

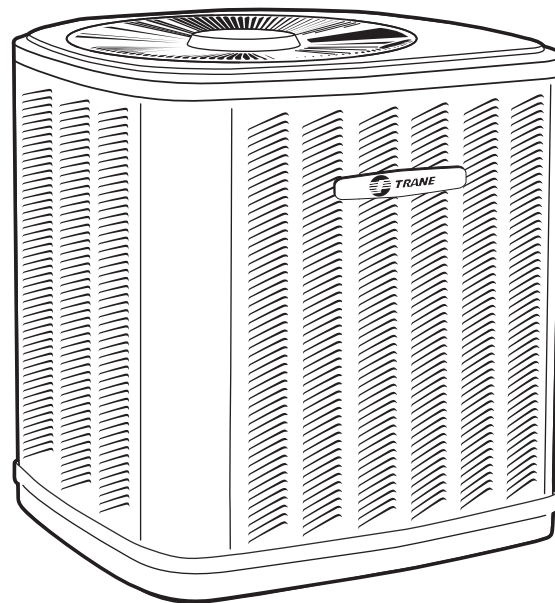


# Split System Heat Pump Product & Performance Data

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**Three Phase**  
**4TWA3030-060A3/4**

**2½ – 5 Tons**



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**PUB. NO. 22-1792-02**



## Features and Benefits

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- **Climatuff®** compressor
- All aluminum **Spine Fin™** coil
- **WeatherGuard™** fasteners
- **Quick-Sess™** cabinet, service access and refrigerant connections with full coil protection
- **DuraTuff™** base, fast complete drain, weatherproof
- **Comfort "R"™** mode approved
- Glossy corrosion resistant finish
- Internal compressor high/low pressure and temperature protection
- Liquid line filter-drier
- Polyslate gray cabinet with anthracite gray badge and cap
- Low pressure switch
- High pressure switch
- Compressor Sump Heat
- Demand Defrost Control with Diagnostics
- R-410A refrigerant
- **5 year limited warranty on compressor, coil and internal functional parts (Residential Use Only)**
- **5 year limited warranty on compressor, coil and 1 year on parts (Commercial Use Only)**
- **Extended warranties available**
- S.E.E.T. design testing
- 100% line run test
- Low ambient cooling to 55°F as shipped
- Low ambient cooling to 30°F with EDC accessory AY28X084
- Low ambient cooling to 0°F with BAYLOAM103

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# General Data

## Product Specifications

| Model No. ①                     | 4TWA3030A3     | 4TWA3030A4     | 4TWA3036A3          | 4TWA3036A4          |
|---------------------------------|----------------|----------------|---------------------|---------------------|
| Electrical Data V/Ph/Hz ②       | 200/230/3/60   | 460/3/60       | 200/230/3/60        | 460/3/60            |
| Min Cir Ampacity                | 11             | 5              | 16                  | 7                   |
| Max Fuse Size (Amps)            | 15             | 15             | 25                  | 15                  |
| Compressor                      | CLIMATUFF®     | CLIMATUFF®     | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL |
| RL Amps - LR Amps               | 7.9 - 54.9     | 3.9 - 28.0     | 11.5 - 77           | 5.1 - 35            |
| Outdoor Fan FL Amps             | 0.7            | 0.4            | 1.3                 | 0.6                 |
| Fan HP                          | 1/8            | 1/8            | 1/4                 | 1/5                 |
| Fan Dia (inches)                | 23.0           | 23.0           | 27.6                | 27.6                |
| Coil                            | Spine Fin™     | Spine Fin™     | Spine Fin™          | Spine Fin™          |
| Refrigerant R-410A              | 6/01-LB/OZ     | 6/01-LB/OZ     | 7/15-LB/OZ          | 7/15-LB/OZ          |
| Line Size - (in.) O.D. Gas ③    | 3/4            | 3/4            | 3/4                 | 3/4                 |
| Line Size - (in.) O.D. Liquid ③ | 5/16           | 5/16           | 3/8                 | 3/8                 |
| Charge Spec. Subcooling         | 11°            | 11°            | 10°                 | 10°                 |
| Dimensions H x W x D (Crated)   | 42 x 30.1 x 33 | 42 x 30.1 x 33 | 42.4 x 35.1 x 38.7  | 42.4 x 35.1 x 38.7  |
| Weight - Shipping               | 233            | 231            | 264                 | 263                 |
| Weight - Net                    | 204            | 202            | 229                 | 228                 |
| Start Components                | NO             | NO             | NO                  | NO                  |
| Sound Enclosure                 | NO             | NO             | NO                  | NO                  |
| Compressor Sump Heat            | YES            | YES            | YES                 | YES                 |
| <b>Optional Accessories: ④</b>  |                |                |                     |                     |
| Anti-short Cycle Timer          | TAYASCT501A    | TAYASCT501A    | TAYASCT501A         | TAYASCT501A         |
| Evaporator Defrost Control      | AY28X084       | AY28X084       | AY28X084            | AY28X084            |
| Rubber Isolator Kit             | BAYISLT101     | BAYISLT101     | BAYISLT101          | BAYISLT101          |
| Snow Leg - Base & Cap 4" High   | BAYLEGS002     | BAYLEGS002     | BAYLEGS002          | BAYLEGS002          |
| Snow Leg - 4" Extension         | BAYLEGS003     | BAYLEGS003     | BAYLEGS003          | BAYLEGS003          |
| Indoor Fan Delay Kit            | BAY24X045      | BAY24X045      | BAY24X045           | BAY24X045           |
| Sound Enclosure                 | BAYSDEN001     | BAYSDEN001     | BAYSDEN003          | BAYSDEN003          |
| Extreme Condition Mounting Kit  | BAYECMT023     | BAYECMT023     | BAYECMT004          | BAYECMT004          |
| Seacoast Kit                    | BAYSEAC001     | BAYSEAC001     | BAYSEAC001          | BAYSEAC001          |
| Low Ambient Kit                 | BAYLOAM103     | BAYLOAM103     | BAYLOAM103          | BAYLOAM103          |
| Refrigerant Lineset ⑤           | TAYREFLN2*     | TAYREFLN2*     | TAYREFLN7*          | TAYREFLN7*          |

