

# *2013 Stocking Guide*



***TRANE***<sup>®</sup>

*HVAC Parts & Supplies*



**TRANE®**  
HVAC Parts & Supplies

# Portable Cooling Rental Solutions



## Classic Plus 14

Up to 13,200 Btu/hr of cool air. **Handles temperatures up to 113°F** - providing cooling in the hottest environments. Digital temperature control. Operates on standard 115v power.



## Office Pro 12

Provides 12,000 BTU/hr of cool air. **Cooling down to 65°F** - the ideal operating temperature for heat sensitive electronics. Programmable digital controller. Operates on standard 115v power.

## Water-Cooled PWC18



Provides 18,000 BTU of cool air. Space saving, quiet and powerful cooling. **A water cooled unit does not require condenser air ducting.** The rejected heat is transferred by the water leaving the water cooled condenser coil. 40' Hose kits are available for temporary installation or rental applications. Operates on standard 115v power.



## Office Pro 60

**Provides 60,000 BTU of cool air** Maximum spot cooling on single-phase power. Condensate pump included - pumps water to remote drain for uninterrupted operation. 24/7 programmable operating modes. Operates on 220v power.

## 5-Ton Mobile Package Unit



**2000 CFM powerful outdoor package unit.** Perfect for commercial / industrial applications, tents and special events.

- 208-230/1/60 single-phase power
- 60 amp recommended fuse size
- 50' electric cable included - ready for connection
- 16" round supply/return duct adapters (16" temporary duct available for rent)

## Large Solutions



Tampa Bay Trane can service small or large cooling needs starting at 10 tons with temporary rental chillers, portable diesel generators, air handlers, cooling towers and pumps.



## Contact Us

Greg Ortiz - Rental Services Manager - (813) 545-9948

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NU-22B

### Direct Replacement for Refrigerants

22, 407C, 417A, 421A, 422D,  
424A, 427A, 434A, 438A

### Performance Comparison

Same as R-22 in air conditioning Slightly lower than R-22 in refrigeration

### Conversion Considerations

NU-22B is compatible with mineral oil, alkyl benzene and polyol ester. In most cases no change of lubricant is required. Oil return is determined by a number of operating and design conditions. Minor equipment modifications (e.g. seal replacement, TEV adjustment) may be required.

### Applications

- R-22 residential air conditioning and heat pumps
- R-22 and 407C commercial air conditioning and heat pumps
- R-22 medium and high temp refrigeration

ASHRAE Designated R-422B

## Air Conditioning and Heat Pumps

ASHRAE #	Trade Name	Manufacturer	Replaces	Type <sup>(a)</sup> <sup>(b)</sup>	Typical Lubricant <sup>(a)</sup>	Applications	Comments	GWP*
<b>R-407C</b> 32/125/134a (23%/25%/52%)	Genetron® 407C Suva® 407C Forane® 407C	Honeywell DuPont Arkema	R-22 R-500	Blend HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Best retrofit alternative to R-22. Close performance match with slightly higher operating pressures.	1744
<b>R-410A</b> 32/125 (50%/50%)	Genetron® AZ-20® Suva® 410A Forane® 410A Puron®	Honeywell DuPont Arkema	R-22	Azeotropic Mixture HFC	Synthetic (POE, PVE)	New Equipment	High pressure, high efficiency refrigerant designed for new equipment. NOT FOR RETROFITTING.	2088
<b>R-422D</b> 125/134a/600a	Genetron® 422D Isceon MO 29	Honeywell DuPont	R-22	Blend	Mineral Oil POE	New Equipment Retrofits (Unitary Equipment close coupled systems)	Lower capacity Use of POE will enhance oil return, if required.	2729
<b>R-134a</b>	Genetron® 134a Suva® 134a Forane® 134a Klea® 134a	Honeywell DuPont Arkema INEOS	R-12 R-500	Single Component Fluid HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Used in large screw chillers.	1430

## Centrifugal Chiller Refrigerants

ASHRAE #	Trade Name	Manufacturer	Replaces	Type <sup>(a)</sup> <sup>(b)</sup>	Typical Lubricant <sup>(a)</sup>	Applications	Comments	GWP*
<b>R-123</b>	Genetron® 123 Suva® 123 Forane® 123	Honeywell DuPont Arkema	R-11	Single Component Fluid HCFC	Alkylbenzene Mineral Oil Synthetic (POE, PVE)	New Equipment Retrofits	Due for phase out in 2030	77
<b>R-134a</b>	Genetron® 134a Suva® 134a Forane® 134a Klea® 134a	Honeywell DuPont Arkema INEOS	R-12 R-500	Single Component Fluid HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Used in many new chiller designs.	1430

