | 16.0 | 250   | 50/60 | Nordyne 626353                        |
| PRL240         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 240°F         | 16.0 | 250   | 50/60 | Nordyne 626355                        |
| PRL250         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 250°F         | 16.0 | 250   | 50/60 | Nordyne 626352                        |
| PRL260         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 260°F         | 16.0 | 250   | 50/60 | Nordyne 626350                        |
| PRL300         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 300°F         | 16.0 | 250   | 50/60 | Heil 1005549<br>York 026-34027-000    |
| PRL350         | Vertical 1/4" | Open On Rise  | SPST        | Manual Reset | 350°F         | 16.0 | 250   | 50/60 | Rheem 47-22861-01<br>Goodman B1370154 |



## Packard Round Silicon Nitride Igniters

### Features

- Round
- Made of durable silicon Nitride
- All igniters are cCSAus certified
- OEM direct replacements



#### Item ID IG1121N

- 5.5" Leads with connector
- Mounting bracket included

#### Replaces

Goodman B1401015  
Modine 5H075032B



#### Item ID IG1401N

- Gasket included
- 5.5" Leads with connector
- 9" Leads with connector

#### Replaces

Amana 10041601  
Amana B1336102  
Amana D99182  
Starlite 11120-100-1401  
Trianco-Heatermaker 2600-359



#### Item ID IG1402N

- 19" Leads with wire nuts

#### Replaces

Amana 10755002  
Clare C-238 / C-242  
Dornback 271W  
Rheem 62-22441-01  
Trane 340039P01, IGN23  
Armstrong 38322B001  
DMO 20834 / 26789  
Goodman B11726-06  
Williamson 09050



#### Item ID IG1403N

- 5.5" Leads with wire nuts

#### Replaces

Amana B138196P01  
Raypak 600915  
Snyder General 1380654  
Trane B138196P01 Trane IGN26  
Trane IGN30 Weil McLain 511-330-193



#### Item ID IG1405N

- 5.5" Leads with wire nuts
- 12" Leads with connector

#### Replaces

Heil Quaker 1001344  
Heil Quaker 1148145  
York 025-27766-00  
York 025-27774-000  
York 025-29043-000



#### Item ID IG1408N

- 5.5" Leads with connector

#### Replaces

Amana 340039P01  
Rheem 62-2241-01  
Rheem 62-22868-93  
Trane IGN-0034  
Whirlpool 99794328  
Lennox 98P78  
Rheem 62-2268-92  
Trane B340039P01  
Starlite 11120-100-1408



#### Item ID IG1409N

- 5.5" Leads with connector

#### Replaces

Carrier LH33ZS001  
Carrier LH33ZS003  
Ducane 20015201  
Trane IGN26  
Weil McLain 511-330-139  
Carrier LH33ZS002  
Carrier LH33ZS004  
Snyder General 1380672  
Snyder General 1380680



#### Item ID IG1410N

- 5.5" Leads with connector

#### Replaces

Amana B144676P01  
Trane B144676P01



#### Item ID IG1411N

- Includes bracket & connector

#### Replaces

Norton 271N  
Rheem 62-22868-82



#### Item ID IG1412N

- 5.5" Leads with connector

#### Replaces

Goodman B1401009  
Heil Quaker 1009604  
ICP 1009604  
Norton 271NM



#### Item ID IG1414N

- 5.5" Leads with connector
- Includes brackets and wire nuts

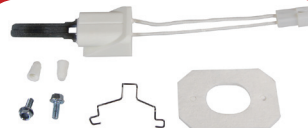
#### Replaces

Goodman B14010-15S  
Norton 271NM  
Norton MB457025  
767A-384

## Packard Silicon Carbide Igniters

### Features

- Silicon Carbide Igniters
- All igniters are cCSAus certified
- OEM direct replacements



#### Item ID IG3033

- Used on many Trane package models beginning with YCD15, YCD17 and YCD18
- Includes igniter, gasket, clip, mounting screws and installation instructions

#### Replaces

Trane KIT03033



#### Item ID IG1121

- 5.5" Leads with connector
- Mounting bracket included

#### Replaces

Goodman B1401015  
Modine 5H075032B



#### Item ID IG1401

- Gasket included
- 5.5" Leads with connector
- 9" Leads with connector

#### Replaces

Amana 10041601  
Amana B1336102  
Amana D99182  
Starlite 11120-100-1401  
Trianco-Heatermaker 2600-359

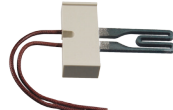


#### Item ID IG1402

- 19" Leads with wire nuts

#### Replaces

Amana 10755002    Armstrong 38322B001  
Clare C-238 / C-242    DMO 20834 / 26789  
Dornback 271W    Goodman B11726-06  
Rheem 62-22441-01    Williamson 09050  
Trane 340039P01, IGN23



#### Item ID IG1403

- 5.5" Leads with wire nuts

#### Replaces

Amana B138196P01  
Raypak 600915  
Snyder General 1380654  
Trane B138196P01    Trane IGN26  
Trane IGN30    Weil McLain 511-330-193



#### Item ID IG1405

- 5.5" Leads with wire nuts
- 12" Leads with connector

#### Replaces

Heil Quaker 1001344  
Heil Quaker 1148145  
York 025-27766-00  
York 025-27774-000  
York 025-29043-000



#### Item ID IG1406

- Gasket included
- 11" Leads with wire nuts

#### Replaces

Glowcore HSRK-7  
Lochinvar PLT2400  
Spiral Igniter FY009  
Weil McLain 511-330-188



#### Item ID IG1407

- 5.5" Leads with connector

#### Replaces

Trane B144676P02  
Trane IGN30



#### Item ID IG1408

- 5.5" Leads with connector

#### Replaces

Amana 340039P01    Lennox 98P78  
Rheem 62-2241-01    Rheem 62-22868-92  
Rheem 62-2268-93    Trane B340039P01  
Trane IGN-0034    Starlite 11120-100-1408  
Whirlpool 99794328



#### Item ID IG1409

- 5.5" Leads with connector

#### Replaces

Carrier LH33ZS001    Carrier LH33ZS002  
Carrier LH33ZS003    Carrier LH33ZS004  
Ducane 20015201    Snyder General 1380672  
Trane IGN26    Snyder General 1380680  
Weil McLain 511-330-139



#### Item ID IG1410

- 5.5" Leads with connector

#### Replaces

Amana B144676P01  
Trane B144676P01



#### Item ID IG1411

- Includes bracket & connector

#### Replaces

Norton 271N  
Rheem 62-22868-82

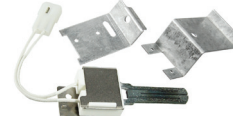


#### Item ID IG1412

- 5.5" Leads with connector

#### Replaces

Goodman B1401009  
Heil Quaker 1009604  
ICP 1009604  
Norton 271NM



#### Item ID IG1414

- 5.5" Leads with connector
- Includes brackets and wire nuts

#### Replaces

Goodman B14010-15S  
Norton 271NM  
Norton MB457025  
767A-384

## Universal And Specialty Silicon Nitride Hot Surface Igniter Kits

### Features

- Silicon nitride has high fracture toughness and chemical resistance abilities and can be handled with the greasiest of hands
- For furnaces, boilers, pool and water heaters



#### Item ID IG0004N

- Silicone nitride igniter

#### Replaces

Carrier LH33ZS004



#### Item ID IG1090N

- 120 Volt • Universal flat glo-stix

#### Replaces

|             |             |                                                 |
|-------------|-------------|-------------------------------------------------|
| Norton 101M | Norton 201P | Norton 271NM                                    |
| Norton 201D | Norton 201W | Norton 271P                                     |
| Norton 201K | Norton 271  | Norton 271R                                     |
| Norton 201L | Norton 271D | Norton 271RS                                    |
| Norton 201M | Norton 271M | Norton 271W                                     |
| Norton 201N | Norton 271N | May also be used to replace Gas dryer igniters. |



#### Item ID IG1000N

- 120 Volt • Universal round glo-stix

#### Replaces

|             |             |              |
|-------------|-------------|--------------|
| Norton 201  | Norton 201N | Norton 271M  |
| Norton 201D | Norton 201R | Norton 271N  |
| Norton 201J | Norton 201W | Norton 271NM |
| Norton 201K | Norton 201Y | Norton 271P  |
| Norton 201L | Norton 271  | Norton 271W  |
| Norton 201M | Norton 271D | Norton 271Y  |



#### Item ID IG1406N

- 120 Volt • Special flat glo-stix

#### Replaces

|                |                              |
|----------------|------------------------------|
| MorFlo 3200580 | Norton 271Y                  |
| MorFlo 3210401 | Perfection Schwank 108803-G1 |
| Norton 201J    | Weil McLain 511-330-188      |
| Norton 201M    | Weil McLain 511-330-148      |
| Norton 201Y    |                              |
| Norton 271M    |                              |



#### Item ID IG1413N

- 120 Volt • Special flat glo-stix

#### Replaces

Carlin 87197S  
Norton 201C



#### Item ID IG0001

- Includes mini igniter, flat mounting plate, screw, instruction sheet and adapter harness; Manufactured using silicon nitride

#### Replaces

|                    |                   |
|--------------------|-------------------|
| Goodman 023K00000S | Goodman B1401015S |
|                    | Goodman B1401018S |

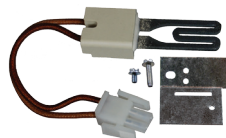


#### Item ID IG9500

- 24 Volt • Silicon nitride design

#### Replaces

|                      |                              |
|----------------------|------------------------------|
| ICP 1009524          | Honeywell Q3450              |
| ICP 1149856          | Honeywell Q3480              |
| Honeywell Q3400A1016 | Honeywell Q3620              |
| Honeywell Q3400A1024 | Igniters Direct "SMART LITE" |
| Honeywell Q3400A1040 |                              |



#### Item ID IG1114

- An exact replacement kit for Nordyne series G6 (and earlier models G3, G4, G5) and M2 furnaces.
- The kit includes complete installation instructions along with an adapter bracket and screws for G3RC, G4 (all), G5 (all), G3RA, G6 (all) and M2 (all) Nordyne furnaces.

#### Replaces

|                |                |
|----------------|----------------|
| Nordyne 903758 | Nordyne 632363 |
| Nordyne 632354 | Nordyne 903597 |



#### Item ID IG80V

- 80 Volt / 120 watts
- Direct universal replacement

#### Replaces

|                          |                |
|--------------------------|----------------|
| Amana 11111701           | Trane IGN00104 |
| Lennox 41K5601           | Trane IGN0104  |
| Thermo Products 768A-143 | Trane IGN033   |
| Trane B340970PO1         | Trane IGN059   |
| Trane IGN00117           | CAR768A845     |
| Trane IGN00033           | CARIGN00117    |
| Trane IGN00059           | HS100117A      |

## Flame Sensors



### Item ID PFS401

- Teflon insulated (250°C rating) lead wire
- Single screw, plated steel mounting bracket
- Single rod
- 30 Inch lead with a female connection
- Probe length 3 inch

### Replaces

31380679



### Item ID PFS802

- Teflon insulated (250°C rating) lead wire
- Single screw, plated steel mounting bracket
- Single rod
- 1/4 Inch male connection
- Probe length 3 inch

### Replaces

ICP 1380687  
Goodman 0130F00010  
York 025-27773-700

### Features

- Flame sensors for Hot Surface Ignition (H.S.I.) systems
- Can be mounted remotely on multiple burners or adjacent to igniter on other applications
- For use with spark ignition and flame sensing
- High quality alumina ceramic insulator
- High temperature kanthal flame rod material that can withstand up to 1800°F



### Item ID PFS013

- Used on these Bryant & Carrier models: 355MAV, 345MAV, 340MAV, 350MAV, 373LAV, 58MXA, 58MVP and 58MCA

### Replaces

Carrier LH680013  
Carrier LH33WZ514  
Carrier LH33WZ516



### Item ID PFS014

- 45 Degree
- For use with Carrier LH33ZS004 igniter
- Used on these Bryant & Carrier models: 330AAV, 330JAV, 333BAV, 333JAV, 398AAV, 58DHC, 58DXC, 58PAV, 58SSC, 58SXC, 58TUA and 58WAV

### Replaces

Carrier LH680014  
Carrier LH33WZ511  
6-62442-18179-4

Carrier LH 680012  
Carrier LH33WZ515



### Item ID PFS301

- 90 Degree
- Length - mounting flange to sensor tip: 2 1/2"
- Length - sensor offset: 1 9/16"
- Angle - sensor offset: 90 degree
- Termination: 1/4" male quick connect
- Commonly found on the Following Models: UGDG VGDG UGDG VGDG UGDG VGDG UGDJ UGFD UGLG UGLH UGLJ UGLK UGLL UGLN UGLQ UGLR UGPH UGPJ UGPK UGPL UGPN UGPP UGPQ UGPR UGRA UGRB UGRJ UGRK UGRL UGRM UGSA UGTA UGTJ UGVG UGVH UGVJ 80LJ 80LS 80PJ 80PS 90RJ 90RS 90RT 90TJ 90TS RGFE RGLS RGPS URGRM RGRS RGRT RGTS SGPG SGPN

### Replaces

Rheem 62-23543-01

## Thermocouples

### Features

- Designed to simplify installation on automatic controls and burners.
- Stainless steel head and weld at tip to provide reliable performance.
- Kit includes adapters to fit most types of pilot burners.
- Five popular lengths are available.



| Item ID | Length (In.) | Honeywell | Replaces |          |            |
|---------|--------------|-----------|----------|----------|------------|
|         |              |           | Johnson  | Penn     | Robertshaw |
| Packard |              |           |          |          |            |
| 22218   | 18           | Q340A1066 | K19AT-18 | K19AT-18 | 1900-018   |
|         |              |           | K15DS-18 | K15DS-18 | 1980-018   |
| 22224   | 24           | Q340A1074 | K19AT-24 | K19AT-24 | 1900-024   |
|         |              |           | K15DS-24 | K15DS-24 | 1980-024   |
| 22230   | 30           | Q340A1082 | K19AT-30 | K19AT-30 | 1900-030   |
|         |              |           | K15DS-30 | K15DS-30 | 1980-030   |
| 22236   | 36           | Q340A1090 | K19AT-36 | K19AT-36 | 1900-036   |
|         |              |           | K15DS-36 | K15DS-36 | 1980-036   |
| 22248   | 48           | Q340A1108 | K19AT-48 | K19AT-48 | 1900-048   |
|         |              |           | K15DS-48 | K15DS-48 | 1980-048   |



## Air Pressure Sensing Switch Kits



Manufactured by  
CLEVELAND CONTROLS

## Features

- Mounts with the diaphragm in vertical plane
- Easy installation
- Designed for residential furnace and light commercial aftermarket applications; duct heater, oven, and other HVAC or energy management applications

| Item ID        | Description                                  | Range                                      | Operating Temp. Range | Contact Arrangement    | Connection                                                         | Approval |
|----------------|----------------------------------------------|--------------------------------------------|-----------------------|------------------------|--------------------------------------------------------------------|----------|
| <b>Packard</b> |                                              |                                            |                       |                        |                                                                    |          |
| PS000          | Field Adjustable Switch Kit                  | 0.10"wc To 10.0"wc.                        | -40F To 190F          | SPDT                   | 1/4" Quick-Connect Terminals                                       | UL CUL   |
| PS495          | Field Adjustable Switch Kit                  | 0.20"wc To 1.0"wc.                         | -40F To 190F          | SPDT                   | 3 Male 90° Quick-Connect terminals                                 | UL CSA   |
| PS498          | Field Adjustable Switch Kit                  | 1.0"wc To 4.0"wc.                          | -40F To 190F          | SPDT                   | 3 Male 90° Quick-Connect terminals                                 | UL CSA   |
| PS222          | Field Adjustable Switch Kit                  | 0.05"wc To 12.0"wc.                        | -40F To 180F          | SPDT                   | Screw Top Terminals With Cup Washers                               | UL CSA   |
| PS460          | Field Adjustable Manual Reset Kit            | 0.40"wc To 12.0"wc.                        | —                     | SPST-NC (Manual Reset) | Screw Top Terminals With Cup Washers                               | UL CSA   |
| PS221          | Fixed Set Point Switch Kit                   | Operates On Pressure Rise At 0.05±0.02"wc. | -40F To 180F          | SPDT                   | 1/4" Male 90° Quick-Connect terminals                              | UL CSA   |
| PS400          | Field Adjustable Switch Kit                  | 0.15"wc To 5.0"wc.                         | -40F To 180F          | SPDT                   | Screw Terminals With Cup Washers                                   | UL CUL   |
| PS415          | Field Adjustable Switch Kit                  | 0.15"wc To 5.0"wc.                         | -40F To 180F          | SPST-NO, SPST-NC, SPDT | 1/4" 90° Quick-Connect Terminals, Screw Terminals With Cup Washers | UL       |
| PS606          | Universal Air Flow Sample Probe & Tubing Kit | —                                          | —                     | —                      | —                                                                  | —        |

## Electric Heating Restring Coil Kits



## General Purpose Restring Coil Kits

## Features

- Restring kits are complete with terminal insulators, screws, washers and nuts.
- Tight coil wire with 11/32" maximum outer diameter.
- Packaged in a poly bag.

| Item ID        | Watts at 240 Volt | Watts at 208 Volt |
|----------------|-------------------|-------------------|
| <b>Packard</b> |                   |                   |
| PH500          | 5000              | 3750              |
| PH501          | 3500              | 2625              |
| PH502          | 2000              | 1500              |
| PH503          | 2500              | 1875              |
| PH505          | 4500              | 3375              |
| PH506          | 4000              | 3000              |
| PH507          | 3000              | 2250              |
| PH520          | 6600              | 4950              |

## 5/8" O.D. General Purpose Coil Kits

## Features

Large open coil heaters for wall furnaces, duct heaters, electric furnaces, bathroom heaters and combination units.