① Certified in accordance with the Air-Source Unitary Heat Pump equipment certification program which is based on ARI Standard 210/240.

② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

③ Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line.  
For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-01. (\*denotes latest revision)

④ For accessory description and usage, see page 5.

⑤ \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

## A-weighted Sound Power Level [dB(A)]

| MODEL        | SOUND POWER<br>LEVEL [dB(A)] | A-WEIGHTED FULL OCTAVE SOUND POWER LEVEL dB - [dB(A)] |      |      |      |      |      |      |      |
|--------------|------------------------------|---|------|------|------|------|------|------|------|
|              |                              | 63  | 125  | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 4TWA3030A3/4 | 80                           | 46.6  | 58.2 | 65.9 | 69.2 | 73.5 | 73.1 | 62.3 | 56.5 |
| 4TWA3036A3/4 | 79                           | 46.4  | 59.6 | 67.4 | 74.8 | 73.8 | 68.9 | 61.2 | 53.4 |
| 4TWA3042A3/4 | 80                           | 47.6  | 58.3 | 67.3 | 74.9 | 74.9 | 70.4 | 62.3 | 53.0 |
| 4TWA3048A3/4 | 78                           | 47.0  | 56.5 | 66.7 | 73.0 | 72.8 | 69.3 | 62.0 | 51.4 |
| 4TWA3060A3/4 | 78                           | 45.3  | 55.1 | 66.6 | 73.0 | 73.5 | 69.7 | 63.1 | 53.9 |

Note: Tested in accordance with ARI Standard 270.95. (Not listed with ARI)

# General Data

## Product Specifications

| Model No. ①                     | 4TWA3042A3          | 4TWA3042A4          | 4TWA3048A3          | 4TWA3048A4          |
|---------------------------------|---------------------|---------------------|---------------------|---------------------|
| Electrical Data V/Ph/Hz ②       | 200/230/3/60        | 460/3/60            | 200/230/3/60        | 460/3/60            |
| Min Cir Ampacity                | 18                  | 9                   | 21                  | 9                   |
| Max Fuse Size (Amps)            | 30                  | 15                  | 35                  | 15                  |
| Compressor                      | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL |
| RL Amps - LR Amps               | 13.5 - 88           | 6.4 - 39            | 16.0 - 91           | 7.1 - 46            |
| Outdoor Fan FL Amps             | 1.3                 | 0.6                 | 1.3                 | 0.6                 |
| Fan HP                          | 1/4                 | 1/5                 | 1/4                 | 1/5                 |
| Fan Dia (inches)                | 27.6                | 27.6                | 27.6                | 27.6                |
| Coil                            | Spine Fin™          | Spine Fin™          | Spine Fin™          | Spine Fin™          |
| Refrigerant R-410A              | 8/03-LB/OZ          | 8/03-LB/OZ          | 8/10-LB/OZ          | 8/10-LB/OZ          |
| Line Size - (in.) O.D. Gas ③    | 3/4                 | 3/4                 | 7/8                 | 7/8                 |
| Line Size - (in.) O.D. Liquid ③ | 3/8                 | 3/8                 | 3/8                 | 3/8                 |
| Charge Spec. Subcooling         | 10°                 | 10°                 | 10°                 | 10°                 |
| Dimensions H x W x D (Crated)   | 42.4 x 35.1 x 38.7  | 42.4 x 35.1 x 38.7  | 46.4 x 35.1 x 38.7  | 46.4 x 35.1 x 38.7  |
| Weight - Shipping               | 269                 | 268                 | 277                 | 276                 |
| Weight - Net                    | 234                 | 233                 | 241                 | 240                 |
| Start Components                | NO                  | NO                  | NO                  | NO                  |
| Sound Enclosure                 | NO                  | NO                  | NO                  | NO                  |
| Compressor Sump Heat            | YES                 | YES                 | YES                 | YES                 |
| <b>Optional Accessories: ④</b>  |                     |                     |                     |                     |
| Anti-short Cycle Timer          | TAYASCT501A         | TAYASCT501A         | TAYASCT501A         | TAYASCT501A         |
| Evaporator Defrost Control      | AY28X084            | AY28X084            | AY28X084            | AY28X084            |
| Rubber Isolator Kit             | BAYISLT101          | BAYISLT101          | BAYISLT101          | BAYISLT101          |
| Snow Leg - Base & Cap 4" High   | BAYLEGS002          | BAYLEGS002          | BAYLEGS002          | BAYLEGS002          |
| Snow Leg - 4" Extension         | BAYLEGS003          | BAYLEGS003          | BAYLEGS003          | BAYLEGS003          |
| Indoor Fan Delay Kit            | BAY24X045           | BAY24X045           | BAY24X045           | BAY24X045           |
| Sound Enclosure                 | BAYSDEN003          | BAYSDEN003          | BAYSDEN003          | BAYSDEN003          |
| Extreme Condition Mounting Kit  | BAYECMT004          | BAYECMT004          | BAYECMT004          | BAYECMT004          |
| Seacoast Kit                    | BAYSEAC001          | BAYSEAC001          | BAYSEAC001          | BAYSEAC001          |
| Low Ambient Kit                 | BAYLOAM103          | BAYLOAM103          | BAYLOAM103          | BAYLOAM103          |
| Refrigerant Lineset ⑤           | TAYREFLN7*          | TAYREFLN7*          | TAYREFLN3*          | TAYREFLN3*          |

## Accessory Description and Usage

**Anti-Short Cycle Timer** — Solid state timing device that prevents compressor recycling until five (5) minutes have elapsed after satisfying call or power interruptions. Use in area with questionable power delivery, commercial applications, long lineset, etc.

**Evaporator Defrost Control** — SPST Temperature actuated switch that cycles the condenser off as indoor coil reaches freeze-up conditions. Used for low ambient cooling to 30°F with TXV.

**Rubber Isolators** — Five (5) large rubber donuts to isolate condensing unit from transmitting energy into mounting frame or pad. Use on any application where sound transmission needs to be minimized.

**Hard Start kit** — Start capacitor and relay to assist compressor motor startup. Use in areas with marginal power supply, on long linesets, low ambient conditions, etc.

**Extreme Condition Mount Kit** — Bracket kits to securely mount condensing unit to a frame or pad without removing any panels. Use in areas with high winds, or on commercial roof tops, etc.

## ARI Standard Capacity Rating Conditions

### ARI STANDARD 210/240 RATING CONDITIONS —

- (A) Cooling 80°F DB, 67°F WB air entering indoor coil, 95°F DB air entering outdoor coil.
- (B) High Temperature Heating 47°F DB, 43°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- (C) Low Temperature Heating 17°F DB, 15°F WB air entering outdoor coil, 70°F DB air entering indoor coil.
- (D) Rated indoor airflow for heating is the same as for cooling.

**ARI STANDARD 270 RATING CONDITIONS** — (Noise rating numbers are determined with the unit in cooling operation.) Standard Noise Rating number is at 95°F outdoor air.



**ARI Standard  
210/240 UHP**





# General Data

## Product Specifications

| Model No. ①                     | 4TWA3060A3          | 4TWA3060A4          |
|---------------------------------|---------------------|---------------------|
| Electrical Data V/Ph/Hz ②       | 200/230/3/60        | 460/3/60            |
| Min Cir Ampacity                | 24                  | 12                  |
| Max Fuse Size (Amps)            | 40                  | 20                  |
| Compressor                      | CLIMATUFF® - SCROLL | CLIMATUFF® - SCROLL |
| RL Amps - LR Amps               | 18.1 - 137          | 9.0 - 62            |
| Outdoor Fan FL Amps             | 1.3                 | 0.6                 |
| Fan HP                          | 1/4                 | 1/5                 |
| Fan Dia (inches)                | 27.6                | 27.6                |
| Coil                            | Spine Fin™          | Spine Fin™          |
| Refrigerant R-410A              | 9/07-LB/OZ          | 9/07-LB/OZ          |
| Line Size - (in.) O.D. Gas ③    | 7/8                 | 7/8                 |
| Line Size - (in.) O.D. Liquid ③ | 3/8                 | 3/8                 |
| Charge Spec. Subcooling         | 13°                 | 13°                 |
| Dimensions H x W x D (Crated)   | 46.4 x 35.1 x 38.7  | 46.4 x 35.1 x 38.7  |
| Weight - Shipping               | 297                 | 296                 |
| Weight - Net                    | 261                 | 260                 |
| Start Components                | NO                  | NO                  |
| Sound Enclosure                 | NO                  | NO                  |
| Compressor Sump Heat            | YES                 | YES                 |
| <b>Optional Accessories: ④</b>  |                     |                     |
| Anti-short Cycle Timer          | TAYASCT501A         | TAYASCT501A         |
| Evaporator Defrost Control      | AY28X084            | AY28X084            |
| Rubber Isolator Kit             | BAYISLT101          | BAYISLT101          |
| Snow Leg - Base & Cap 4" High   | BAYLEGS002          | BAYLEGS002          |
| Snow Leg - 4" Extension         | BAYLEGS003          | BAYLEGS003          |
| Indoor Fan Delay Kit            | BAY24X045           | BAY24X045           |
| Sound Enclosure                 | BAYSDEN004          | BAYSDEN004          |
| Extreme Condition Mounting Kit  | BAYECMT004          | BAYECMT004          |
| Seacoast Kit                    | BAYSEAC001          | BAYSEAC001          |
| Low Ambient Kit                 | BAYLOAM103          | BAYLOAM103          |
| Refrigerant Lineset ⑤           | TAYREFLN3*          | TAYREFLN3*          |

① Certified in accordance with the Air-Source Unitary Heat Pump equipment certification program which is based on ARI Standard 210/240.

② Calculated in accordance with N.E.C. Only use HACR circuit breakers or fuses.