- Coil is terminated with 1/4" spade terminal.
- Butt screws, bushings, nuts and instructions for converting to other connections are included.

| Item ID        | Connector  | Watts at 240 Volt | Watts at 208 Volt |
|----------------|------------|-------------------|-------------------|
| <b>Packard</b> |            |                   |                   |
| PH500FC        | 1/4" Spade | 5000              | 3750              |
| PH500FCB       | Bolt       | 5000              | 3750              |
| PH501FC        | 1/4" Spade | 3500              | 2625              |
| PH501FCB       | Bolt       | 3500              | 2625              |

## Eco Alkalines™: The Eco-Responsible Batteries



ECOAA4



ECOAAA4



ECOAA8



ECO91



ECOC2



ECOD2



ECOAA24



ECOAAA24



ECO9V12



ECOC12



ECOD12

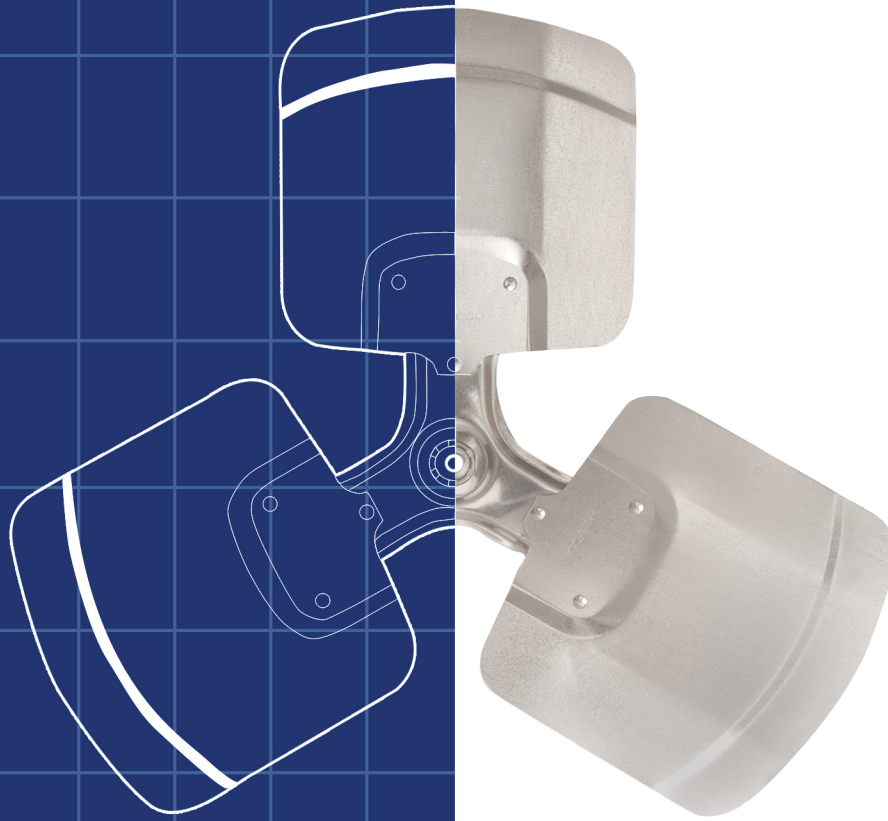
By purchasing Eco Alkalines™, you're doing your part to reduce CO<sup>2</sup> and climate change impact brought about by the production, distribution and disposal of alkaline batteries.

- World's first and only certified carbon neutral batteries
- No trace amounts of harmful metals: Cadmium, lead or mercury
- Manufactured with recycled materials and contains 98% recyclable contents
- Landfill safe if recycling is not an option
- Certified Carbon Neutral by Carbonfund.org and NSF Sustainability



| Item ID                                     | Type | Pack size | Master Pack |
|---------------------------------------------|------|-----------|-------------|
| <b>Eco Alkalines Batteries</b>              |      |           |             |
| ECOAA4                                      | AA   | 4         | 12 PK       |
| ECOAAA4                                     | AAA  | 4         | 16 PK       |
| ECOAA8                                      | AA   | 8         | 5 PK        |
| ECO91                                       | 9V   | 1         | 10 PK       |
| ECOC2                                       | C    | 2         | 7 PK        |
| ECOD2                                       | D    | 2         | 5 PK        |
| <b>Eco Alkalines Batteries BULK Package</b> |      |           |             |
| ECOAA24                                     | AA   | 24        | —           |
| ECOAAA24                                    | AAA  | 24        | —           |
| ECO9V12                                     | 9V   | 12        | —           |
| ECOC12                                      | C    | 12        | —           |
| ECOD12                                      | D    | 12        | —           |





# From concept to reality, Revcor delivers OEM reliability.

Since 1946 Revcor has designed and manufactured some of the most reliable and innovative fan blades for the residential and commercial OEM market. Today Revcor fan blades are used by roughly 80% of the OEM market; every new model requires a unique fan design and each one is carefully selected and qualified by the OEM after hours of rigorous design and testing. Protect the longevity of your repair with the **qualified** OEM replacement blade!



## OEM Direct Replacements

| OEM Brand     | OEM Part number       | Item ID |
|---------------|-----------------------|---------|
| <b>Revcor</b> |                       |         |
| CARRIER       | LA01EA025             | R32213  |
| CARRIER       | LA01EA026             | R21801  |
| CARRIER       | LA01EA037             | R32205  |
| CARRIER       | LA01EA038 / LA01EA037 | R32206  |
| CARRIER       | LA01EC018             | R31821  |
| CARRIER       | LA01EW051             | R31404  |
| CARRIER       | LA01RA004             | R32603  |
| CARRIER       | LA01RA005             | R32607  |
| CARRIER       | LA01RA006             | R32610  |
| CARRIER       | LA01RA015             | R31811  |
| CARRIER       | LA01RA027             | R32202  |
| CARRIER       | LA01RA028B            | R32208  |
| CARRIER       | LA01RA033             | R32017  |
| CARRIER       | LA01RA038A            | R32215  |
| CARRIER       | LA01RA220             | R22001  |
| CARRIER       | LA01RA221             | R22002  |
| CARRIER       | LA01RA222             | R22401  |
| CARRIER       | LA01RA225             | R22402  |
| CARRIER       | LA01RA312             | R32402  |
| CARRIER       | LA01RA320             | R32004  |
| CARRIER       | LA01RA321             | R32008  |
| CARRIER       | LA01RA323             | R32409  |
| CARRIER       | LA01RA324             | R32406  |
| CARRIER       | LA01RA325             | R32401  |
| CARRIER       | LA01RA326             | R32602  |
| CARRIER       | LA01RA327             | R32605  |
| CARRIER       | LA01RA329             | R32606  |
| CARRIER       | LA01RA334             | R32601  |
| GOODMAN       | 10625738              | R32604  |
| GOODMAN       | 0150M00001P           | R32009  |
| GOODMAN       | 0150M00016            | R32204  |

| OEM Brand         | OEM Part number         | Item ID |
|-------------------|-------------------------|---------|
| <b>Revcor</b>     |                         |         |
| GOODMAN           | B1086756                | R31815  |
| GOODMAN           | B1086764                | R42201  |
| GOODMAN           | B1086765                | R42209  |
| GOODMAN           | B1086770                | R32201  |
| GOODMAN           | B1086771                | R31816  |
| GOODMAN           | B1086773                | R32209  |
| GOODMAN           | B1086775 / 0150M00006   | R32216  |
| LENNOX            | 100060-09 / 68J2801     | R41812  |
| LENNOX            | 100060-10               | R42210  |
| LENNOX            | 100060-13               | R42204  |
| LENNOX            | 37L4801                 | R31604  |
| LENNOX/ALLIED AIR | 68J2601 / 100060-07     | R31807  |
| LENNOX/ALLIED AIR | 68J2701 / 100060-08     | R41805  |
| LENNOX/EXCEL      | 100060-18               | R32204  |
| LENNOX/EXCEL      | 20391102                | R31817  |
| LENNOX/EXCEL      | 100060-03               | R31810  |
| LENNOX/EXCEL      | 100060-19               | R32212  |
| NORDYNE           | 667303                  | R32406  |
| NORDYNE           | 6672790                 | R32003  |
| NORDYNE           | 667261C                 | R31801  |
| NORDYNE           | 667262B                 | R31814  |
| NORDYNE           | 667316A                 | R32403  |
| NORDYNE           | 667319A                 | R22405  |
| RHEEM             | 702185906               | R22201  |
| RHEEM             | 7010132314              | R31781  |
| RHEEM             | 7010132315              | R21781  |
| RHEEM             | 7010201106              | R32010  |
| RHEEM             | 7010201107              | R22204  |
| RHEEM             | 70-102011-04            | R22406  |
| TRANE             | D154218P38 / D154218P37 | R22701  |
| TRANE             | D154229P01              | R31901  |
| TRANE             | D154229P02              | R31902  |

## KH/KC Fans



### Applications

- Commercial air conditioning and ventilation
- Air handlers
- Cooling towers
- Large unit heaters
- Agricultural applications

### Features

- 24 to 60 inch diameters
- Highly embossed for added strength
- Steel spiders
- For motor speeds up to 1140 RPM
- Rotation determined by viewing air-discharge side of fan
- Single boxed

| Item ID                          | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Location | Material | Industry No. | CSAir No. |
|----------------------------------|---------------|----------------|-----------|----------|------------|--------------|----------|--------------|-----------|
| <b>Revcor KH/KC Fans Hubless</b> |               |                |           |          |            |              |          |              |           |
| R42408                           | 4             | 24             | 28        | CW       | —          | Hubless      | ALUM     | 40200        | 42428     |
| R42407                           | 4             | 24             | 34        | CW       | —          | Hubless      | ALUM     | 40201        | 42434     |
| R42603                           | 4             | 26             | 28        | CW       | —          | Hubless      | ALUM     | 40202        | 42628     |
| R42606                           | 4             | 26             | 38        | CW       | —          | Hubless      | ALUM     | 40203        | 42638     |
| R43002                           | 4             | 30             | 22        | CW       | —          | Hubless      | ALUM     | 40205        | 43022     |
| R43004                           | 4             | 30             | 30        | CW       | —          | Hubless      | ALUM     | 40206        | 43030     |
| R43601                           | 4             | 36             | 32        | CW       | —          | Hubless      | ALUM     | 40208        | 43632     |
| R43602                           | 4             | 36             | 34        | CW       | —          | Hubless      | ALUM     | 40209        | 43634     |
| R43603                           | 4             | 36             | 38        | CW       | —          | Hubless      | ALUM     | 40211        | 43638     |
| R44201                           | 4             | 42             | 30        | CW       | —          | Hubless      | ALUM     | 40212        | 44230     |
| R44202                           | 4             | 42             | 38        | CW       | —          | Hubless      | ALUM     | 40213        | 44238     |
| R44801                           | 4             | 48             | 38        | CW       | —          | Hubless      | ALUM     | 40216        | 44838     |
| R42801                           | 4             | 28             | 34        | CW       | 5/8        | Discharge    | GALV     | 40396        | F42834    |

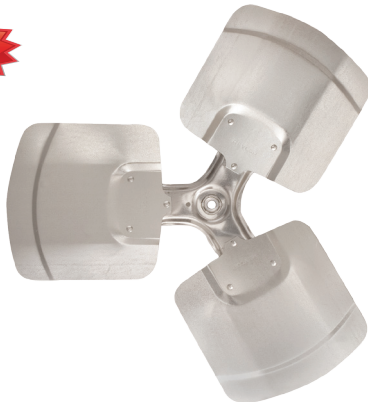
\* Fan should be guarded before operating.

\* Tighten cap screws securely before operating.





## Propellers With Fixed Hub - 3 Blades



### Applications

- Unitary condenser, heat pumps, unit heaters, ventilators and exhaust fans

### Features

- 14 to 30 inch diameters
- Highly embossed for added strength
- Factory balanced with 1/2 inch bore
- Steel spiders
- For motor speeds up to 1625 RPM
- Single boxed
- Aluminum fan blades unless otherwise specified

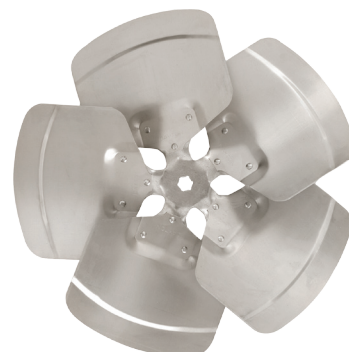
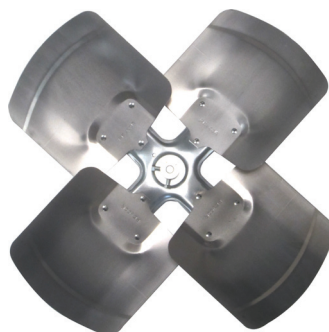
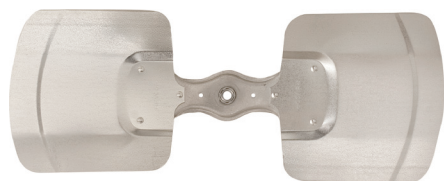
| Item ID                | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Position | CSAir No. |
|------------------------|---------------|----------------|-----------|----------|------------|--------------|-----------|
| <b>Revcor 3 Blades</b> |               |                |           |          |            |              |           |
| R31403                 | 3             | 14             | 32        | CW       | 1/2        | Discharge    | F14323    |
| R31404*                | 3             | 14             | 38        | CW       | 1/2        | Intake       |           |
| R31602                 | 3             | 16             | 28        | CW       | 1/2        | Intake       | F16283    |
| R31603                 | 3             | 16             | 30        | CW       | 1/2        | Intake       | F16283    |
| R31604                 | 3             | 16             | 32        | CCW      | 1/2        | Intake       |           |
| R31781*                | 3             | 17.8           | 34        | CCW      | 1/2        | Intake       |           |
| R31801*                | 3             | 18             | 19        | CW       | 1/2        | Intake       |           |
| R31804                 | 3             | 18             | 26        | CW       | 1/2        | Discharge    | F18263    |
| R31805                 | 3             | 18             | 26        | CCW      | 1/2        | Intake       | F18267    |
| R31809                 | 3             | 18             | 27        | CW       | 1/2        | Discharge    | F18273    |
| R31807*                | 3             | 18             | 27        | CCW      | 1/2        | Intake       |           |
| R31810*                | 3             | 18             | 27        | CCW      | 1/2        | Intake       |           |
| R31811                 | 3             | 18             | 27        | CW       | 1/2        | Intake       |           |
| R31814*                | 3             | 18             | 30        | CW       | 1/2        | Intake       |           |
| R31815*                | 3             | 18             | 31        | CCW      | 1/2        | Intake       |           |
| R31816                 | 3             | 18             | 32        | CCW      | 1/2        | Intake       |           |
| R31817                 | 3             | 18             | 32        | CW       | 1/2        | Intake       |           |
| R31820                 | 3             | 18             | 33        | CW       | 1/2        | Discharge    | F16337    |
| R31821                 | 3             | 18             | 35        | CW       | 1/2        | Intake       |           |
| R31901                 | 3             | 19             | 30        | CCW      | 1/2        | Intake       |           |
| R31902                 | 3             | 19             | 32        | CCW      | 1/2        | Intake       |           |
| R32001                 | 3             | 20             | 23        | CW       | 1/2        | Discharge    | F20233    |
| R32003*                | 3             | 20             | 26        | CW       | 1/2        | Intake       |           |
| R32004                 | 3             | 20             | 26        | CW       | 1/2        | Intake       |           |
| R32008                 | 3             | 20             | 28        | CW       | 1/2        | Intake       |           |
| R32009*                | 3             | 20             | 28        | CCW      | 1/2        | Intake       |           |
| R32010*                | 3             | 20             | 29        | CCW      | 1/2        | Intake       |           |
| R32014                 | 3             | 20             | 31        | CW       | 1/2        | Discharge    | F20313    |
| R32017                 | 3             | 20             | 34        | CW       | 1/2        | Intake       |           |
| R32201                 | 3             | 22             | 19        | CCW      | 1/2        | Intake       |           |
| R32202*                | 3             | 22             | 20        | CW       | 1/2        | Intake       |           |
| R32203                 | 3             | 22             | 20        | CW       | 1/2        | Intake       | F22203    |