③ Standard line lengths - 60'. Standard lift - 60' Suction and Liquid line.  
For Greater lengths and lifts refer to refrigerant piping software Pub# 32-3312-01. (\*denotes latest revision)

④ For accessory description and usage, see page 5.

⑤ \* = 15, 20, 25, 30, 40 and 50 foot lineset available.

# Model Nomenclature

## Outdoor Units

**Refrigerant Type**  
2 = R-22  
4 = R-410A

**TRANE**

**Product Type**  
W = Split Heat Pump  
T = Split Cooling

**Product Family**  
Z = Leadership – Two Stage  
X = Leadership  
R = Replacement/Retail  
B = Basic  
A = Light Commercial

**Family SEER**  
0 = 10    3 = 13    6 = 16  
1 = 11    4 = 14    8 = 18  
2 = 12    5 = 15    9 = 19

**Split System Connections 1-6 Tons**  
0 = Braze

**Nominal Capacity in 000s of BTUs**

**Major Design Modifications**

**Power Supply**  
1 = 200-230/1/60 or 208-230/1/60  
3 = 200-230/3/60  
4 = 460/3/60

**Secondary Function**

**Minor Design Modifications**

**Unit Parts Identifier**

4 T W A 3 0 3 6 A 3 0 0 0 A

## High Efficiency Furnaces

**Furnace Configuration**  
TU = Upflow / Horizontal  
TD = Downflow / Horizontal

**Type**  
D = 80% Premium  
X = 90% Premium

**Number of Heating Stages**  
1 = Single Stage  
2 = Two Stage  
3 = Three Stage

**Cabinet Width**  
A = 14.5" Cabinet Width  
B = 17.5" Cabinet Width  
C = 21.0" Cabinet Width  
D = 24.5" Cabinet Width

**Heating Input**  
080 = 80,000 BTUH

**Major Design Change**

**Power Supply / Fuel**  
9 = 115 Volts / Natural Gas  
F = 115 Volts / Natural Gas with Integrated iFD Filter

**Airflow Capacity for Cooling**  
36 = 3 Ton Standard PSC Motor  
H3 = 3 Ton High Efficiency Motor  
V3 = 3 Ton Variable Speed Motor

**Draft Inducer Speeds**  
1 = Single Speed  
2 = Two Speed  
V = Variable Speed

**Minor Design Change**

**Service Digit – Not Orderable**

T U D 1 B 0 8 0 A 9 H 3 1 A A

## Air Handlers – Residential

**Refrigerant Type**  
4 = R-410A  
2 = R-22

**Application**  
TE = Fully Convertible  
TG = Semi Convertible  
TF = Front Return  
TV = Vertical

**Product Family**  
E = Leadership – Variable Speed  
P = Leadership  
C = Replacement/Retail  
B = Basic

**Flow Control**  
3 = Nonbleed TXV  
4 = FCCV\*

**Feature Identifier**  
0 = Standard Unit  
F = Air-Tite™

**Nominal Capacity in 000s of BTUs**

**Major Design Modifications**

**Power Supply**  
1 = Single Phase

**Electrical Connection**  
0 = Pig Tails  
B = Circuit Breaker  
D = Pull Disconnect

**Future Option – Factory Installed Heater Nominal KW Value**

**Minor Design Modifications**

**Unit Parts Identifier**

4 T E E 3 F 3 6 A 1 0 0 0 A

## Heat Pump / Cooling Coils

**Refrigerant Type**  
2 = R-22    4 = R-410A

**Product Family**  
T = Premium (Heat Pump or Convertible Coil)  
C = Standard (Cooling Only)

**Coil Design**  
X = Direct Expansion Evaporator Coil

**Product Family**  
C = Cased A Coil  
A = Uncased A Coil  
F = Cased Horizontal Flat Coil

**Coil Width (Cased / Uncased)**  
A = 14.5" / 13.3"    C = 21.0" / 19.8"    H = 10.5"  
B = 17.5" / 16.3"    D = 24.5" / 23.3"

**Refrigerant Line Coupling**  
0 = Braze

**Nominal Capacity in 000s of BTUs**

**Major Design Change**

**Efficiency**  
C = Standard    S = Hi Efficiency

**Refrigerant Control**  
3 = TXV – Non-Bleed

**Coil Circuitry**  
H = Heat Pump  
C = Cooling Only

**Airflow Configuration**  
A = Upflow Only  
U = Upflow / Downflow  
H = Horizontal Only  
C = Convertible – Upflow, Downflow, Left Airflow  
M = Convertible – Upflow, Downflow, Left or Right Airflow

**Minor Design Change**

**Unit Parts Identifier**

2 T X C B 0 3 6 A C 3 H C A A

NOTE: There will be a phase-in of new model numbers for new air handlers over next 2 years.

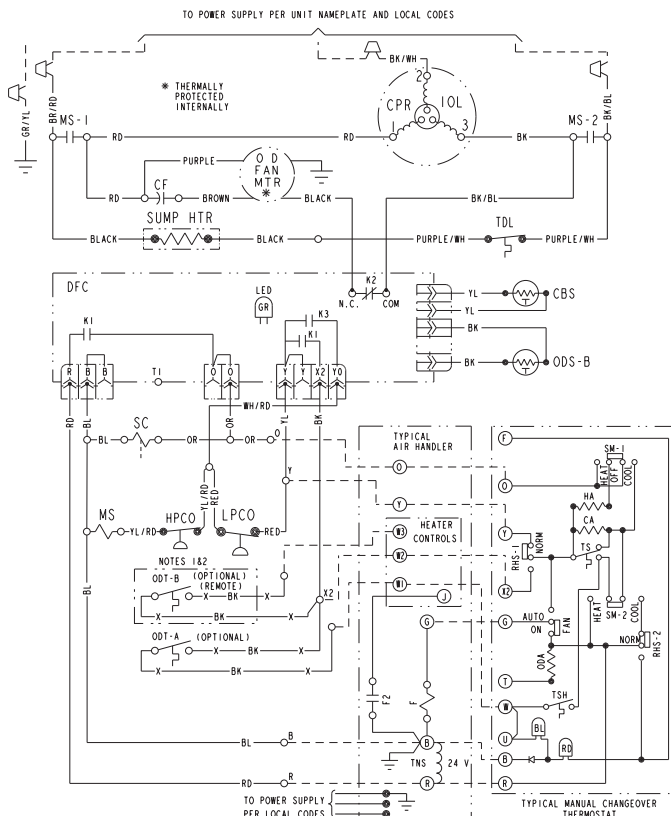
\*Shipped with R-22 FCCV



# Electrical Data

## Schematic Diagrams (SEE LEGEND)

### 4TWA3030A3



#### NOTES:

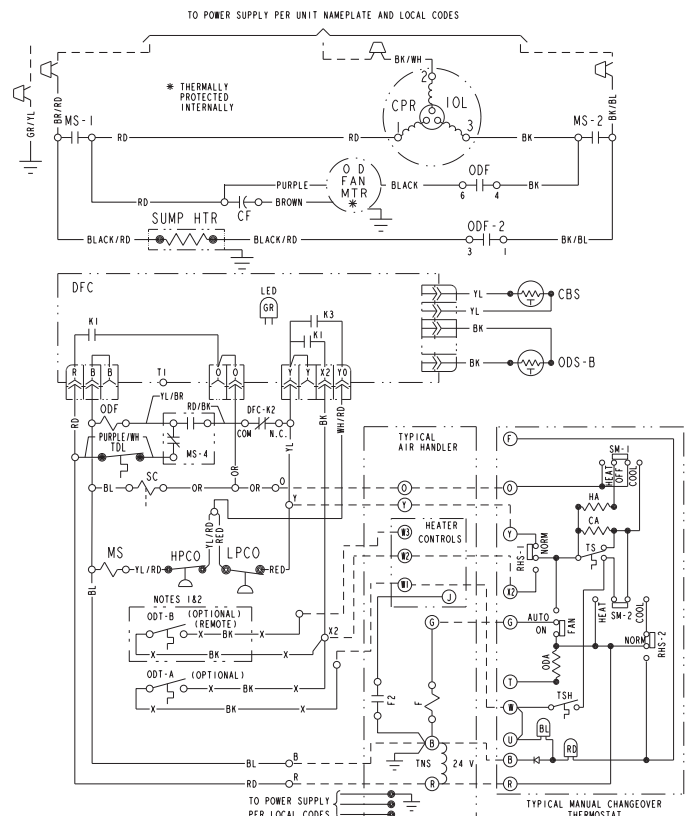
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <b>⚠ WARNING</b><br>HAZARDOUS VOLTAGE!<br>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | <b>⚠ CAUTION</b><br>USE COPPER CONDUCTORS ONLY!<br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT! |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

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### 4TWA3030A4



#### NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <b>⚠ WARNING</b><br>HAZARDOUS VOLTAGE!<br>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | <b>⚠ CAUTION</b><br>USE COPPER CONDUCTORS ONLY!<br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT! |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

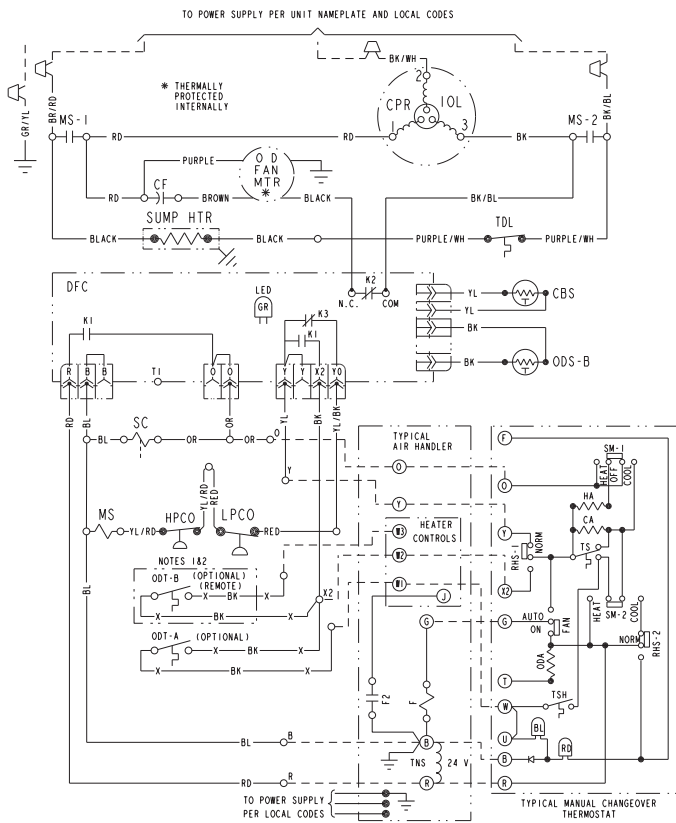
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# Electrical Data