\*Note - Galvanized Fan Blades

| Item ID                | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Position | CSAir No. |
|------------------------|---------------|----------------|-----------|----------|------------|--------------|-----------|
| <b>Revcor 3 Blades</b> |               |                |           |          |            |              |           |
| R32204                 | 3             | 22             | 22        | CCW      | 1/2        | Intake       |           |
| R32207*                | 3             | 22             | 24        | CW       | 1/2        | Discharge    | UT22243   |
| R32205*                | 3             | 22             | 24        | CW       | 1/2        | Intake       |           |
| R32206                 | 3             | 22             | 24        | CW       | 1/2        | Intake       | F22243    |
| R32208*                | 3             | 22             | 24        | CW       | 1/2        | Intake       |           |
| R32209                 | 3             | 22             | 24        | CCW      | 1/2        | Intake       |           |
| R32212                 | 3             | 22             | 27        | CW       | 1/2        | Intake       |           |
| R32213                 | 3             | 22             | 28        | CW       | 1/2        | Intake       |           |
| R32214                 | 3             | 22             | 28        | CW       | 1/2        | Intake       | F22283    |
| R32215*                | 3             | 22             | 28        | CW       | 1/2        | Intake       |           |
| R32216                 | 3             | 22             | 28        | CCW      | 1/2        | Intake       |           |
| R32221                 | 3             | 22             | 33        | CW       | 1/2        | Intake       | F22333    |
| R32401*                | 3             | 24             | 18        | CW       | 1/2        | Intake       |           |
| R32402*                | 3             | 24             | 19        | CW       | 1/2        | Intake       |           |
| R32403*                | 3             | 24             | 20        | CW       | 1/2        | Intake       |           |
| R32404                 | 3             | 24             | 22        | CW       | 1/2        | Intake       | F24223    |
| R32405                 | 3             | 24             | 22        | CCW      | 1/2        | Intake       | F24227    |
| R32406*                | 3             | 24             | 24        | CW       | 1/2        | Intake       |           |
| R32409*                | 3             | 24             | 26        | CW       | 1/2        | Intake       |           |
| R32410                 | 3             | 24             | 30        | CW       | 1/2        | Intake       | F24303    |
| R32601*                | 3             | 26             | 15        | CW       | 1/2        | Intake       |           |
| R32602                 | 3             | 26             | 18        | CW       | 1/2        | Intake       |           |
| R32603                 | 3             | 26             | 19        | CW       | 1/2        | Intake       |           |
| R32604                 | 3             | 26             | 20        | CCW      | 1/2        | Intake       |           |
| R32605*                | 3             | 26             | 21        | CW       | 1/2        | Intake       |           |
| R32606*                | 3             | 26             | 24        | CW       | 1/2        | Intake       |           |
| R32607                 | 3             | 26             | 24        | CW       | 1/2        | Intake       |           |
| R32608                 | 3             | 26             | 26        | CW       | 1/2        | Discharge    | F26263    |
| R32609                 | 3             | 26             | 27        | CW       | 1/2        | Intake       | F26273    |
| R32610                 | 3             | 26             | 28        | CW       | 1/2        | Intake       |           |
| R33001                 | 3             | 30             | 30        | CW       | 5/8        | Discharge    |           |

\*Note - Galvanized Fan Blades

## Propellers With Fixed Hub - 2, 4 And 5 Blades



### Applications

- Unitary condensers, heat pumps, unit heaters, ventilators and exhaust fans

### Features

- 14 to 30 inch diameters
- Highly embossed for added strength
- Factory balanced
- Steel spiders
- For motor speeds up to 1625 RPM
- Individually boxed
- Aluminum fan blades unless otherwise specified

### Pitch Gauge



PG5099801

See page 127

| Item ID               | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Position | CSAir No. |
|-----------------------|---------------|----------------|-----------|----------|------------|--------------|-----------|
| <b>Revcor 2 Blade</b> |               |                |           |          |            |              |           |
| R21402                | 2             | 14             | 36        | CW       | 1/2        | Discharge    | F14361    |
| R21401                | 2             | 14             | 36        | CCW      | 1/2        | Intake       | F14362    |
| R21781*               | 2             | 17.8           | 31        | CCW      | 1/2        | Intake       |           |
| R21801                | 2             | 18             | 20        | CW       | 1/2        | Intake       |           |
| R21802                | 2             | 18             | 24        | CW       | 1/2        | Intake       | F18241    |
| R21803                | 2             | 18             | 29        | CCW      | 1/2        | Intake       | F18292    |
| R21804                | 2             | 18             | 29        | CW       | 1/2        | Intake       | F18291    |
| R21805                | 2             | 18             | 33        | CCW      | 1/2        | Intake       |           |
| R22001                | 2             | 20             | 20        | CW       | 1/2        | Intake       |           |
| R22002                | 2             | 20             | 24        | CW       | 1/2        | Intake       |           |
| R22003                | 2             | 20             | 29        | CCW      | 1/2        | Intake       | F20292    |
| R22201*               | 2             | 22             | 22        | CCW      | 1/2        | Intake       | F22222    |
| R22202                | 2             | 22             | 27        | CCW      | 1/2        | Intake       | F22272    |
| R22203*               | 2             | 22             | 29        | CCW      | 1/2        | Intake       | F22292    |
| R22204*               | 2             | 22             | 35        | CCW      | 1/2        | Intake       |           |
| R22401*               | 2             | 24             | 16        | CW       | 1/2        | Intake       |           |
| R22402*               | 2             | 24             | 18        | CW       | 1/2        | Intake       |           |
| R22403                | 2             | 24             | 24        | CCW      | 1/2        | Intake       | F24242    |
| R22404                | 2             | 24             | 27        | CCW      | 1/2        | Intake       |           |
| R22405                | 2             | 24             | 27        | CW       | 1/2        | Intake       |           |
| R22406*               | 2             | 24             | 31        | CCW      | 1/2        | Intake       |           |
| R22701                | 2             | 27             | 28        | CCW      | 1/2        | Intake       |           |

\*Note - Galvanized Fan Blades

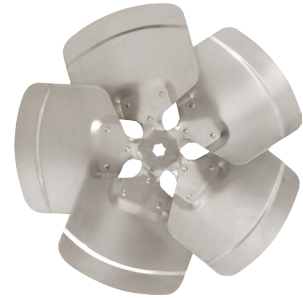
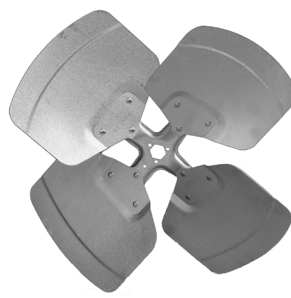
| Item ID               | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Position | CSAir No. |
|-----------------------|---------------|----------------|-----------|----------|------------|--------------|-----------|
| <b>Revcor 4 Blade</b> |               |                |           |          |            |              |           |
| R41607                | 4             | 16             | 33        | CW       | 1/2        | Discharge    | F16334    |
| R41805*               | 4             | 18             | 27        | CCW      | 1/2        | Intake       |           |
| R41808                | 4             | 18             | 30        | CW       | 1/2        | Intake       | F18304    |
| R41811                | 4             | 18             | 33        | CW       | 1/2        | Discharge    | F18334    |
| R41812                | 4             | 18             | 34        | CCW      | 1/2        | Intake       |           |
| R42009                | 4             | 20             | 33        | CW       | 1/2        | Intake       | F20334    |
| R42010                | 4             | 20             | 36        | CW       | 1/2        | Intake       | F20364    |
| R42201*               | 4             | 22             | 22        | CCW      | 1/2        | Intake       |           |
| R42205                | 4             | 22             | 24        | CW       | 1/2        | Discharge    | F22244    |
| R42204                | 4             | 22             | 24        | CCW      | 1/2        | Intake       |           |
| R42206                | 4             | 22             | 26        | CW       | 1/2        | Intake       | F22264    |
| R42209*               | 4             | 22             | 28        | CCW      | 1/2        | Intake       |           |
| R42210                | 4             | 22             | 32        | CCW      | 1/2        | Intake       |           |
| R42212                | 4             | 22             | 33        | CCW      | 1/2        | Intake       | F22338    |
| R42404                | 4             | 24             | 27        | CCW      | 1/2        | Discharge    | F24278    |
| R42604                | 4             | 26             | 30        | CW       | 5/8        | Discharge    | F26304    |
| R43001                | 4             | 30             | 22        | CW       | 5/8        | Intake       | F30224    |
| R43003*               | 4             | 30             | 30        | CW       | 5/8        | Discharge    | F43040    |

| Item ID               | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | Bore (In.) | Hub Position | CSAir No. |
|-----------------------|---------------|----------------|-----------|----------|------------|--------------|-----------|
| <b>Revcor 5 Blade</b> |               |                |           |          |            |              |           |
| R51803                | 5             | 18             | 33        | CW       | 1/2        | Discharge    | F18335    |

\*Note - Galvanized Fan Blades



## Hubless Propellers



### Applications

- Air conditioning condensers, power roof ventilators, heat pumps, heat exchangers, unit heaters, commercial and industrial equipment

### Features

- 10 to 26 inch diameter
- Steel spiders
- Highly embossed for added strength
- For motor speeds up to 1625 RPM
- Use with interchangeable hubs
- Individually boxed
- Aluminum fan blades

| Item ID | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | CSAir No. |
|---------|---------------|----------------|-----------|----------|-----------|
|---------|---------------|----------------|-----------|----------|-----------|

#### Revcor 3 Blade

|        |   |    |    |     |       |
|--------|---|----|----|-----|-------|
| R31201 | 3 | 12 | 19 | CW  | 12193 |
| R31202 | 3 | 12 | 27 | CW  | 12273 |
| R31401 | 3 | 14 | 23 | CW  | 14233 |
| R31402 | 3 | 14 | 27 | CW  | 14273 |
| R31601 | 3 | 16 | 23 | CW  |       |
| R31802 | 3 | 18 | 23 | CCW | 18237 |
| R31803 | 3 | 18 | 23 | CW  | 18233 |
| R31806 | 3 | 18 | 27 | CCW | 18277 |
| R31808 | 3 | 18 | 27 | CW  | 18273 |
| R31812 | 3 | 18 | 30 | CCW | 18307 |
| R31813 | 3 | 18 | 30 | CW  | 18303 |
| R31818 | 3 | 18 | 33 | CCW | 18337 |
| R31819 | 3 | 18 | 33 | CW  | 18333 |
| R32002 | 3 | 20 | 24 | CW  | 20243 |
| R32005 | 3 | 20 | 27 | CW  |       |
| R32006 | 3 | 20 | 28 | CCW | 22333 |
| R32007 | 3 | 20 | 28 | CW  |       |
| R32011 | 3 | 20 | 30 | CW  | 24289 |
| R32012 | 3 | 20 | 31 | CCW | 24335 |
| R32013 | 3 | 20 | 31 | CW  |       |
| R32015 | 3 | 20 | 33 | CCW | 20337 |
| R32016 | 3 | 20 | 33 | CW  | 20333 |
| R32210 | 3 | 22 | 27 | CCW | 22277 |
| R32211 | 3 | 22 | 27 | CW  | 22273 |
| R32217 | 3 | 22 | 30 | CCW | 22307 |
| R32218 | 3 | 22 | 30 | CW  | 22303 |
| R32219 | 3 | 22 | 33 | CCW | 22337 |
| R32220 | 3 | 22 | 33 | CW  | 22333 |
| R32407 | 3 | 24 | 26 | CCW | 24267 |
| R32408 | 3 | 24 | 26 | CW  | 24263 |
| R32411 | 3 | 24 | 33 | CW  |       |

| Item ID | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | CSAir No. |
|---------|---------------|----------------|-----------|----------|-----------|
|---------|---------------|----------------|-----------|----------|-----------|

#### Revcor 5 Blade

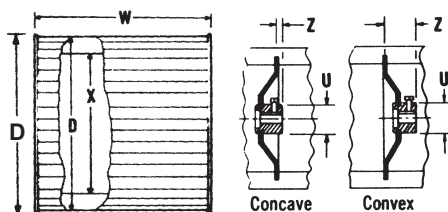
|        |   |    |    |     |        |
|--------|---|----|----|-----|--------|
| R51601 | 5 | 16 | 27 | CCW | 20333  |
| R51602 | 5 | 16 | 33 | CW  | F16335 |
| R51801 | 5 | 18 | 27 | CCW | 18279  |
| R51802 | 5 | 18 | 27 | CW  | 18275  |
| R52201 | 5 | 22 | 33 | CW  | 22335  |
| R52401 | 5 | 24 | 27 | CW  | 18307  |
| R52402 | 5 | 24 | 33 | CW  | 24335  |

| Item ID | No. of Blades | Diameter (In.) | Pitch (°) | Rotation | CSAir No. |
|---------|---------------|----------------|-----------|----------|-----------|
|---------|---------------|----------------|-----------|----------|-----------|

#### Revcor 4 Blade

|        |   |    |    |     |       |
|--------|---|----|----|-----|-------|
| R41001 | 4 | 10 | 27 | CW  | 10274 |
| R41201 | 4 | 12 | 23 | CCW | 12238 |
| R41202 | 4 | 12 | 23 | CW  | 12234 |
| R41203 | 4 | 12 | 27 | CCW | 12268 |
| R41204 | 4 | 12 | 27 | CW  | 12264 |
| R41205 | 4 | 12 | 33 | CW  | 12334 |
| R41401 | 4 | 14 | 23 | CCW | 14238 |
| R41403 | 4 | 14 | 23 | CW  | 14234 |
| R41404 | 4 | 14 | 23 | CW  |       |
| R41405 | 4 | 14 | 27 | CCW | 14268 |
| R41406 | 4 | 14 | 27 | CW  | 14264 |
| R41407 | 4 | 14 | 33 | CW  | 14334 |
| R41601 | 4 | 16 | 23 | CCW | 16238 |
| R41602 | 4 | 16 | 23 | CW  | 16234 |
| R41603 | 4 | 16 | 27 | CCW | 16268 |
| R41604 | 4 | 16 | 27 | CW  | 16264 |
| R41605 | 4 | 16 | 33 | CCW | 16338 |
| R41606 | 4 | 16 | 33 | CW  | 16334 |
| R41801 | 4 | 18 | 19 | CW  | 18194 |
| R41802 | 4 | 18 | 23 | CCW | 18248 |
| R41803 | 4 | 18 | 23 | CW  | 18244 |
| R41804 | 4 | 18 | 27 | CCW | 18278 |
| R41806 | 4 | 18 | 27 | CW  | 18274 |
| R41807 | 4 | 18 | 30 | CCW | 18308 |
| R41809 | 4 | 18 | 33 | CCW | 18338 |
| R41810 | 4 | 18 | 33 | CW  | 18334 |
| R42001 | 4 | 20 | 23 | CCW | 20238 |
| R42002 | 4 | 20 | 23 | CW  | 20234 |
| R42003 | 4 | 20 | 27 | CCW | 20268 |
| R42004 | 4 | 20 | 27 | CW  | 20264 |
| R42005 | 4 | 20 | 29 | CCW | 20298 |
| R42006 | 4 | 20 | 29 | CW  | 20294 |
| R42007 | 4 | 20 | 33 | CCW | 20338 |
| R42008 | 4 | 20 | 33 | CW  | 20334 |
| R42202 | 4 | 22 | 23 | CCW | 22238 |
| R42203 | 4 | 22 | 23 | CW  | 22234 |
| R42207 | 4 | 22 | 27 | CCW | 22278 |
| R42208 | 4 | 22 | 27 | CW  | 22274 |
| R42211 | 4 | 22 | 33 | CW  | 22334 |
| R42213 | 4 | 22 | 35 | CW  | 22354 |
| R42401 | 4 | 24 | 23 | CCW | 24238 |
| R42402 | 4 | 24 | 23 | CW  | 24234 |
| R42403 | 4 | 24 | 27 | CCW | 24278 |
| R42405 | 4 | 24 | 27 | CW  | 24274 |
| R42406 | 4 | 24 | 33 | CW  | 24324 |
| R42601 | 4 | 26 | 24 | CW  | 26244 |
| R42602 | 4 | 26 | 27 | CW  | 26274 |
| R42605 | 4 | 26 | 33 | CW  | 26334 |