## Schematic Diagrams (SEE LEGEND)

### 4TWA3036,042A3



NOTES:

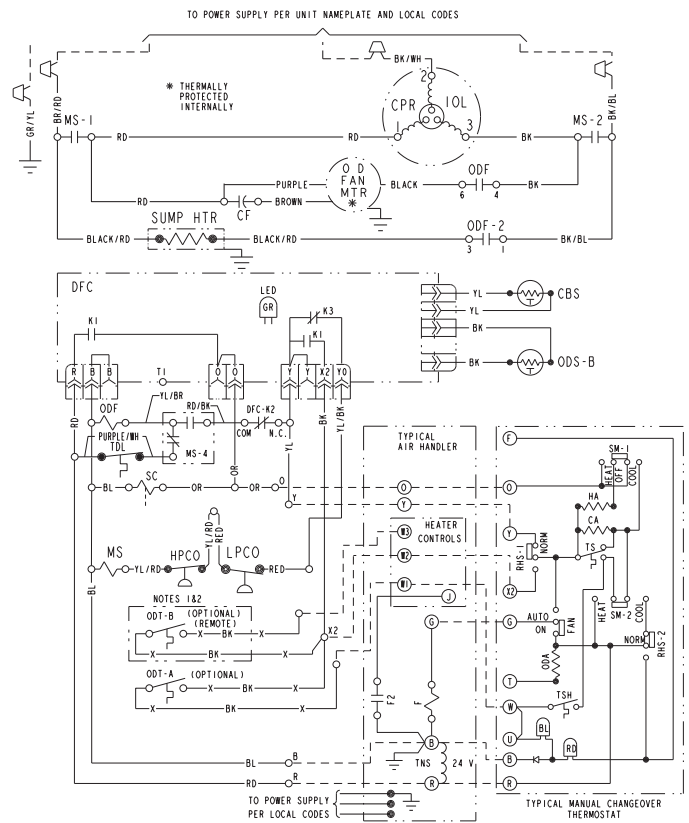
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <p><b>⚠ WARNING</b><br/>HAZARDOUS VOLTAGE!<br/>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br/>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p> | <p><b>⚠ CAUTION</b><br/>USE COPPER CONDUCTORS ONLY!<br/>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br/>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p> |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

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### 4TWA3036,042A4



NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <p><b>⚠ WARNING</b><br/>HAZARDOUS VOLTAGE!<br/>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br/>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH!</p> | <p><b>⚠ CAUTION</b><br/>USE COPPER CONDUCTORS ONLY!<br/>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br/>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT!</p> |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

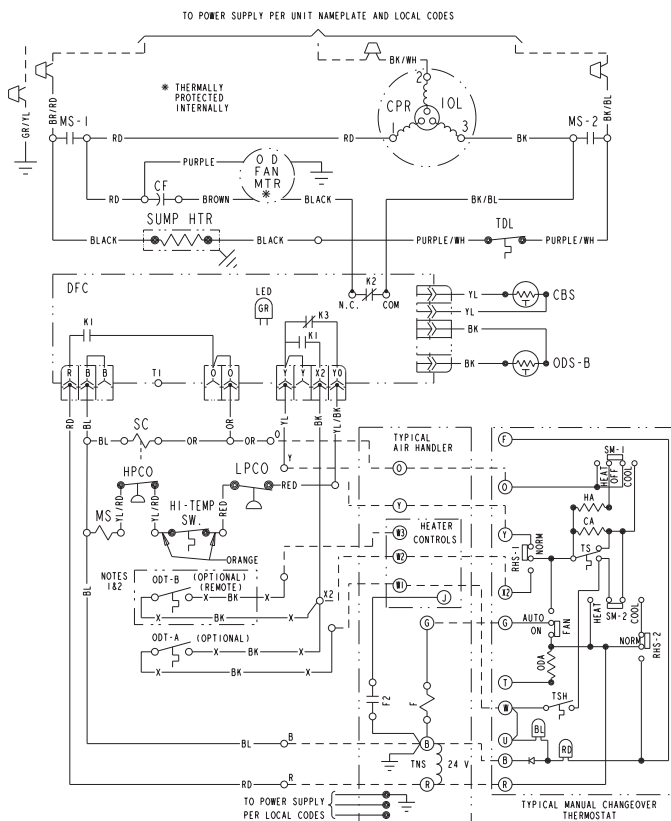
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# Electrical Data