## Double Inlet Blower Wheels



### Fan Blade & Blower Wheel Puller



A89000

See page 127

### Features

- Universal replacement wheels for direct drive blowers
- Galvanized, cold rolled steel
- Recommended for application temps that do not exceed 135°F (60°C)

| Item ID   | Bore | Rotation | Center Disc | Max RPM | D      | W      | Dimensions (In.) |       |         |
|-----------|------|----------|-------------|---------|--------|--------|------------------|-------|---------|
|           |      |          |             |         |        |        | X                | U     | Z       |
| Lau       |      |          |             |         |        |        |                  |       |         |
| L01333501 | 1/2  | CW       | Convex      | 1750    | 9 1/2  | 6      | 7 11/16          | 1 1/4 | 1 25/32 |
| L01333602 | 1/2  | CW       | Convex      | 1750    | 9 1/2  | 7 1/8  | 7 11/16          | 1 1/4 | 1 25/32 |
| L01333603 | 1/2  | CCW      | Convex      | 1750    | 9 1/2  | 7 1/8  | 7 11/16          | 1 1/4 | 1 25/32 |
| L01333701 | 1/2  | CW       | Convex      | 1750    | 9 1/2  | 8      | 7 11/16          | 1 1/4 | 1 25/32 |
| L01333703 | 1/2  | CCW      | Convex      | 1750    | 9 1/2  | 8      | 7 11/16          | 1 1/4 | 1 25/32 |
| L01333201 | 1/2  | CW       | Concave     | 1750    | 9 1/2  | 9 1/2  | 7 11/16          | 1 1/4 | 7/32    |
| L01333203 | 1/2  | CCW      | Concave     | 1750    | 9 1/2  | 9 1/2  | 7 11/16          | 1 1/4 | 7/32    |
| L01332701 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 4 1/2  | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332601 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 6      | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332602 | 1/2  | CCW      | Convex      | 1750    | 10 5/8 | 6      | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332614 | 5/8  | CW       | Convex      | 1750    | 10 5/8 | 6      | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332501 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 7 1/8  | 8 7/8            | 1 1/4 | 1 15/16 |
| L02710204 | 1/2  | CCW      | Convex      | 1750    | 10 5/8 | 7 1/8  | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332401 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 8      | 8 7/8            | 1 1/4 | 1 15/16 |
| L01332402 | 1/2  | CCW      | Convex      | 1750    | 10 5/8 | 8      | 8 7/8            | 1 1/4 | 1 15/16 |
| L01331701 | 1/2  | CW       | Concave     | 1750    | 10 5/8 | 9 1/2  | 8 7/8            | 1 1/4 | 1/16    |
| L01331704 | 1/2  | CCW      | Concave     | 1750    | 10 5/8 | 9 1/2  | 8 7/8            | 1 1/4 | 1/16    |
| L01332301 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 9 1/2  | 8 7/8            | 1 1/4 | 1/16    |
| L01331602 | 1/2  | CW       | Concave     | 1750    | 10 5/8 | 10 5/8 | 8 7/8            | 1 1/4 | 1/16    |
| L01332203 | 1/2  | CW       | Convex      | 1750    | 10 5/8 | 10 5/8 | 8 7/8            | 1 1/4 | 1/16    |
| L01331606 | 1/2  | CCW      | Concave     | 1750    | 10 5/8 | 10 5/8 | 8 7/8            | 1 1/4 | 1/16    |
| L02694003 | 1/2  | CW       | Convex      | 1550    | 11 3/4 | 6      | 10               | 1 1/4 | —       |
| L02694005 | 1/2  | CW       | Convex      | 1550    | 11 3/4 | 7 1/8  | 10               | 1 1/4 | —       |
| L02694007 | 1/2  | CW       | Convex      | 1550    | 11 3/4 | 8      | 10               | 1 1/4 | —       |
| L02694107 | 1/2  | CW       | Concave     | 1550    | 11 3/4 | 8      | 10               | 1 1/4 | —       |
| L02694008 | 1/2  | CCW      | Convex      | 1550    | 11 3/4 | 8      | 10               | 1 1/4 | —       |
| L02694009 | 1/2  | CW       | Convex      | 1550    | 11 3/4 | 9 1/2  | 10               | 1 1/4 | —       |
| L02694010 | 1/2  | CCW      | Convex      | 1550    | 11 3/4 | 9 1/2  | 10               | 1 1/4 | —       |
| L02694111 | 1/2  | CW       | Concave     | 1550    | 11 3/4 | 10 5/8 | 10               | 1 1/4 | —       |
| L02694112 | 1/2  | CCW      | Concave     | 1550    | 11 3/4 | 10 5/8 | 10               | 1 1/4 | —       |
| L01369325 | 1/2  | CW       | Convex      | 1200    | 12 5/8 | 9 1/2  | 10 5/16          | 1 1/4 | 2       |
| L01369315 | 5/8  | CW       | Convex      | 1200    | 12 5/8 | 9 1/2  | 10 5/16          | 1 1/4 | 2       |
| L01556507 | 1/2  | CW       | Concave     | 1200    | 12 5/8 | 12 5/8 | 10 5/16          | 1 1/4 | 1/16    |
| L01556504 | 5/8  | CW       | Concave     | 1200    | 12 5/8 | 12 5/8 | 10 5/16          | 1 1/4 | 1/16    |



## Galvanized Steel Blower Wheels



### Applications

- Condensers, draft boosters, flue exhaust, small appliances, furnaces

### Features

- Rotation viewed side opposite hub

| Item ID        | Diameter (In.) | Width (In.) | Rotation | Bore (In.) | Max RPM                    |
|----------------|----------------|-------------|----------|------------|----------------------------|
| <b>Packard</b> |                |             |          |            |                            |
| BW16039        | 3              | 1 7/8       | CCW      | 1/4        | 5000                       |
| BW16038        | 3              | 1 7/8       | CW       | 1/4        | 5000                       |
| BW16044        | 3 13/16        | 2 1/2       | CW       | 5/16       | 5000                       |
| BW16043        | 3 13/16        | 1 7/8       | CW       | 5/16       | 5000                       |
| BW16042        | 3 13/16        | 1 7/8       | CCW      | 5/16       | 5000                       |
| BW16045        | 3 13/16        | 2 1/2       | CCW      | 5/16       | 5000                       |
| BW16041        | 3 13/16        | 1 7/8       | CW       | 1/4        | 5000                       |
| BW16040        | 3 13/16        | 1 7/8       | CCW      | 1/4        | 5000                       |
| BW16114        | 3 27/32        | 1 1/4       | CW       | 1/4        | 5600                       |
| BW16113        | 3 27/32        | 1           | CW       | 1/4        | 5800                       |
| BW16051        | 3 27/32        | 1 13/64     | CCW      | 1/4        | 5640                       |
| BW16141        | 4              | 1 1/2       | CCW      | 5/16       | 3600                       |
| BW16133        | 4              | 2 1/2       | CCW      | 1/4        | 3600                       |
| BW16123        | 4              | 7/8         | CW       | 5/16       | 3600                       |
| BW16046        | 4 1/4          | 2           | CCW      | 1/4        | 4500                       |
| BW16052        | 4 1/4          | 2 15/16     | CCW      | 1/4        | 4500                       |
| BW16047        | 4 1/4          | 2           | CCW      | 5/16       | 4500                       |
| BW11046        | 4 1/2          | 1 5/8       | CCW      | 1/4        | Replaces Carrier LAXA046   |
| BW16160        | 4 17/32        | 1 1/4       | CW       | 5/16       | 6300                       |
| BW16161        | 4 17/32        | 1 1/4       | CCW      | 5/16       | 6300                       |
| BW16048        | 4 23/32        | 2 15/16     | CW       | 5/16       | 3600                       |
| BW16054        | 5 13/64        | 2 29/32     | CCW      | 5/16       | 3600                       |
| BW16025        | 5 13/64        | 2 1/2       | CCW      | 5/16       | 3600                       |
| BW16053        | 5 13/64        | 2 29/32     | CW       | 5/16       | 3600                       |
| BW16024        | 5 13/64        | 2 1/2       | CW       | 5/16       | 3600                       |
| BW16549        | 5 1/4          | 1           | CW       | 5/16       | Replaces Carrier LA21RB549 |
| BW16548        | 5 3/4          | 1           | CW       | 5/16       | Replaces Carrier LA21RB548 |
| BW16026        | 5 45/64        | 2 15/16     | CCW      | 5/16       | 3000                       |
| BW16002        | 5 45/64        | 4           | CW       | 1/2        | 2800                       |
| BW16057        | 5 45/64        | 4           | CCW      | 1/2        | 2800                       |
| BW16143        | 5 3/4          | 1 1/2       | CCW      | 5/16       | 3600                       |
| BW16058        | 6              | 3 1/4       | CW       | 1/2        | 2400                       |
| BW16010        | 6              | 3 1/4       | CCW      | 1/2        | 2400                       |
| BW16060        | 6 3/16         | 2 15/16     | CCW      | 3/8        | 3000                       |
| BW16064        | 6 25/64        | 4           | CCW      | 1/2        | 1700                       |
| BW16063        | 6 25/64        | 4           | CW       | 1/2        | 1700                       |
| BW16005        | 7 1/8          | 4           | CCW      | 1/2        | 1500                       |
| BW16066        | 7 1/8          | 2           | CCW      | 5/16       | 2900                       |
| BW16070        | 7 31/64        | 3 1/2       | CW       | 1/2        | 1800                       |
| BW16071        | 7 31/64        | 3 1/2       | CCW      | 1/2        | 1800                       |
| BW16006        | 8 5/64         | 4           | CW       | 1/2        | 1650                       |
| BW16074        | 8 5/64         | 4           | CCW      | 1/2        | 1650                       |
| BW16077        | 8 35/64        | 3           | CCW      | 1/2        | 2050                       |
| BW16008        | 9 1/8          | 5           | CW       | 1/2        | 1350                       |
| BW16007        | 9 1/8          | 4 1/4       | CW       | 1/2        | 1475                       |
| BW16009        | 9 1/8          | 5           | CCW      | 1/2        | 1350                       |
| BW16079        | 9 31/32        | 4           | CW       | 1/2        | 1350                       |
| BW16080        | 9 31/32        | 4           | CCW      | 1/2        | 1350                       |
| BW16027        | 9 31/32        | 6           | CW       | 1/2        | 1100                       |
| BW16028        | 9 31/32        | 6           | CCW      | 1/2        | 1100                       |

## Plastic Fan Blades



| Item ID        | Diameter (In.) | Number of Blades | Rotation | Bore (In.) | Replaces Notes |
|----------------|----------------|------------------|----------|------------|----------------|
| <b>Packard</b> |                |                  |          |            |                |
| A61299         | 2 1/2          | 4                | CW       | 3/16       |                |
| A61300         | 3              | 4                | CW       | 1/8        |                |
| A61301         | 3              | 4                | CW       | 3/16       |                |
| A61302         | 3 1/2          | 4                | CCW      | 3/16       |                |
| A61353         | 4              | 4                | CCW      | Hub        |                |
| A61406         | 4              | 4                | CW       | 1/8        |                |
| A61408         | 4              | 4                | CW       | 3/16       |                |
| A61550         | 5 1/2          | 4                | CCW      | 3/16       |                |
| A61551         | 5 1/2          | 4                | CW       | 3/16       |                |
| A61602         | 6              | 4                | CW       | 1/4        |                |
| A61603         | 6              | 4                | CW       | 5/16       |                |
| A61604         | 6              | 4                | CCW      | 3/16       |                |
| A61605         | 6              | 4                | CCW      | 1/4        |                |
| A61606         | 6              | 4                | CCW      | 5/16       |                |
| A61401         | 4              | 5                | CW       | 1/8        |                |
| A61402         | 4              | 5                | CW       | 3/16       |                |
| A61403         | 4              | 5                | CCW      | 1/8        |                |
| A61404         | 4              | 5                | CCW      | 3/16       |                |
| A61501         | 5              | 5                | CW       | 3/16       |                |
| A61502         | 5              | 5                | CW       | 1/4        |                |
| A61503         | 5              | 5                | CW       | 5/16       |                |
| A61504         | 5              | 5                | CCW      | 3/16       |                |
| A61505         | 5              | 5                | CCW      | 1/4        |                |
| A61506         | 5              | 5                | CCW      | 5/16       |                |
| A61455         | 5 9/16         | 5                | CCW      | 3/16       |                |
| A61650         | 6 1/2          | 5                | CW       | 3/16       |                |
| A61651         | 6 1/2          | 5                | CW       | 1/4        |                |
| A61652         | 6 1/2          | 5                | CW       | 5/16       |                |
| A61660         | 6 5/8          | 5                | CW       | 7/32       | D-STYLE BORE   |
| A61665         | 6 5/8          | 5                | CW       | 7/32       | D-STYLE BORE   |
| A61701         | 7              | 5                | CW       | 1/4        |                |
| A61703         | 7              | 5                | CCW      | 1/4        |                |
| A61718         | 7              | 5                | CW       | Hub        | Gemline FB718  |
| A61801         | 8              | 5                | CW       | 1/4        |                |
| A61802         | 8              | 5                | CW       | 5/16       |                |
| A61601         | 6              | 6                | CW       | 3/16       |                |

## Plastic Blower Wheels And Impellers



A65900



A65100FB  
A65216FB  
A64031FB

| Item ID        | Bore (In.) | Diameter (In.) | Width (In.) | Bore    | Replaces         |
|----------------|------------|----------------|-------------|---------|------------------|
| <b>Packard</b> |            |                |             |         |                  |
| A65900         | 1/4        | 5 3/4          | 2           | D Shape | Nutone 59000A000 |
| A65100FB       | 7/32       | 4 9/16         | —           | D Shape | Nutone 68920     |
| A65216FB       | 3/16       | 4 1/2          | —           | D Shape |                  |
| A64031FB       | 0.181      | 4 1/2          | —           | Round   |                  |

## Small Aluminum Fan Blades With Hubs



4 Blades



5 Blades



10 Blades

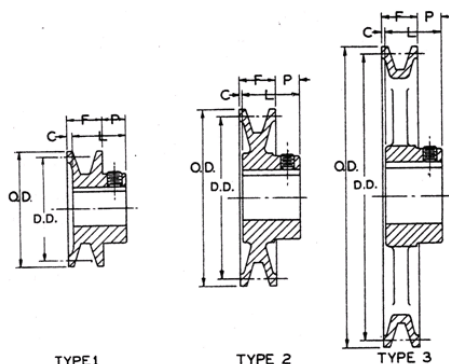


FB99100

| Item ID        | Diameter (In.) | Blades | Hub Location | Bore | Pitch (°) | Rotation |
|----------------|----------------|--------|--------------|------|-----------|----------|
| <b>Packard</b> |                |        |              |      |           |          |
| A61948         | 2              | 10     | Intake       | 3/16 | 12        | CW       |
| A61949         | 2 1/2          | 10     | Intake       | 3/16 | 20        | CW       |
| A61950         | 3              | 10     | Intake       | 3/16 | 24        | CW       |
| A61954         | 3              | 10     | Intake       | 1/4  | 30        | CW       |
| A61951         | 3 1/2          | 10     | Intake       | 3/16 | 27        | CW       |
| A61955         | 3 1/2          | 10     | Intake       | 1/4  | 40        | CW       |
| A61952         | 4              | 10     | Intake       | 3/16 | 28        | CW       |
| A61003         | 4              | 10     | Intake       | 3/16 | 28        | CW       |
| A61956         | 4              | 10     | Intake       | 1/4  | 30        | CW       |
| A61465         | 4 1/2          | 10     | Intake       | 3/16 | 30        | CW       |
| A61467         | 5              | 10     | Intake       | 3/16 | 35        | CW       |
| A61468         | 5              | 10     | Intake       | 1/4  | 40        | CW       |
| A61473         | 5 1/2          | 4      | Intake       | 1/4  | 19        | CW       |
| A61474         | 5 1/2          | 4      | Intake       | 3/16 | 19        | CW       |
| A61476         | 5 1/2          | 4      | Intake       | 3/16 | 19        | CCW      |
| A64550         | 5 1/2          | 4      | Intake       | 3/16 | 19        | CW       |
| A64455         | 5 1/2          | 4      | Intake       | 3/16 | 24        | CCW      |
| A65503         | 5 1/2          | 5      | Intake       | 5/16 | 27        | CW       |
| A65504         | 5 1/2          | 5      | Intake       | 1/4  | 27        | CW       |
| A65513         | 5 1/2          | 5      | Intake       | 5/16 | 27        | CCW      |
| A65515         | 5 1/2          | 5      | Intake       | 1/4  | 27        | CCW      |
| A61469         | 6              | 4      | Intake       | 3/16 | 19        | CW       |
| A61470         | 6              | 4      | Intake       | 1/4  | 19        | CW       |
| A65125         | 6              | 4      | Intake       | 1/4  | 19        | CW       |
| A60604         | 6              | 5      | Intake       | 1/4  | 27        | CW       |
| A60614         | 6              | 5      | Intake       | 1/4  | 27        | CCW      |
| A65632         | 6              | 5      | Intake       | 5/16 | 27        | CW       |
| A65633         | 6              | 5      | Intake       | 5/16 | 27        | CCW      |
| A65131         | 6              | 5      | Intake       | 5/16 | 30        | CW       |
| A65225         | 6              | 5      | Discharge    | 1/4  | 30        | CCW      |
| A65231         | 6              | 5      | Discharge    | 5/16 | 30        | CCW      |
| A61471         | 6 1/2          | 4      | Intake       | 3/16 | 19        | CW       |
| A61472         | 6 1/2          | 4      | Intake       | 1/4  | 19        | CW       |
| A64650         | 6 1/2          | 4      | Intake       | 1/4  | 19        | CW       |
| A66504         | 6 1/2          | 5      | Intake       | 1/4  | 27        | CW       |
| A63473         | 7              | 5      | Intake       | 1/4  | 21        | CW       |
| A60704         | 7              | 5      | Intake       | 1/4  | 27        | CW       |
| A60714         | 7              | 5      | Intake       | 1/4  | 27        | CCW      |
| A65732         | 7              | 5      | Intake       | 5/16 | 27        | CW       |
| A75131         | 7              | 5      | Intake       | 5/16 | 40        | CW       |
| A75225         | 7              | 5      | Discharge    | 1/4  | 40        | CCW      |
| A75231         | 7              | 5      | Discharge    | 5/16 | 40        | CCW      |

| Item ID        | Diameter (In.) | Blades | Hub Location | Bore | Pitch (°) | Rotation |
|----------------|----------------|--------|--------------|------|-----------|----------|
| <b>Packard</b> |                |        |              |      |           |          |
| A63475         | 8              | 5      | Intake       | 1/4  | 23        | CW       |
| A63841         | 8              | 5      | Discharge    | 1/4  | 24        | CW       |
| A65825         | 8              | 5      | Intake       | 1/4  | 27        | CW       |
| A65826         | 8              | 5      | Intake       | 1/4  | 27        | CCW      |
| A65832         | 8              | 5      | Intake       | 5/16 | 27        | CW       |
| A65833         | 8              | 5      | Intake       | 5/16 | 27        | CCW      |
| A85131         | 8              | 5      | Intake       | 5/16 | 30        | CW       |
| A60804         | 8              | 5      | Intake       | 1/4  | 36        | CW       |
| A60805         | 8              | 5      | Intake       | 5/16 | 36        | CW       |
| A60814         | 8              | 5      | Intake       | 1/4  | 36        | CCW      |
| A60815         | 8              | 5      | Intake       | 5/16 | 36        | CCW      |
| A85225         | 8              | 5      | Discharge    | 1/4  | 40        | CCW      |
| A85231         | 8              | 5      | Discharge    | 5/16 | 40        | CCW      |
| A63477         | 9              | 5      | Intake       | 1/4  | 25        | CW       |
| A65925         | 9              | 5      | Intake       | 1/4  | 26        | CW       |
| A65926         | 9              | 5      | Intake       | 1/4  | 26        | CCW      |
| A65932         | 9              | 5      | Intake       | 5/16 | 26        | CW       |
| A65933         | 9              | 5      | Intake       | 5/16 | 26        | CCW      |
| A95131         | 9              | 5      | Intake       | 5/16 | 30        | CW       |
| A95225         | 9              | 5      | Discharge    | 1/4  | 30        | CCW      |
| A95231         | 9              | 5      | Discharge    | 5/16 | 30        | CCW      |
| A65105         | 10             | 5      | Intake       | 1/4  | 20        | CCW      |
| A65104         | 10             | 5      | Intake       | 1/4  | 20        | CW       |
| A65133         | 10             | 5      | Intake       | 5/16 | 20        | CCW      |
| A65132         | 10             | 5      | Intake       | 5/16 | 20        | CW       |
| A63479         | 10             | 5      | Intake       | 1/4  | 28        | CW       |
| A15225         | 10             | 5      | Discharge    | 1/4  | 30        | CCW      |
| A61322         | 10             | 5      | Intake       | 5/16 | 30        | CCW      |
| A61323         | 10             | 5      | Discharge    | 5/16 | 30        | CCW      |
| A61312         | 10             | 5      | Intake       | 5/16 | 30        | CW       |
| A61015         | 10             | 5      | Intake       | 5/16 | 40        | CCW      |
| A61005         | 10             | 5      | Intake       | 5/16 | 40        | CW       |
| A65123         | 12             | 5      | Discharge    | 5/16 | 23        | CW       |
| A61215         | 12             | 5      | Intake       | 5/16 | 24        | CCW      |
| A61216         | 12             | 5      | Discharge    | 5/16 | 24        | CCW      |
| A61205         | 12             | 5      | Intake       | 5/16 | 24        | CW       |
| FB99100 *      | 12             | 5      | Discharge    | 1/2  | 33        | CW       |
| A61405         | 14             | 5      | Intake       | 5/16 | 19        | CW       |
| A65145         | 14             | 5      | Intake       | 1/2  | 32        | CW       |

## Single Groove Pulleys For 4L Or A Belts



### Features

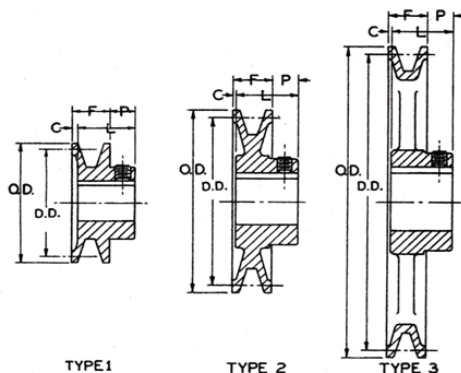
- PACKARD DRIVE "PAK" pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- Furnished with standard keyway and hollow head set screws.
- 3L belts may be used with these pulleys.

| Bore Range (In.) | Keyway (In.) |
|------------------|--------------|
| 1/2              | None         |
| 5/8 - 7/8        | 3/16 x 3/32  |
| 1 5/16 - 1 1/4   | 1/4 x 1/8    |
| 1 7/16           | 3/8 x 3/16   |

| Item ID        | O.D. | Diameter (In.)<br>Datum A | Pitch 3L | Type | Stock Bore (In.) | F     | Dimensions (In.)<br>L | P     | C    | Replaces<br>Browning |
|----------------|------|---------------------------|----------|------|------------------|-------|-----------------------|-------|------|----------------------|
| <b>Packard</b> |      |                           |          |      |                  |       |                       |       |      |                      |
| PAK1712        | 1.75 | 1.5                       | 1.16     | 1    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK1712               |
| PAK1758        | 1.75 | 1.5                       | 1.16     | 1    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK1758               |
| PAK2012        | 2    | 1.8                       | 1.46     | 1    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2012               |
| PAK2058        | 2    | 1.8                       | 1.46     | 1    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2058               |
| PAK2212        | 2.2  | 2                         | 1.66     | 1    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2212               |
| PAK2258        | 2.2  | 2                         | 1.66     | 1    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2258               |
| PAK2312        | 2.3  | 2.1                       | 1.76     | 1    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2312               |
| PAK2358        | 2.3  | 2.1                       | 1.76     | 1    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2358               |
| PAK2512        | 2.5  | 2.3                       | 1.96     | 2    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2512               |
| PAK2558        | 2.5  | 2.3                       | 1.96     | 2    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2558               |
| PAK2712        | 2.7  | 2.5                       | 2.16     | 2    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2712               |
| PAK2758        | 2.7  | 2.5                       | 2.16     | 2    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK2758               |
| PAK3012        | 3.05 | 2.8                       | 2.46     | 2    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3012               |
| PAK3058        | 3.05 | 2.8                       | 2.46     | 2    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3058               |
| PAK3034        | 3.05 | 2.8                       | 2.46     | 2    | 3/4              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3034               |
| PAK3412        | 3.45 | 3.2                       | 2.86     | 2    | 1/2              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3412               |
| PAK3458        | 3.45 | 3.2                       | 2.86     | 2    | 5/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3458               |
| PAK3478        | 3.45 | 3.2                       | 2.86     | 2    | 7/8              | 21/32 | 15/16                 | 7/16  | 5/32 | AK3478               |
| PAK3958        | 3.75 | 3.5                       | 3.16     | 2    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK3958               |
| PAK4158        | 3.95 | 3.7                       | 3.36     | 2    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK4158               |
| PAK4178        | 3.95 | 3.7                       | 3.36     | 2    | 7/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK4178               |
| PAK4458        | 4.25 | 4                         | 3.66     | 3    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK4458               |
| PAK4658        | 4.45 | 4.2                       | 3.86     | 3    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK4658               |
| PAK5158        | 4.95 | 4.7                       | 4.36     | 3    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK5158               |
| PAK5178        | 4.95 | 4.7                       | 4.36     | 3    | 7/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK5178               |
| PAK5634        | 5.45 | 5.2                       | 4.86     | 3    | 3/4              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK5634               |
| PAK5978        | 5.75 | 5.5                       | 5.16     | 3    | 7/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK5978               |
| PAK6158        | 5.95 | 5.7                       | 5.36     | 3    | 5/8              | 3/4   | 1 5/32                | 15/32 | 1/16 | AK6158               |
| PAK8934        | 8.75 | 8.5                       | 8.16     | 3    | 3/4              | 3/4   | 1 15/32               | 23/32 | 0    | AK8934               |

• Do not use PAK sheaves with bores 1" and under with coggod belt ratings.

## Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts



### Features

- PACKARD DRIVE “PBK” pulleys are accurately machined from grained cast iron, statically balanced, painted and individually packaged.
- Furnished with standard keyway and hollow head set screws.

| Bore Range (In.) | Keyway (In.) |
|------------------|--------------|
| 1/2              | None         |
| 5/8 - 7/8        | 3/16 x 3/32  |
| 1 5/16 - 1 1/4   | 1/4 x 1/8    |
| 1 7/16           | 3/8 x 3/16   |

| Item ID        | O.D. | Diameter (In.)<br>Datum A | Datum B | Type | Stock Bore (In.) | F     | Dimensions (In.)<br>L | P     | C    | Replaces<br>Browning |
|----------------|------|---------------------------|---------|------|------------------|-------|-----------------------|-------|------|----------------------|
| <b>Packard</b> |      |                           |         |      |                  |       |                       |       |      |                      |
| PBK2558        | 2.5  | 1.9                       | 2.3     | 1    | 5/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK2558               |
| PBK2758        | 2.7  | 2.1                       | 2.5     | 2    | 5/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK2758               |
| PBK2812        | 2.95 | 2.2                       | 2.6     | 2    | 1/2              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK2812               |
| PBK2858        | 2.95 | 2.2                       | 2.6     | 2    | 5/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK2858               |
| PBK2878        | 2.95 | 2.2                       | 2.6     | 2    | 7/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK2878               |
| PBK3012        | 3.15 | 2.4                       | 2.8     | 2    | 1/2              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK3012               |
| PBK3058        | 3.15 | 2.4                       | 2.8     | 2    | 5/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK3058               |
| PBK3258        | 3.35 | 2.6                       | 3       | 2    | 5/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK3258               |
| PBK3234        | 3.35 | 2.6                       | 3       | 2    | 3/4              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK3234               |
| PBK3278        | 3.35 | 2.6                       | 3       | 2    | 7/8              | 13/16 | 1 1/16                | 13/32 | 5/32 | BK3278               |
| PBK3412        | 3.55 | 2.8                       | 3.2     | 2    | 1/2              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK3412               |
| PBK3458        | 3.55 | 2.8                       | 3.2     | 2    | 5/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK3458               |
| PBK3658        | 3.75 | 3                         | 3.4     | 2    | 5/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK3658               |
| PBK4058        | 3.95 | 3.2                       | 3.6     | 2    | 5/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK4058               |
| PBK4078        | 3.95 | 3.2                       | 3.6     | 2    | 7/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK4078               |
| PBK4758        | 4.45 | 3.7                       | 4.1     | 2    | 5/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK4758               |
| PBK5278        | 4.95 | 4.2                       | 4.6     | 3    | 7/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK5278               |
| PBK6058        | 5.75 | 5                         | 5.4     | 3    | 5/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK6058               |
| PBK6034        | 5.75 | 5                         | 5.4     | 3    | 3/4              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK6034               |
| PBK6078        | 5.75 | 5                         | 5.4     | 3    | 7/8              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK6078               |
| PBK6234        | 5.95 | 5.2                       | 5.6     | 3    | 3/4              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK6234               |
| PBK6534        | 6.25 | 5.5                       | 5.9     | 3    | 3/4              | 7/8   | 1 5/32                | 13/32 | 1/8  | BK6534               |
| PBK7534        | 7.25 | 6.5                       | 6.9     | 3    | 3/4              | 7/8   | 1 15/32               | 21/32 | 1/16 | BK7534               |

• Do not use PBK sheaves with bores 1” and under with cogged belt ratings.

## Stock “PH” Bushings



### Stock Spline Bores

0.978 - 10 Inv

1 1/8 - 6B

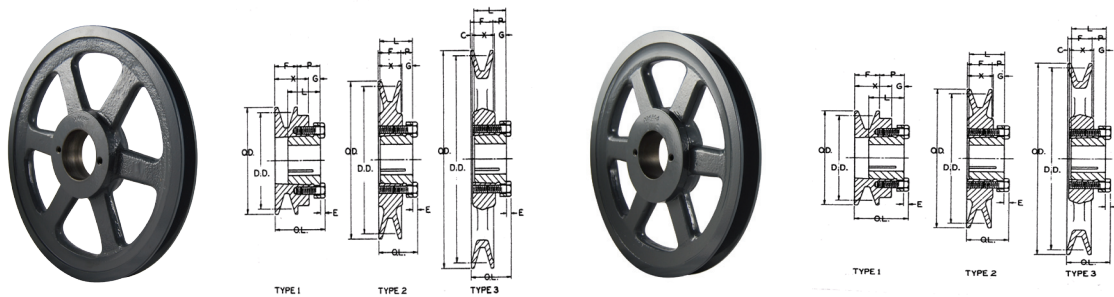
1 3/8 - 6B

1 3/8 - 21 Inv

| Item ID        | Stock<br>Bore (In.) | Key Way     |
|----------------|---------------------|-------------|
| <b>Packard</b> |                     |             |
| PH12           | 1/2                 | 1/8 x 1/16  |
| PH58           | 5/8                 | 3/16 x 3/32 |
| PH34           | 3/4                 | 3/16 x 3/32 |
| PH1316         | 13/16               | 3/16 x 3/32 |
| PH78           | 7/8                 | 3/16 x 3/32 |
| PH1            | 1                   | 1/4 x 1/8   |
| PH118          | 1 1/8               | 1/4 x 1/8   |
| PH114          | 1 1/4               | 1/4 x 1/16  |
| PH138          | 1 3/8               | 5/16 x 1/16 |



## Single Groove Pulleys



### Features

- 3L belts may be used with these pulleys.

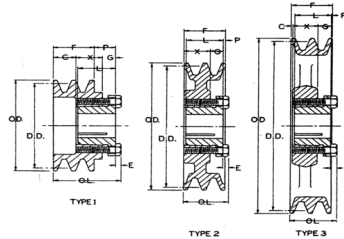
### PAKH Series

### PBKH Series

| Item ID                                         | Diameter (In.) |         |          |      | Dimensions (In.) |     |       |      |   |        |      |      | Replaces Browning |
|-------------------------------------------------|----------------|---------|----------|------|------------------|-----|-------|------|---|--------|------|------|-------------------|
|                                                 | O.D.           | Datum A | Pitch 3L | Type | O.L.             | F   | L     | P    | C | X      | G    | E    |                   |
| Packard Single Groove Pulleys For 4L Or A Belts |                |         |          |      |                  |     |       |      |   |        |      |      |                   |
| PAK30H                                          | 3.05           | 2.8     | 2.46     | 1    | 1 13/16          | 3/4 | 1 1/4 | 7/8  | — | 1 3/16 | 7/16 | 3/16 | AK30H             |
| PAK39H                                          | 3.75           | 3.5     | 3.16     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK39H             |
| PAK41H                                          | 3.95           | 3.7     | 3.36     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK41H             |
| PAK44H                                          | 4.25           | 4       | 3.66     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK44H             |
| PAK49H                                          | 4.75           | 4.5     | 4.16     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK49H             |
| PAK51H                                          | 4.95           | 4.7     | 4.36     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK51H             |
| PAK54H                                          | 5.25           | 5       | 4.66     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK54H             |
| PAK56H                                          | 5.45           | 5.2     | 4.86     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK56H             |
| PAK59H                                          | 5.75           | 5.5     | 5.16     | 2    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK59H             |
| PAK61H                                          | 5.95           | 5.7     | 5.36     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK61H             |
| PAK64H                                          | 6.25           | 6       | 5.66     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK64H             |
| PAK66H                                          | 6.45           | 6.2     | 5.86     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK66H             |
| PAK71H                                          | 6.95           | 6.7     | 6.36     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK71H             |
| PAK74H                                          | 7.25           | 7       | 6.66     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK74H             |
| PAK79H                                          | 7.75           | 7.5     | 7.16     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK79H             |
| PAK84H                                          | 8.25           | 8       | 7.66     | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK84H             |
| PAK114H                                         | 11.25          | 11      | 10.66    | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK114H            |
| PAK124H                                         | 12.25          | 12      | 11.66    | 3    | 1 1/2            | 3/4 | 1 1/4 | 9/16 | — | 7/8    | 7/16 | 3/16 | AK124H            |

| Item ID                                                           | Diameter (In.) |         |         | Type | Dimensions (In.) |     |       |      |      |        |      |      | Replaces Browning |
|-------------------------------------------------------------------|----------------|---------|---------|------|------------------|-----|-------|------|------|--------|------|------|-------------------|
|                                                                   | O.D.           | Datum A | Datum B |      | O.L.             | F   | L     | P    | C    | X      | G    | E    |                   |
| Packard Single Groove Pulleys For 4L Or A Belts And 5L Or B Belts |                |         |         |      |                  |     |       |      |      |        |      |      |                   |
| PBK30H                                                            | 3.15           | 2.4     | 2.8     | 1    | 1 15/16          | 7/8 | 1 1/4 | 7/8  | —    | 1 5/16 | 7/16 | 3/16 | BK30H             |
| PBK32H                                                            | 3.35           | 2.6     | 3       | 1    | 1 15/16          | 7/8 | 1 1/4 | 7/8  | —    | 1 5/16 | 7/16 | 3/16 | BK32H             |
| PBK34H                                                            | 3.55           | 2.8     | 3.2     | 1    | 1 15/16          | 7/8 | 1 1/4 | 7/16 | —    | 1 5/16 | 7/16 | 3/16 | BK34H             |
| PBK36H                                                            | 3.75           | 3       | 3.4     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK36H             |
| PBK40H                                                            | 3.95           | 3.2     | 3.6     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK40H             |
| PBK45H                                                            | 4.25           | 3.5     | 3.9     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK45H             |
| PBK47H                                                            | 4.45           | 3.7     | 4.1     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK47H             |
| PBK50H                                                            | 4.75           | 4       | 4.4     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK50H             |
| PBK52H                                                            | 4.95           | 4.2     | 4.6     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK52H             |
| PBK55H                                                            | 5.25           | 4.5     | 4.9     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK55H             |
| PBK57H                                                            | 5.45           | 4.7     | 5.1     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK57H             |
| PBK60H                                                            | 5.75           | 5       | 5.4     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK60H             |
| PBK62H                                                            | 5.95           | 5.2     | 5.6     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK62H             |
| PBK65H                                                            | 6.25           | 5.5     | 5.9     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK65H             |
| PBK67H                                                            | 6.45           | 5.7     | 6.1     | 2    | 1 1/2            | 7/8 | 1 1/4 | 7/16 | —    | 7/8    | 7/16 | 3/16 | BK67H             |
| PBK70H                                                            | 6.75           | 6       | 6.4     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK70H             |
| PBK72H                                                            | 6.95           | 6.2     | 6.6     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK72H             |
| PBK75H                                                            | 7.25           | 6.5     | 6.9     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK75H             |
| PBK77H                                                            | 7.45           | 6.7     | 7.1     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK77H             |
| PBK80H                                                            | 7.75           | 7       | 7.4     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK80H             |
| PBK85H                                                            | 8.25           | 7.5     | 7.9     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK85H             |
| PBK90H                                                            | 8.75           | 8       | 8.4     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK90H             |
| PBK100H                                                           | 9.75           | 9       | 9.4     | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK100H            |
| PBK120H                                                           | 11.75          | 11      | 11.4    | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK120H            |
| PBK130H                                                           | 12.75          | 12      | 12.4    | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK130H            |
| PBK140H                                                           | 13.75          | 13      | 13.4    | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK140H            |
| PBK150H                                                           | 14.75          | 14      | 14.4    | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK150H            |
| PBK160H                                                           | 15.75          | 15      | 15.4    | 3    | 1 9/16           | 7/8 | 1 1/4 | 1/2  | 1/16 | 7/8    | 7/16 | 3/16 | BK160H            |

## Two Groove Pulleys For 4L Or A Belts

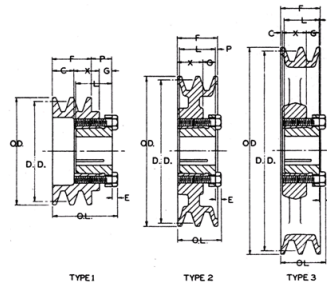
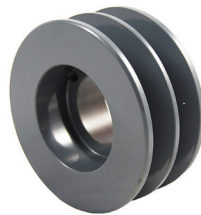


### Features

- 3L belts may be used with these pulleys.