## Schematic Diagrams (SEE LEGEND)

### 4TWA3048,060A3



#### NOTES:

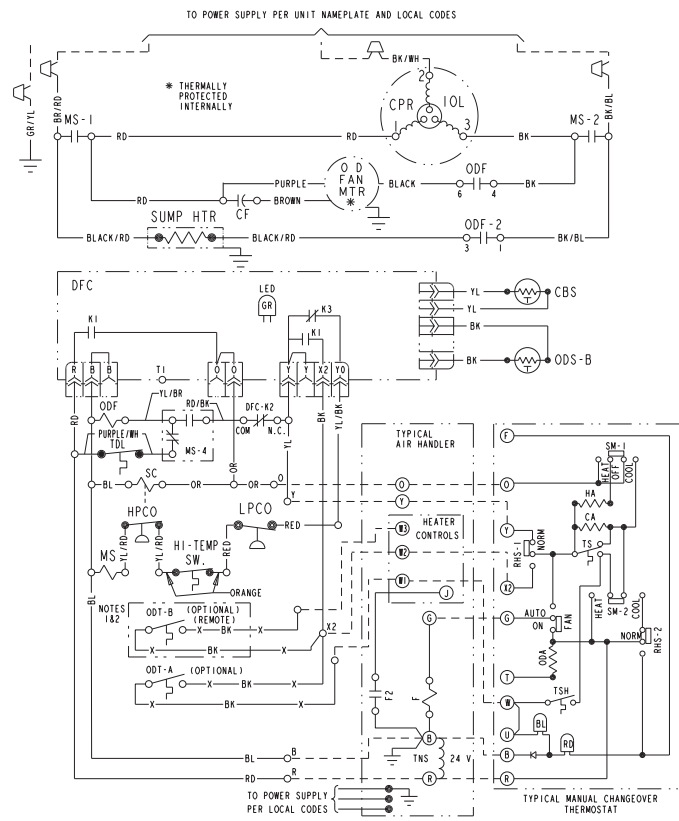
1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <b>⚠ WARNING</b><br>HAZARDOUS VOLTAGE!<br>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | <b>⚠ CAUTION</b><br>USE COPPER CONDUCTORS ONLY!<br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT! |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

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### 4TWA3048,060A4



#### NOTES:

1. IF ODT-B IS NOT USED, ADD JUMPER BETWEEN W2 & W3 AT AIR HANDLER.  
IF USED, ODT-B MUST BE MOUNTED REMOTE OF CONTROL BOX IN AN APPROVED WEATHER PROOF ENCLOSURE.
2. IF ODT-A IS NOT USED, ADD JUMPER BETWEEN W1 & W2 AT AIR HANDLER.
3. LOW VOLTAGE (24 V.) FIELD WIRING MUST BE 18 AWG MIN.

|   |  |
|---|--|
| <b>⚠ WARNING</b><br>HAZARDOUS VOLTAGE!<br>DISCONNECT ALL ELECTRIC POWER INCLUDING REMOTE DISCONNECTS BEFORE SERVICING.<br>FAILURE TO DISCONNECT POWER BEFORE SERVICING CAN CAUSE SEVERE PERSONAL INJURY OR DEATH! | <b>⚠ CAUTION</b><br>USE COPPER CONDUCTORS ONLY!<br>UNIT TERMINALS ARE NOT DESIGNED TO ACCEPT OTHER TYPES OF CONDUCTORS.<br>FAILURE TO DO SO MAY CAUSE DAMAGE TO THE EQUIPMENT! |
|---|--|

**NOTE**  
THREE PHASE MOTOR (S) FACTORY SUPPLIED IN THIS EQUIPMENT PROTECTED UNDER PRIMARY SINGLE-PHASE CONDITIONS.

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# Dimensions

## 4TWA3 Outline Drawing

NOTE: ALL DIMENSIONS ARE IN MM (INCHES)

### Schematic Diagrams

#### LEGEND

COLOR OF WIRE  
BK/BL BLACK WIRE WITH BLUE MARKER  
COLOR OF MARKER  
BK BLACK OR ORANGE YL YELLOW  
BL BLUE RD RED GR GREEN  
BR BROWN WH WHITE PR PURPLE

#### SYMBOLS

— 24 V. } FACTORY WIRING  
— LINE V. }  
- - - 24 V. } FIELD WIRING  
- - - LINE V. }  
⊥ GROUND  
• JUNCTION  
△ WIRE NUT OR CONNECTOR  
~ COIL  
⎓ CAPACITOR  
⎓ RELAY CONTACT (N.O.)  
⎓ RELAY CONTACT (N.C.)  
⊞ THERMISTOR  
⊞ INTERNAL OVERLOAD PROTECTOR  
⊞ PRESSURE ACTUATED SWITCH  
⊞ TEMP. ACTUATED SWITCH  
POL. PLUG FEMALE HOUSING (MALE TERM.)  
POL. PLUG MALE HOUSING (FEMALE TERM.)  
RESISTOR OR HEATING ELEMENT  
MOTOR WINDING  
O TERMINAL

CA COOLING ANTICIPATOR  
CBS COIL BOTTOM SENSOR  
CF FAN CAPACITOR  
CN WIRE CONNECTOR  
CPR COMPRESSOR  
CR RUN CAPACITOR  
CS STARTING CAPACITOR  
CSR CAPACITOR SWITCHING RELAY  
DFC DEFROST CONTROL  
F INDOOR FAN RELAY  
HA HEATING ANTICIPATOR  
HPCO HIGH PRESSURE CUTOFF SW.  
IOL INTERNAL OVERLOAD PROTECTOR  
LPCO LOW PRESSURE CUTOFF SW.  
MS COMPRESSOR MOTOR CONTACTOR  
ODA OUTDOOR ANTICIPATOR  
ODF OUTDOOR FAN RELAY  
ODT OUTDOOR FAN THERMOSTAT  
ODS OUTDOOR TEMPERATURE SENSOR  
ODT OUTDOOR THERMOSTAT  
RHS RESISTANCE HEAT SWITCH  
SC SWITCHOVER VALVE SOLENOID  
SM SYSTEM "ON-OFF" SWITCH  
TDL DISCHARGE LINE THERMOSTAT  
TNS TRANSFORMER  
TS HEATING-COOLING THERMOSTAT  
TSH HEATING THERMOSTAT