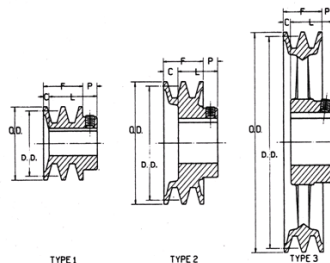
| Item ID | Diameter (In.) |         |          | Type | O.L.   | Dimensions (In.) |       |      |       |     |      |      | Replaces Browning |
|---------|----------------|---------|----------|------|--------|------------------|-------|------|-------|-----|------|------|-------------------|
|         | O.D.           | Datum A | Pitch 3L |      |        | F                | L     | P    | C     | X   | G    | E    |                   |
| Packard |                |         |          |      |        |                  |       |      |       |     |      |      |                   |
| P2AK30H | 3.05           | 2.8     | 2.46     | 1    | 2 7/16 | 1 3/8            | 1 1/4 | 7/8  | 15/16 | 7/8 | 7/16 | 3/16 | 2AK30H            |
| P2AK39H | 3.75           | 3.5     | 3.16     | 1    | 2      | 1 3/8            | 1 1/4 | 7/8  | 1/2   | 7/8 | 7/16 | 3/16 | 2AK39H            |
| P2AK46H | 4.45           | 4.2     | 3.86     | 2    | 1 1/2  | 1 3/8            | 1 1/4 | 1/16 | —     | 7/8 | 7/16 | 3/16 | 2AK46H            |
| P2AK54H | 5.25           | 5.0     | 4.66     | 2    | 1 1/2  | 1 3/8            | 1 1/4 | 1/16 | —     | 7/8 | 7/16 | 3/16 | 2AK54H            |
| P2AK56H | 5.45           | 5.2     | 4.86     | 2    | 1 1/2  | 1 3/8            | 1 1/4 | 1/16 | —     | 7/8 | 7/16 | 3/16 | 2AK56H            |

## Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts



| Item ID  | O.D. | Diameter (In.) |         | Type | O.L.    | F     | L     | Dimensions (In.) |      |     |      | Replaces Browning |         |
|----------|------|----------------|---------|------|---------|-------|-------|------------------|------|-----|------|-------------------|---------|
|          |      | Datum A        | Datum B |      |         |       |       | P                | C    | X   | G    |                   | E       |
| Packard  |      |                |         |      |         |       |       |                  |      |     |      |                   |         |
| P2BK32H  | 3.35 | 2.6            | 3       | 1    | 2 13/16 | 1 3/4 | 1 1/4 | 7/8              | 5/16 | 7/8 | 7/16 | 3/16              | 2BK32H  |
| P2BK80H  | 7.75 | 7.0            | 7.4     | 3    | 1 3/4   | 1 3/4 | 1 1/4 | 7/16             | 7/8  | 7/8 | 7/16 | 3/16              | 2BK80H  |
| P2BK100H | 9.75 | 9.0            | 9.4     | 3    | 1 3/4   | 1 3/4 | 1 1/4 | 7/16             | 7/8  | 7/8 | 7/16 | 3/16              | 2BK100H |

## Two Groove Pulleys For 4L Or A Belts And 5L Or B Belts

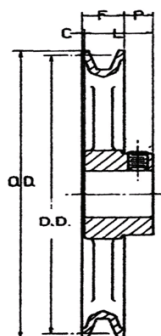


### Features

- PACKARD DRIVE “P2BK” sheaves are accurately machined from grained cast iron, statically balanced, painted and individually packaged. They are furnished with standard keyway and hollow head set screws.

| Item ID   | O.D. | Diameter (In.) |         | Type | Stock Bore (In.) | F     | Dimensions (In.) |       |     | Replaces Browning |
|-----------|------|----------------|---------|------|------------------|-------|------------------|-------|-----|-------------------|
|           |      | Datum A        | Datum B |      |                  |       | L                | P     | C   |                   |
| Packard   |      |                |         |      |                  |       |                  |       |     |                   |
| P2BK2558  | 2.6  | 2              | 2.4     | 1    | 5/8              | 1 3/4 | 1 31/32          | 15/32 | 1/4 | 2BK2558           |
| P2BK3058  | 3.15 | 2.4            | 2.8     | 1    | 5/8              | 1 3/4 | 1 31/32          | 15/32 | 1/4 | 2BK3058           |
| P2BK34118 | 3.55 | 2.8            | 3.2     | 1    | 1 1/8            | 1 3/4 | 1 31/32          | 15/32 | 1/4 | 2BK34118          |
| P2BK3658  | 3.75 | 3              | 3.4     | 1    | 5/8              | 1 3/4 | 1 31/32          | 15/32 | 1/4 | 2BK3658           |
| P2BK4058  | 3.95 | 3.2            | 3.6     | 2    | 5/8              | 1 3/4 | 1 15/32          | 15/32 | 3/4 | 2BK4058           |
| P2BK4558  | 4.25 | 3.5            | 3.9     | 2    | 5/8              | 1 3/4 | 1 15/32          | 15/32 | 3/4 | 2BK4558           |
| P2BK5058  | 4.75 | 4              | 4.4     | 2    | 5/8              | 1 3/4 | 1 15/32          | 15/32 | 3/4 | 2BK5058           |
| P2BK5558  | 5.25 | 4.5            | 4.9     | 2    | 5/8              | 1 3/4 | 1 15/32          | 15/32 | 3/4 | 2BK5558           |

## PAL Pulleys For 4L Or A Belts

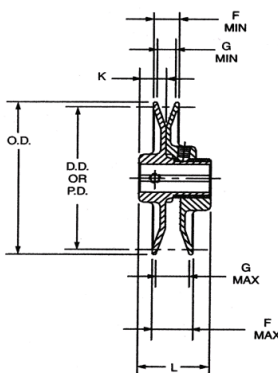


| Bore Range (In.) | Keyway (In.) |
|------------------|--------------|
| 1/2              | None         |
| 5/8 - 7/8        | 3/16 x 3/32  |
| 1 5/16 - 1 1/4   | 1/4 x 1/8    |
| 1 7/16           | 3/8 x 3/16   |

| Item ID  | Diameter (In.) |       | Stock Bore (In.) | Dimensions (In.) |       |        | Replaces Browning |
|----------|----------------|-------|------------------|------------------|-------|--------|-------------------|
|          | O.D.           | Pitch |                  | F                | P     | L      |                   |
| Packard  |                |       |                  |                  |       |        |                   |
| PAL5434  | 4.93           | 4.78  | 3/4              | 19/32            | 15/32 | 1 1/16 | AL5434            |
| PAL5458  | 4.93           | 4.78  | 5/8              | 19/32            | 15/32 | 1 1/16 | AL5458            |
| PAL6434  | 5.93           | 5.78  | 3/4              | 19/32            | 15/32 | 1 1/16 | AL6434            |
| PAL6458  | 5.93           | 5.78  | 5/8              | 19/32            | 15/32 | 1 1/16 | AL6458            |
| PAL641   | 5.93           | 5.78  | 1                | 19/32            | 15/32 | 1 1/16 | AL641             |
| PAL7434  | 6.93           | 6.78  | 3/4              | 19/32            | 15/32 | 1 1/16 | AL7434            |
| PAL741   | 6.93           | 6.78  | 1                | 19/32            | 15/32 | 1 1/16 | AL741             |
| PAL8434  | 7.93           | 7.78  | 3/4              | 19/32            | 15/32 | 1 1/16 | AL8434            |
| PAL841   | 7.93           | 7.78  | 1                | 19/32            | 15/32 | 1 1/16 | AL841             |
| PAL9434  | 8.93           | 8.78  | 3/4              | 19/32            | 15/32 | 1 1/16 | AL9434            |
| PAL941   | 8.93           | 8.78  | 1                | 19/32            | 15/32 | 1 1/16 | AL941             |
| PAL1041  | 9.93           | 9.78  | 1                | 19/32            | 15/32 | 1 1/16 | AL1041            |
| PAL11434 | 10.93          | 10.78 | 3/4              | 19/32            | 15/32 | 1 1/16 | AL11434           |
| PAL1141  | 10.93          | 10.78 | 1                | 19/32            | 15/32 | 1 1/16 | AL1141            |
| PAL12434 | 11.93          | 11.78 | 3/4              | 19/32            | 15/32 | 1 1/16 | AL12434           |
| PAL1241  | 11.93          | 11.78 | 1                | 19/32            | 15/32 | 1 1/16 | AL1241            |

• Do not use "A" Gripnotch Belt Ratings with "AL" or "AM" sheaves.

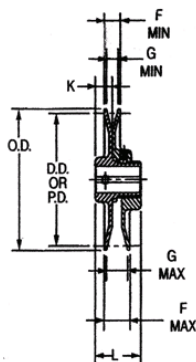
## PVL Variable Pitch Pulleys



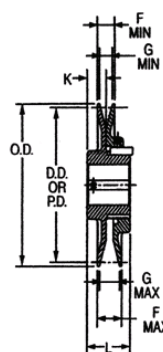
| Bore Range (In.) | Keyway (In.) |
|------------------|--------------|
| 1/2              | None         |
| 5/8 - 7/8        | 3/16 x 3/32  |
| 1 5/16 - 1 1/4   | 1/4 x 1/8    |
| 1 7/16           | 3/8 x 3/16   |

| Item ID | 3L Belts   |            |                 |            |                 | 4L or A Belts |                 |            |                 |                 | 5L or B Belts |            |                 |     |             | Stock Bore (In.) | Replaces Browning |
|---------|------------|------------|-----------------|------------|-----------------|---------------|-----------------|------------|-----------------|-----------------|---------------|------------|-----------------|-----|-------------|------------------|-------------------|
|         | O.D. (In.) | Min. Pitch | Min. Turns Open | Max. Pitch | Max. Turns Open | Min. Datum    | Min. Turns Open | Max. Datum | Max. Turns Open | Min. Turns Open | Min. Datum    | Max. Datum | Max. Turns Open |     |             |                  |                   |
| Packard |            |            |                 |            |                 |               |                 |            |                 |                 |               |            |                 |     |             |                  |                   |
| PVL2512 | 2.5        | 1.6        | 4               | 2.4        | 0               | —             | —               | —          | —               | —               | —             | —          | —               | 1/2 | 1VL25 X 1/2 |                  |                   |
| PVL2558 | 2.5        | 1.6        | 4               | 2.4        | 0               | —             | —               | —          | —               | —               | —             | —          | —               | 5/8 | 1VL25 X 5/8 |                  |                   |
| PVL3012 | 2.87       | 1.8        | 4               | 2.7        | 0               | —             | —               | —          | —               | —               | —             | —          | —               | 1/2 | 1VL30 X 1/2 |                  |                   |
| PVL3058 | 2.87       | 1.8        | 4               | 2.7        | 0               | —             | —               | —          | —               | —               | —             | —          | —               | 5/8 | 1VL30 X 5/8 |                  |                   |
| PVL3412 | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 5               | 2.4           | 3.2        | 1               | 1/2 | 1VL34 X 1/2 |                  |                   |
| PVL3434 | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 5               | 2.4           | 3.2        | 1               | 3/4 | 1VL34 X 3/4 |                  |                   |
| PVL3458 | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 5               | 2.4           | 3.2        | 1               | 5/8 | 1VL34 X 5/8 |                  |                   |
| PVL4012 | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 6               | 2.7           | 4.1        | 1               | 1/2 | 1VL40 X 1/2 |                  |                   |
| PVL4034 | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 6               | 2.7           | 4.1        | 1               | 3/4 | 1VL40 X 3/4 |                  |                   |
| PVL4058 | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 6               | 2.7           | 4.1        | 1               | 5/8 | 1VL40 X 5/8 |                  |                   |
| PVL4078 | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 6               | 2.7           | 4.1        | 1               | 7/8 | 1VL40 X 7/8 |                  |                   |
| PVL4412 | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 6               | 3.1           | 4.1        | 1               | 1/2 | 1VL44 X 1/2 |                  |                   |
| PVL4434 | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 6               | 3.1           | 4.1        | 1               | 3/4 | 1VL44 X 3/4 |                  |                   |
| PVL4458 | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 6               | 3.1           | 4.1        | 1               | 5/8 | 1VL44 X 5/8 |                  |                   |
| PVL4478 | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 6               | 3.1           | 4.1        | 1               | 7/8 | 1VL44 X 7/8 |                  |                   |

## Stock PVP Variable Pitch Single Groove Pulleys



Type 1



Type 2

### Features

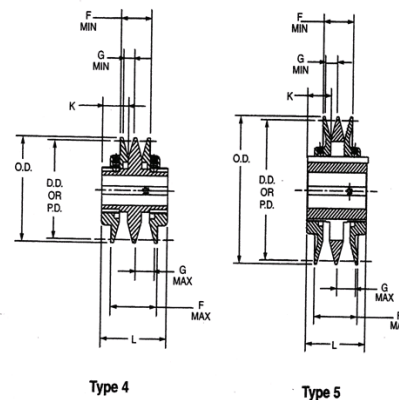
- Fitted with hollow head set screws.
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

| Item ID  | Type | 3L Belts   |            |                 |            |                 | 4L or A Belts |                 |            |                 |            | 5L or B Belts   |            |                 |            |                 | 5V Belts   |                 |       |               |  | Stock Bore (In.) | Replaces Browning |
|----------|------|------------|------------|-----------------|------------|-----------------|---------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|-------|---------------|--|------------------|-------------------|
|          |      | O.D. (In.) | Min. Pitch | Min. Turns Open | Max. Pitch | Max. Turns Open | Min. Datum    | Min. Turns Open | Max. Datum | Max. Turns Open | Min. Datum | Min. Turns Open | Max. Datum | Max. Turns Open | Min. Pitch | Min. Turns Open | Max. Pitch | Max. Turns Open |       |               |  |                  |                   |
| Packard  |      |            |            |                 |            |                 |               |                 |            |                 |            |                 |            |                 |            |                 |            |                 |       |               |  |                  |                   |
| PVP3012  | 1    | 2.87       | 1.8        | 4               | 2.7        | 0               | —             | —               | —          | —               | —          | —               | —          | —               | —          | —               | —          | —               | 1/2   | 1VP30 X 1/2   |  |                  |                   |
| PVP3412  | 1    | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 2.4        | 5               | 3.2        | 1               | —          | —               | —          | —               | 1/2   | 1VP34 X 1/2   |  |                  |                   |
| PVP3458  | 1    | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 2.4        | 5               | 3.2        | 1               | —          | —               | —          | —               | 5/8   | 1VP34 X 5/8   |  |                  |                   |
| PVP3478  | 1    | 3.15       | 1.7        | 4               | 2.5        | 0               | 1.9           | 5               | 2.9        | 0               | 2.4        | 5               | 3.2        | 1               | —          | —               | —          | —               | 7/8   | 1VP34 X 7/8   |  |                  |                   |
| PVP4012  | 1    | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 2.7        | 6               | 3.7        | 1               | —          | —               | —          | —               | 1/2   | 1VP40 X 1/2   |  |                  |                   |
| PVP4034  | 1    | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 2.7        | 6               | 3.7        | 1               | —          | —               | —          | —               | 3/4   | 1VP40 X 3/4   |  |                  |                   |
| PVP4058  | 1    | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 2.7        | 6               | 3.7        | 1               | —          | —               | —          | —               | 5/8   | 1VP40 X 5/8   |  |                  |                   |
| PVP4078  | 1    | 3.75       | 2.3        | 4               | 3.1        | 0               | 2.4           | 5               | 3.4        | 0               | 2.7        | 6               | 3.7        | 1               | —          | —               | —          | —               | 7/8   | 1VP40 X 7/8   |  |                  |                   |
| PVP4412  | 1    | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 3.1        | 6               | 4.1        | 1               | —          | —               | —          | —               | 1/2   | 1VP44 X 1/2   |  |                  |                   |
| PVP4458  | 1    | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 3.1        | 6               | 4.1        | 1               | —          | —               | —          | —               | 5/8   | 1VP44 X 5/8   |  |                  |                   |
| PVP4478  | 2    | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 3.1        | 6               | 4.1        | 1               | —          | —               | —          | —               | 7/8   | 1VP44 X 7/8   |  |                  |                   |
| PVP44118 | 2    | 4.15       | 2.7        | 4               | 3.5        | 0               | 2.8           | 5               | 3.8        | 0               | 3.1        | 6               | 4.1        | 1               | —          | —               | —          | —               | 1 1/8 | 1VP44 X 1 1/8 |  |                  |                   |
| PVP5012  | 1    | 4.75       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7        | 6               | 4.7        | 1               | —          | —               | —          | —               | 1/2   | 1VP50 X 1/2   |  |                  |                   |
| PVP5058  | 1    | 4.75       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7        | 6               | 4.7        | 1               | —          | —               | —          | —               | 5/8   | 1VP50 X 5/8   |  |                  |                   |
| PVP5078  | 2    | 4.75       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7        | 6               | 4.7        | 1               | —          | —               | —          | —               | 7/8   | 1VP50 X 7/8   |  |                  |                   |
| PVP50118 | 2    | 4.75       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7        | 6               | 4.7        | 1               | —          | —               | —          | —               | 1 1/8 | 1VP50 X 1 1/8 |  |                  |                   |
| PVP5658  | 1    | 5.35       | 3.9        | 4               | 4.7        | 0               | 4             | 5               | 5.0        | 0               | 4.3        | 6               | 5.3        | 1               | —          | —               | —          | —               | 5/8   | 1VP56 X 5/8   |  |                  |                   |
| PVP5678  | 2    | 5.35       | 3.9        | 4               | 4.7        | 0               | 4             | 5               | 5.0        | 0               | 4.3        | 6               | 5.3        | 1               | —          | —               | —          | —               | 7/8   | 1VP56 X 7/8   |  |                  |                   |
| PVP56118 | 2    | 5.35       | 3.9        | 4               | 4.7        | 0               | 4             | 5               | 5.0        | 0               | 4.3        | 6               | 5.3        | 1               | —          | —               | —          | —               | 1 1/8 | 1VP56 X 1 1/8 |  |                  |                   |
| PVP6078  | 2    | 6.00       | —          | —               | —          | —               | 4.2           | 5               | 5.2        | 0               | 4.3        | 6               | 5.5        | 0               | —          | —               | —          | —               | 7/8   | 1VP60 X 7/8   |  |                  |                   |
| PVP60118 | 2    | 6.00       | —          | —               | —          | —               | 4.2           | 5               | 5.2        | 0               | 4.3        | 6               | 5.5        | 0               | —          | —               | —          | —               | 1 1/8 | 1VP60 X 1 1/8 |  |                  |                   |
| PVP60138 | 2    | 6.00       | —          | —               | —          | —               | 4.2           | 5               | 5.2        | 0               | 4.3        | 6               | 5.5        | 0               | —          | —               | —          | —               | 1 3/8 | 1VP60 X 1 3/8 |  |                  |                   |
| PVP65118 | 2    | 6.5        | —          | —               | —          | —               | 4.7           | 5               | 5.7        | 0               | 4.8        | 6               | 6.0        | 0               | 5.2        | 6               | 6.4        | 0               | 1 1/8 | 1VP65 X 1 1/8 |  |                  |                   |
| PVP68118 | 2    | 6.55       | 5.1        | 4               | 5.9        | 0               | 5.2           | 5               | 6.2        | 0               | 5.5        | 6               | 6.5        | 1               | 5.9        | 6               | 6.9        | 1               | 1 1/8 | 1VP68 X 1 3/8 |  |                  |                   |
| PVP75138 | 2    | 7.5        | —          | —               | —          | —               | 5.7           | 5               | 6.7        | 0               | 5.8        | 6               | 7.0        | 0               | 6.2        | 6               | 7.4        | 0               | 1 3/8 | 1VP75 X 1 3/8 |  |                  |                   |



## Stock P2VP Variable Pitch Double Groove Pulleys

| Item ID        | Type | Diameter (In.)<br>O.D. | Stock Bore<br>(In.) | Replaces<br>Browning |
|----------------|------|------------------------|---------------------|----------------------|
| <b>Packard</b> |      |                        |                     |                      |
| P2VP3658       | 4    | 3.35                   | 5/8                 | 2VP36 X 5/8          |
| P2VP3678       | 4    | 3.35                   | 7/8                 | 2VP36 X 7/8          |
| P2VP4258       | 4    | 3.95                   | 5/8                 | 2VP42 X 5/8          |
| P2VP4278       | 4    | 3.95                   | 7/8                 | 2VP42 X 7/8          |
| P2VP42118      | 4    | 3.95                   | 1 1/8               | 2VP42 X 1 1/8        |
| P2VP5058       | 5    | 4.75                   | 5/8                 | 2VP50 X 5/8          |
| P2VP5078       | 5    | 4.75                   | 7/8                 | 2VP50 X 7/8          |
| P2VP50118      | 5    | 4.75                   | 1 1/8               | 2VP50 X 1 1/8        |
| P2VP5678       | 5    | 5.35                   | 7/8                 | 2VP56 X 7/8          |
| P2VP56118      | 5    | 5.35                   | 1 1/8               | 2VP56 X 1 1/8        |
| P2VP60118      | 5    | 6                      | 1 1/8               | 2VP60 X 1 1/8        |
| P2VP60138      | 5    | 6                      | 1 3/8               | 2VP60 X 1 3/8        |
| P2VP62118      | 5    | 6                      | 1 1/8               | 2VP62 X 1 1/8        |
| P2VP65118      | 5    | 5.95                   | 1 1/8               | 2VP65 X 1 1/8        |
| P2VP68118      | 5    | 6.50                   | 1 1/8               | 2VP68 X 1 1/8        |



### Features

- Fitted with hollow head set screws
- Any standard double groove Packard Drive sheave can be used as a companion sheave.

| Item ID        | 3L Belts   |                 |            |                 | 4L or A Belts |                 |            |                 | 5L or B Belts |                 |            |                 | 5V Belts   |                 |            |                 |
|----------------|------------|-----------------|------------|-----------------|---------------|-----------------|------------|-----------------|---------------|-----------------|------------|-----------------|------------|-----------------|------------|-----------------|
|                | Min. Pitch | Min. Turns Open | Max. Pitch | Max. Turns Open | Min. Datum    | Min. Turns Open | Max. Datum | Max. Turns Open | Min. Datum    | Min. Turns Open | Max. Datum | Max. Turns Open | Min. Pitch | Min. Turns Open | Max. Pitch | Max. Turns Open |
| <b>Packard</b> |            |                 |            |                 |               |                 |            |                 |               |                 |            |                 |            |                 |            |                 |
| P2VP3658       | 1.9        | 4               | 2.7        | 0               | 2             | 5               | 3          | 0               | 2.5           | 5               | 3.3        | 1               | —          | —               | —          | —               |
| P2VP3678       | 1.9        | 4               | 2.7        | 0               | 2             | 5               | 3          | 0               | 2.5           | 5               | 3.3        | 1               | —          | —               | —          | —               |
| P2VP4258       | 2.5        | 4               | 3.3        | 0               | 2.6           | 5               | 3.6        | 0               | 2.9           | 6               | 3.9        | 1               | —          | —               | —          | —               |
| P2VP4278       | 2.5        | 4               | 3.3        | 0               | 2.6           | 5               | 3.6        | 0               | 2.9           | 6               | 3.9        | 1               | —          | —               | —          | —               |
| P2VP42118      | 2.5        | 4               | 3.3        | 0               | 2.6           | 5               | 3.6        | 0               | 2.9           | 6               | 3.9        | 1               | —          | —               | —          | —               |
| P2VP5058       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7           | 6               | 4.7        | 1               | —          | —               | —          | —               |
| P2VP5078       | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7           | 6               | 4.7        | 1               | —          | —               | —          | —               |
| P2VP50118      | 3.3        | 4               | 4.1        | 0               | 3.4           | 5               | 4.4        | 0               | 3.7           | 6               | 4.7        | 1               | —          | —               | —          | —               |
| P2VP5678       | 3.9        | 4               | 4.7        | 0               | 4             | 5               | 5          | 0               | 4.3           | 6               | 5.3        | 1               | —          | —               | —          | —               |
| P2VP56118      | 3.9        | 4               | 4.7        | 0               | 4             | 5               | 5          | 0               | 4.3           | 6               | 5.3        | 1               | —          | —               | —          | —               |
| P2VP60118      | —          | —               | —          | —               | 4.2           | 5               | 5.2        | 0               | 4.3           | 6               | 5.5        | 0               | —          | —               | —          | —               |
| P2VP60138      | —          | —               | —          | —               | 4.2           | 5               | 5.2        | 0               | 4.3           | 6               | 5.5        | 0               | —          | —               | —          | —               |
| P2VP62118      | 4.5        | 4               | 5.3        | 0               | 4.6           | 5               | 5.6        | 0               | 4.9           | 6               | 5.9        | 1               | 5.3        | 6               | 6.3        | 1               |
| P2VP65118      | —          | —               | —          | —               | 4.7           | 5               | 5.7        | 0               | 4.8           | 6               | 6          | 0               | 5.2        | 6               | 6.4        | 0               |
| P2VP68118      | 5.1        | 4               | 5.9        | 0               | 5.2           | 5               | 6.2        | 0               | 5.5           | 6               | 6.5        | 1               | 5.9        | 6               | 6.9        | 1               |

## Motor Pump Seals



Head Type - A



Head Type - B



Head Type - C



Head Type - D



Mating Ring - 1

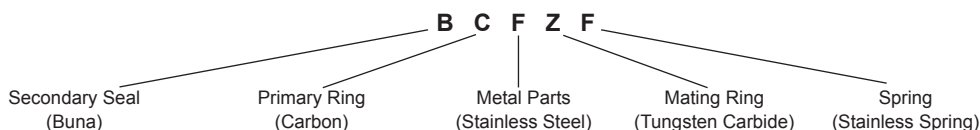


Mating Ring - 3

| SECONDARY SEALS | PRIMARY RINGS            | METAL PARTS        | MATING RINGS        | SPRINGS            |
|-----------------|--------------------------|--------------------|---------------------|--------------------|
| B. Buna         | A. Bronze                | D. Brass           | A. Bronze           | E. Monel®          |
| N. Neoprene     | C. Carbon                | E. Monel®          | G. Cast Iron        | F. Stainless Steel |
| Q. EPR          | H. Glass Filled PTFE     | F. Stainless Steel | J. Ceramic          | P. Plated Steel    |
| T. PTFE         | L. Silicon Carbide       | P. Plated Steel    | K. Ni-Resist        |                    |
| V. Viton®       | M. Molded Plastic        |                    | L. Silicon Carbide  |                    |
| X. AFLAS®       | R. Silicon Carbide (CVR) |                    | O. Stellite         |                    |
| Y. Kalrez®      | S. Tool Steel            |                    | S. Tool Steel       |                    |
|                 | Z. Tungsten Carbide      |                    | Z. Tungsten Carbide |                    |

### Features

- Self aligning
- Completely assembled for easy installation
- Exceptionally broad application range
- Wide temperature range
- Low, medium or high pressure applications
- Available for standard or limited gland depths
- Automatic compensation for mating ring wear and shaft end play



AFLAS® is a registered trademark of Asahi Glass Co., Ltd.  
 Kalrez® is a registered trademark of DuPont Performance Elastomers, LLC  
 Viton® is a registered trademark of DuPont Performance Elastomers, LLC  
 Monel® is a registered trademark of Special Metals Corporation

### Material Code

| Item ID               | Seal Size | Head Type | Mating Ring | Material Code |
|-----------------------|-----------|-----------|-------------|---------------|
| <b>U.S. Seal MFG.</b> |           |           |             |               |
| PS101                 | 3/4       | A         | 1           | BMFJF         |
| PS201                 | 3/4       | A         | 1           | BMFJF         |
| PS201VCMS             | 3/4       | A         | 1           | VCFJF         |
| PS358V                | 3/4       | C         | 3           | VCFJF         |
| PS100                 | 5/8       | A         | 1           | BMFJF         |
| PS200                 | 5/8       | A         | 1           | BMFJF         |
| PS100VCMS             | 5/8       | A         | 1           | VCFJF         |
| PS200VCMS             | 5/8       | A         | 1           | VCFJF         |
| PS2131                | 5/8       | A         | 3           | BMFJF         |
| PS1000                | 5/8       | B         | 1           | BMFJF         |
| PS359                 | 5/8       | C         | 1           | BCFJF         |
| PS290                 | 5/8       | C         | 1           | BCFJF         |
| PS359VCMS             | 5/8       | C         | 1           | VCFJF         |
| PS359V                | 5/8       | C         | 3           | VCFJF         |
| PS508                 | 5/8       | D         | 1           | BCDJF         |
| PS508V                | 5/8       | D         | 3           | VCDJF         |
| PS357                 | 1         | C         | 1           | BCFKF         |
| PS235V                | 1         | C         | 3           | VCFJF         |
| PS356                 | 1 1/8     | C         | 1           | BCFJF         |
| PS356V                | 1 1/8     | C         | 3           | VCFJF         |
| PS355V                | 1 1/8     | C         | 3           | VCFKF         |
| PS185                 | 1 1/4     | C         | 1           | BCFJF         |
| PS979                 | 1 1/4     | C         | 1           | BCFKF         |
| PS978V                | 1 1/4     | C         | 1           | VCFJF         |
| PS185VCMS             | 1 1/4     | C         | 1           | VCFJF         |
| PS1109                | 1 1/4     | C         | 3           | BCFKF         |
| PS758                 | 1 1/2     | C         | 1           | BCFJF         |
| PS659V                | 1 1/2     | C         | 3           | VCFKF         |



**Conduit Box with Adjustable Bracket**

| Item ID | Frame                               |
|---------|-------------------------------------|
| TACBB1  | May be used on 48 & 42 Frame Motors |



**Flex Mount Brackets**

| Item ID | Diameter (In.) |
|---------|----------------|
| TFM50   | 5              |
| TFM55   | 5 5/8          |



**Four Leg Torsion Flex Mount Bracket**

| Item ID | Diameter (In.) |
|---------|----------------|
| TFM554  | 5 5/8          |



**Flex Mount Bracket Adjustable Diameter**

| Item ID | Diameter (In.) |
|---------|----------------|
| TFM556  | 5 - 5 5/8      |

Plastic insert allows you to adjust for 5" or 5.5" diameter.



**Mounting Brackets**

| Item ID | Diameter (In.) | Frame |
|---------|----------------|-------|
| A60042  | 5              | 42    |
| A60048  | 5 5/8          | 48    |

Kit includes: steel bracket with 3 welded legs, 3 steel sleeves, & 3 sets of rubber grommets.



**Mounting Brackets**

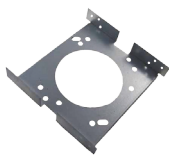
| Item ID | Diameter (In.) | Bolt Circle    |
|---------|----------------|----------------|
| A80293  | 5.5            | 6 7/8 - 8 1/8  |
| A80295  | 5.5            | 8 1/8 - 12 1/8 |
| KIT50L  | 4.4 & 5        | 6 1/2 - 11 1/2 |
| KIT55L  | 5.5            | 8 1/8 - 12 1/8 |



**Universal Lug Mounting Bracket**

| Item ID | Diameter (In.) |
|---------|----------------|
| 1410A   | 5 5/8          |

Two mounting options. Small slots accepts 1/4" bolt. Large hole accepts 3/4" Rubber Grommet Kit (A60049K).



**RHEEM Motor Mounting Bracket**

| Item ID | Brand   |
|---------|---------|
| A60306K | Packard |

Used on RHEEM condensing units.



**RHEEM FLEX Mounting Bracket**

| Item ID | Brand   |
|---------|---------|
| A61698K | Packard |

Kit includes 4 brackets and 8 screws.



**Mounting Kit**

| Item ID | Brand |
|---------|-------|
| KIT200  | Fasco |

Holes for 4.4" and 5.6" diameter motors. One kit will adapt both ends of motor for base mounting.