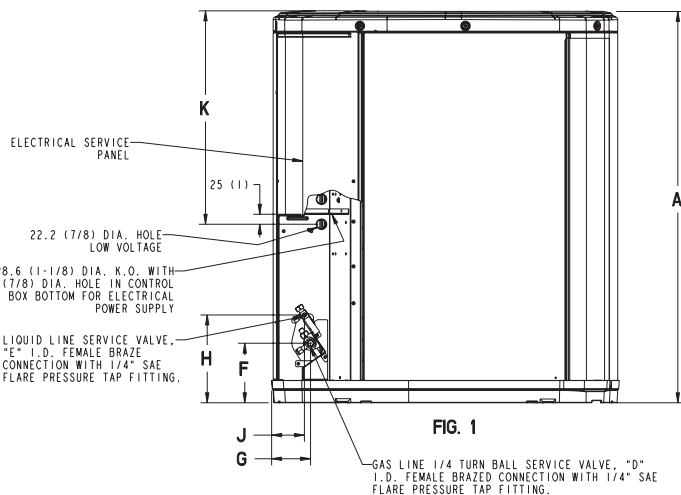
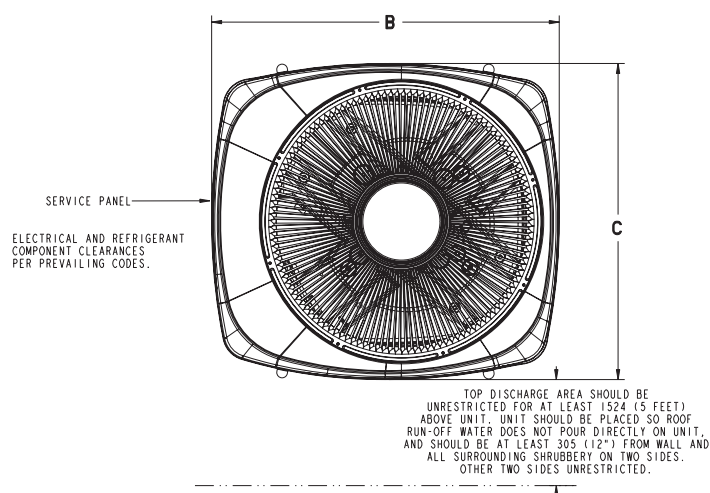


FIG. 1

| MODELS    | BASE | FIG. | A             | B            | C            | D   | E    | F           | G          | H           | J          | K        |
|-----------|------|------|---------------|--------------|--------------|-----|------|-------------|------------|-------------|------------|----------|
| 4TWA3030A | 3    | 1    | 933 (36-3/4)  | 829 (32-5/8) | 756 (29-3/4) | 3/4 | 5/16 | 143 (5-5/8) | 92 (3-5/8) | 210 (8-1/4) | 79 (3-1/8) | 508 (20) |
| 4TWA3036A | 4    | 1    | 943 (37-1/8)  | 946 (37-1/4) | 870 (34-1/4) | 3/4 | 3/8  | 152 (6)     | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TWA3042A | 4    | 1    | 943 (37-1/8)  | 946 (37-1/4) | 870 (34-1/4) | 3/4 | 3/8  | 152 (6)     | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TWA3048A | 4    | 1    | 1045 (41-1/8) | 946 (37-1/4) | 870 (34-1/4) | 7/8 | 3/8  | 152 (6)     | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |
| 4TWA3060A | 4    | 1    | 1045 (41-1/8) | 946 (37-1/4) | 870 (34-1/4) | 7/8 | 3/8  | 152 (6)     | 98 (3-7/8) | 219 (8-5/8) | 86 (3-3/8) | 508 (20) |

From Dwg. 21D153074 Rev. 13



# Mechanical Specification Options

## General

The 4TWA3 shall be fully charged from the factory for matched indoor section and up to 15 feet of piping. This unit must be designed to operate at outdoor ambient temperatures as high as 115°F. Cooling capacities shall be matched with a wide selection of air handlers and furnace coils that are ARI certified. The unit shall be UL listed. Exterior must be designed for outdoor application.

## Casing

Unit casing is constructed of heavy gauge, galvanized steel and painted with a weather-resistant powder paint. Corrosion and weatherproof CMBP-G30 DuraTuff™ base.

## Refrigerant Controls

Refrigeration system controls include condenser fan and compressor contactor. High and low pressure controls are inherent to the compressor. Another standard feature is the liquid line dryer.

## Compressor

The Climatuff® compressor features internal over temperature and pressure protector and total dipped hermetic motor. Other features include: roto lock suction and discharge refrigeration connections, centrifugal oil pump, and low vibration and noise. The Climatuff® compressor is standard with a 5 year limited warranty.

## Condenser Coil

The outdoor coil provides low airflow resistance and efficient heat transfer. The coil is protected on all four sides by louvered panels and has a 5 year limited warranty.

## Low Ambient Cooling

As manufactured, this unit has a cooling capability to 55°F. The addition of an evaporator defrost control permits operation to 30°F. The addition of a low ambient kit permits low ambient cooling to 0°F.

## Accessories

**Thermostats** — Heating/Cooling (manual and automatic changeover). Sub-base to match thermostat and locking thermostat cover.

**Evaporator Defrost Control** — See Low Ambient Cooling.



ARI Standard  
210/240 UHP



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