**Condenser Fan Rainshield**

| Item ID | Dimensions (In.) | Bore Dia. | O.D. |
|---------|------------------|-----------|------|
| A61000  | 1/2              | 6.88      |      |
| A61056  | 5/8              | 6.88      |      |



**Condenser Fan Rainshield Deep Dish Style**

| Item ID | Dimensions (In.) | Bore Dia. | O.D. |
|---------|------------------|-----------|------|
| A80105  | 1/2              | 7         |      |



**Rainshields - Plastic Deep Dish Style**

| Item ID | Dimensions (In.) | Bore Dia. | O.D. |
|---------|------------------|-----------|------|
| 1411A   | 1/2              | 7         |      |
| 1412A   | 5/8              | 7         |      |



**Shaft Adapters**

| Item ID   | Dimensions (In.) | I.D. | O.D. | Length |
|-----------|------------------|------|------|--------|
| A80427K   | 1/4              | 5/16 | 1.00 |        |
| A80513K   | 5/16             | 3/8  | 1.06 |        |
| A80082K   | 3/8              | 1/2  | 1.06 |        |
| A60097K * | 1/2              | 5/8  | 1.50 |        |

5 per package.  
\* Split bushing with key.



**Shaft Extension Kits**

| Item ID | Diameter | Length |
|---------|----------|--------|
| A61308K | 1/4"     | 4 1/2" |
| A61310K | 5/16"    | 4 1/2" |
| A61475K | 1/2"     | 4 1/2" |

Includes shaft coupler & shaft.



**Shaft Adapter**

| Item ID | I.D. (in.) | Length (In.) |
|---------|------------|--------------|
| A60098  | 1/4        | 1            |

Used on unit bearing motors.



**Rubber Grommet Kit**

| Item ID | Brand   |
|---------|---------|
| A60049K | Packard |

Used for 3/4 inch slots. Sheet metal screws and sleeves included. 3 per package.



**Rubber Grommet Kit**

| Item ID | Brand   |
|---------|---------|
| A60047K | Packard |

Used for 1/2 inch slots.  
6 per package.



**Mounting Rings**

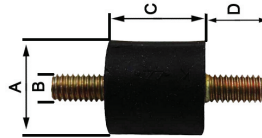
| Item ID | Hub Ring Diameter (in.) |
|---------|-------------------------|
| 1220A   | 2 1/4                   |
| 1182A   | 2 1/2                   |
| 1255A   | 1 3/4                   |



## Rubber Vibration Insulator

| Item ID | Stud Dimensions (In.) |
|---------|-----------------------|
| A61519K | 3/8 x 8-32 x 3/8      |

Used on Coleman motors. Four per package.



## Rubber Vibration Insulators

|         |   | Dimension (In.) |     |     |   |
|---------|---|-----------------|-----|-----|---|
| Item ID |   | A               | B   | C   | D |
| A67804K | 1 | 5/16            | 1   | 5/8 |   |
| A67805K | 1 | 1/4             | 3/4 | 1/2 |   |

4 per package.



## Rheem Mounting Cables

| Item ID | Length (In.) | For Motor H.P. |
|---------|--------------|----------------|
| A60325K | 3 1/4        | 1/6            |
| A60350K | 3 1/2        | 1/4            |
| A60378K | 3 7/8        | 1/3            |



## Conduit Box

| Item ID | Motor Diameter (In.) |
|---------|----------------------|
| KIT142  | 3.3                  |
| KIT144  | 4.4-5.0-5.6          |

For universal design motors with conduit connector holes only.



## Conduit Kit

| Item ID | Brand   |
|---------|---------|
| A60102  | Packard |

3/8" Conduit Connector  
Allen Stevens type, complete with mounting screws. Packaged three per kit.



## Conduit Fitting

| Item ID | Brand   |
|---------|---------|
| 1202A   | Century |

For 4 5/16" diameter motors



## Anti-Wind Brakes

| Item ID | Diameter (In.) |
|---------|----------------|
| A60012  | 1/2            |
| A60058  | 5/8            |

Used to stop wind milling of rooftop motors.



## Unit Bearing Motor Bracket

| Item ID | Brand   |
|---------|---------|
| A68004  | Packard |

Bracket for unit bearing motors.



## Sand Screen

| Item ID | Brand   |
|---------|---------|
| A52008  | Packard |

Used in preparation for brazing, soldering and epoxy repairs 1 1/2" x 72" roll



## 90 Degree Plug And Cord

| Item ID | Length (In.) |
|---------|--------------|
| PLUG018 | 25           |

Used with unit bearing motors: plug and cord assembly  
UL Recognized



## Straight Plug And Cord

| Item ID | Length (In.) |
|---------|--------------|
| PLUG119 | 25           |

Used with unit bearing motors: plug and cord assembly  
UL Recognized



## Capacitor Mounting Kit

| Item ID | Brand   |
|---------|---------|
| A60010  | Packard |

Bracket dimension: 2 1/8" x 1 1/4" Cover dimension: 1 5/8"



## Cap Guard

| Item ID | Brand   |
|---------|---------|
| A60000  | Packard |

Weather proofs capacitor connections by simply sliding on to the capacitor. Fits oval caps 2 thru 17.5MFD 370V and 2 thru 12.5MFD 440V. Sheet metal screws included.



## Pitch Gauge

| Item ID   | Brand   |
|-----------|---------|
| PG5099801 | Packard |



## Fan Blade & Blower Wheel Puller

| Item ID | Brand   |
|---------|---------|
| A89000  | Packard |



## Hubs With Set & Mtg Screws

| Item ID   | Bore | Set Screws |
|-----------|------|------------|
| H60765801 | 1/4" | 1          |
| H60765803 | 3/8" | 1          |
| H60765804 | 1/2" | 2          |
| H60765805 | 5/8" | 2          |
| H60765806 | 3/4" | 2          |



## Shafts

1018 Cold Rolled Steel  
Ground and Polished

| Item ID   | Diameter (In.) | Length (In.) |
|-----------|----------------|--------------|
| S38220501 | 5/8            | 20           |
| S38209601 | 3/4            | 20           |
| S38269301 | 3/4            | 35           |
| S38209501 | 1              | 25           |
| S38249201 | 1              | 35           |



## Capacitor Brackets

| Item ID | Capacitor Length (In.) |
|---------|------------------------|
| A76501  | 4 3/8                  |
| A76502  | 3 3/8                  |
| A76503  | 2 3/4                  |

For motor start capacitors.  
5 per package.



## Capacitor Brackets

| Item ID | Diameter (In.) |
|---------|----------------|
| A75400  | 1 3/4          |
| A75500  | 2              |
| A75600  | 2 1/2          |

For round motor run capacitors  
5 per package.



## Capacitor Brackets

| Item ID | Dimensions (In.)<br>Width x Depth |
|---------|-----------------------------------|
| A75100  | 1 5/16 x 2 5/32                   |
| A75200  | 1 29/32 x 2 29/32                 |
| A75300  | 1 31/32 x 3 21/32                 |

For oval motor run capacitors.  
5 per package.





Capacitor End Caps - Top Lead Hole

| Item ID | Diameter (In.) |
|---------|----------------|
| A76611  | 1 7/16         |
| A76612  | 1 13/16        |
| A76613  | 2 1/16         |
| A76614  | 2 9/16         |

For motor start capacitors. Leads exit opposite bracket. 5 per package.



Capacitor End Caps - Bottom Lead Hole

| Item ID | Diameter (In.) |
|---------|----------------|
| A76601  | 1 7/16         |
| A76602  | 1 13/16        |
| A76603  | 2 1/16         |
| A76604  | 2 9/16         |

For motor start capacitors. Leads exit through bracket. 5 per package.



Capacitor Jumpers

| Item ID | Length (In.) |
|---------|--------------|
| A63004  | 4            |
| A63006  | 6            |

With 1/4" female terminals. 10 per package.



Capacitor Resistor  
With 1/4" Female Terminals

| Item ID | OHMS  | Watts |
|---------|-------|-------|
| A63106  | 15000 | 2     |

With 1/4" Female Terminals. 10 per package.



Capacitor Resistor

| Item ID | OHMS  | Watts |
|---------|-------|-------|
| A63105  | 15000 | 2     |

10 per package.



Rubber Boots

(Lead Protectors For Motor Run Capacitors)

| Item ID | Hole Location  |
|---------|----------------|
| A76000  | 1 Hole on End  |
| A76001  | 1 Hole on Top  |
| A76002  | 2 Hole on Top  |
| A76003  | 3 Hole on Side |

5 per package.



Item ID Description

|     |                          |
|-----|--------------------------|
| CT1 | Digital Capacitor Tester |
|-----|--------------------------|

- Range 2 MFD to 2000 MFD
- Accuracy ±5%
- Color coded test leads
- Insulated rubber casing
- 9 Volt battery included
- Fuse protected



Heat Gun

| Item ID | Brand   |
|---------|---------|
| HG1000  | Packard |

- 120 Volt AC • 12 Amps • 4 tips included
- Double insulated • UL listed
- Low setting 750 Watts
- High setting 1500 Watts



Hex Bit

| Item ID | Length (In.) |
|---------|--------------|
| PHB316  | 3/16         |



Ratchet Wrenches

| Item ID | Square Size (In.) |
|---------|-------------------|
| PRW516  | 1/4-3/8-3-16-5/16 |

Reversible. 4 sizes per wrench.



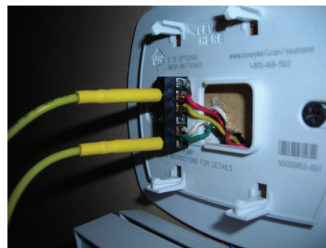
Fin Comb

| Item ID | Brand   |
|---------|---------|
| PFC550  | Packard |

## Magjumper - The Magnetic Jumper

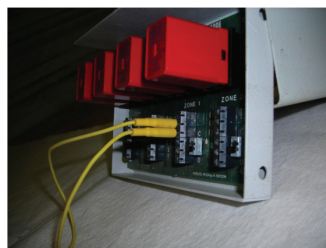


Scan to  
learn more



### Features

- Ideal for low voltage trouble shooting
- Designed by and for service technicians
- No more popping off terminals
- Great for recessed terminals



| Item ID | Description                          |
|---------|--------------------------------------|
| Evolve  |                                      |
| EJMP    | Magjumper Mag 1 - Yellow Tip (Shown) |
| EJMPB   | Magjumper Mag 1 - Blue Tip           |
| EJMPG   | Magjumper Mag 1 - Green Tip          |
| EJMPP   | Magjumper Mag 1 - Red Tip            |
| EJMPK   | Magjumper Mag 1 - Black Tip          |

## Terms and Conditions

1. Prices are those in effect at time of shipment. Prices are subject to change without notice.
2. Minimum order requirement is \$25.00.
3. All shipments are F.O.B. shipping point.
4. On single release orders of \$2000.00 or more, Packard ships prepaid to the first destination within the continental U.S. Method of shipment is at the discretion of Packard. Orders less than \$2000.00 will be shipped freight prepaid with the freight charge added to the invoice. If the customer specifies the carrier on a charge freight order, the order will be shipped freight collect.
5. Air shipment or other premium shipping method may be specified at the customer's expense.
6. Claims for shortages must be reported within five business days following the date of delivery. Shortages must also be noted on the freight bill.
7. Damages must be reported immediately and the customer must note on the bill of lading, shipment damaged and/or subject to count/inspection. Damaged product is to be kept for 30 days after claim is reported.
8. Terms: net 30 to all customers having approved credit standing.
9. Items cannot be returned without return authorization.
10. All items returned will receive a 20% restocking charge. Customer pays return freight. All returns must be within 30 days from date of shipment and be new, in original packaging clean and unmarked.
11. Possession of this catalog does not constitute an offer to sell.

## Warranty Procedures

1. All items sold by Packard, Inc. are warranted against defects in workmanship or materials under normal use for a period of one year.
2. Motors are covered for two (2) years from the manufacturer's date code on the motor or one year after installation, whichever comes first. Please return the original nameplate (label or sticker (copies of the label will not be accepted)). The nameplate can be mailed to us for proper credit however, nameplates cannot be received by fax or email for credit. \* \* THIS ALSO APPLIES TO ALL CAPACITORS, TRANSFORMERS, BLOWER WHEELS, FAN BLADES, CONTACTORS, ETC. FOR THESE ITEMS, JUST MAIL IN THE NAME PLATE, THANK YOU.
3. Authorization must be obtained from Packard, Inc. by the purchaser before returning any merchandise. Returned merchandise will not be accepted without an authorization number.
4. For Danfoss, Embraco or Bristol products, please contact Packard, Inc. Warranty Department for further instructions.
5. For each product on your warranty request, please provide a brief description of the reason for the warranty claim.
6. Credits are NOT to be taken by customer until merchandise or original nameplate has been received by Packard, Inc. and credit is issued.
7. Credit will be issued within two weeks after receipt.

# CREDIT APPLICATION FORM

Customer Number:



## Credit Application Business Account

Packard, Inc.  
1925 Shiloh Rd Bldg 2  
Kennesaw, GA 30144  
Phone: 770.427.5765  
Fax: 770.427.5140  
customerservice@packardonline.com

### BUSINESS CONTACT INFORMATION

|                                               |                                       |                                                  |                                 |
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| Contact Name:                                 |                                       | Title:                                           |                                 |
| Company Name:                                 |                                       | Buying Group:                                    |                                 |
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| City:                                         | State:                                | Zip Code:                                        |                                 |
| Mailing Address:(If Different)                |                                       |                                                  |                                 |
| City:                                         | State:                                | Zip Code:                                        |                                 |
| Shipping Address:(If Different)               |                                       |                                                  |                                 |
| City:                                         | State:                                | Zip Code:                                        |                                 |
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| Purchasing Agent:                             |                                       | Email Address:                                   |                                 |
| Payables Contact:                             |                                       | Email Address:                                   |                                 |
| Sales Tax Exemption Number:                   |                                       | <i>(Please attach a copy of the Certificate)</i> |                                 |

### BANK INFORMATION

|                          |                         |
|--------------------------|-------------------------|
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| Phone:                   | Email:                  |
| Fax:                     | Savings Account Number: |
| Checking Account Number: |                         |

### BUSINESS/TRADE REFERENCES

|                  |        |           |
|------------------|--------|-----------|
| Company Name:    |        |           |
| Address:         |        |           |
| City:            | State: | Zip Code: |
| Phone:           | Fax:   | E-mail:   |
| Type of Account: |        |           |
| Company Name:    |        |           |
| Address:         |        |           |
| City:            | State: | Zip Code: |
| Phone:           | Fax:   | E-mail:   |
| Type of Account: |        |           |
| Company Name:    |        |           |
| Address:         |        |           |
| City:            | State: | Zip Code: |
| Phone:           | Fax:   | E-mail:   |
| Type of Account: |        |           |

### AGREEMENT

SHOULD YOU APPROVE THIS APPLICATION, I (WE) AGREE TO PAY FOR ALL GOODS PURCHASED WITHIN THE GIVEN NET 30 DAY TERMS ON EACH INVOICE. PACKARD INC. IS AUTHORIZED TO CONTACT ANY REFERENCES OR BANKS LISTED ABOVE. IT IS UNDERSTOOD THAT ANY INFORMATION SO OBTAINED WILL BE USED SOLELY FOR GRANTING CREDIT. SERVICE CHARGES AT THE HIGHEST RATE PERMITTED BY STATE LAW WILL BE APPLIED TO PAST DUE ACCOUNTS.

### SIGNATURES

|        |        |
|--------|--------|
| Title: | Title: |
| Date:  | Date:  |

*\*Please email application and attachments to customerservice@packardonline.com.*



# COOL RUNNINGS

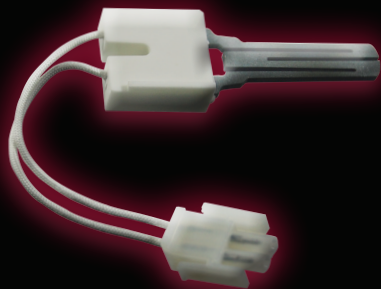
WITH AN UNRIVALED  
BREADTH AND RANGE OF  
MOTORS, COMPRESSORS AND  
COMPONENTS, PACKARD  
PROVIDES COMPLETE  
COMMERCIAL REFRIGERATION  
SOLUTIONS FOR ANY  
REPLACEMENT NEED.



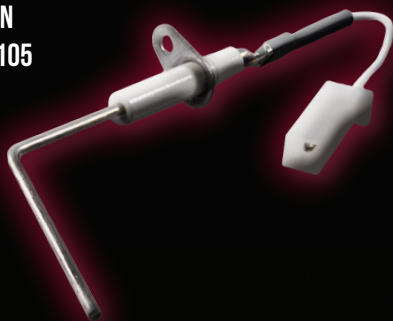
REFRIGERATION MOTORS: P. 29, REFRIGERATION COMPRESSORS: P. 68, TITAN HD™ & TITAN PRO™  
CAPACITORS : P. 90, CUSH-A-CLAMP: P. 84, TITAN MAX™ CONTACTOR: 95, PACKARD C-FRAME MOTOR: P. 39



# AFTER 54 YEARS IN HVAC, WE KNOW HOW TO **light the spark,**



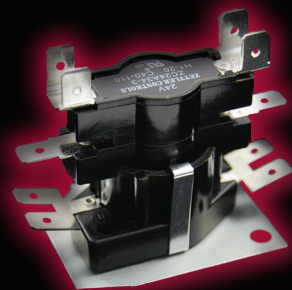
PACKARD OEM DIRECT  
REPLACEMENT SILICON  
CARBIDE IGNITERS P. 105



PACKARD HIGH TEMPERATURE  
FLAME SENSORS P. 107



PACKARD CLASS II FOOT  
MOUNT TRANSFORMERS P. 98



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P. 100

## AND KEEP THE **flame** alive.



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