## Commercial Refrigeration HFC Refrigerants

ASHRAE #	Trade Name	Manufacturer	Replaces	Type <sup>(a)</sup> <sup>(b)</sup>	Typical Lubricant <sup>(a)</sup>	Applications	Comments	GWP*
<b>R-404A</b> 125/143a/134a (44%/52%/4%)	Genetron® 404A Suva® HP62 Forane® 404A	Honeywell DuPont Arkema	R-502 R-22 HP-80 R-408A	Blend HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Most widely used low and medium temperature replacement.	3922
<b>R-507</b> 125/143a (50%/50%)	Genetron® AZ-50® Suva® 507	Honeywell DuPont	R-502 R-22 HP-80 R-408A	Azeotrope HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Slightly higher pressures and efficiency than R-404A. Best choice for systems with flooded evaporators.	3985
<b>R-422D</b> 125/134a/600a (65.1%/31.5%/3.4%)	Genetron® 422D Isceon MO 29	Honeywell DuPont	R-22	Blend HFC/HC Blend	Mineral Oil POE	New Equipment Retrofits	Lower capacity Use of POE will enhance oil return, if required.	2729
<b>R-407C</b> 32/125/134a (23%/26%/52%)	Genetron® 407C Suva® 9000 Forane® 407C	Honeywell DuPont Arkema	R-22	Blend HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Reasonable performance match to R-22 in medium temperature refrigeration. Lower capacity in low temperature refrigeration system. Best A/C retrofit.	1744
<b>R-407F</b> 32/125/134a (30%/30%/40%)	Genetron® Performax™ LT	Honeywell	R-22	Blend HFC	Synthetic (POE, PVE)	New Equipment Retrofits	Best performance match and highest efficiency to R-22. In most cases one POE oil change is sufficient.	1824
<b>R-134a</b>	Genetron® 134a Suva® 134a Forane® 134a Klea® 134a	Honeywell DuPont Arkema INEOS	R-12	Single Component Fluid HFC	Synthetic (POE, PVE)	New Equipment	Performs well in small hermetic systems.	1430



## connect with your customers

Total Connect Comfort Services And The RedLINK™ Internet Gateway

# RedLINK



Item	Description
THM6000R1002	RedLINK Internet Gateway Module

**Your customers have the ability to customize their system and alert settings, download free mobile apps and more at the Total Connect Comfort web portal.**

### Total Connect enables users to:

- View and change HVAC system settings
- View and set the temperature
- View indoor humidity
- View outdoor temperature and humidity
- Access multiple thermostats if the system is zoned
- Receive temperature and humidity alerts via e-mail
- Get automatic upgrades as new features are available
- Access multiple locations if more than one system is connected

## Or just go Wi-Fi...

The Wi-Fi thermostat works seamlessly with Honeywell's My Total Connect Comfort Services. Your customers will enjoy being able to monitor and control their home's comfort settings from anywhere at anytime.



TH8320WF1029

TH6320WF1005

# the everyday problem solver

Wireless FocusPRO® Systems



## Wireless FocusPRO™ Thermostats



Wireless FocusPRO thermostats go anywhere and solve any problem. Relocating a thermostat to a more ideal sensing location, installing multi-stage equipment, cooling retrofits when wires are not available, or adding zoning is easy with Wireless FocusPRO.

### YTH6320R1001 Wireless FocusPRO Thermostat Kit

Everything you need to relocate thermostat or upgrade equipment without running new wires.

- Powered by RedLINK™ reliability
- No interference with other wireless devices in the home
- Same great features of the FocusPRO® thermostat - now wireless
- Displays outdoor temperature and humidity (outdoor sensor sold separately)
- All HVAC equipment is wired to the module
- Module receives communication from all wireless devices Return Air Sensor
- Works with the EIM to maintain safe indoor temperatures if power is lost at the wireless thermostat



**Includes:** TH6320R1004 Wireless FocusPRO® 5-1-1 Programmable Thermostat;  
THM5320R1000 Equipment Interface Module; C7735A1000 Return Air Sensor

## TrueZONE™ Wireless Zoning Systems

When used with our RedLINK-enabled TrueZONE™ panels, the Honeywell Wireless Adapter allows you to easily – and wirelessly – add zoning to any home or add more zones to an existing system. Most zoning jobs can be done in one day and bidding risk is virtually eliminated.

### YTH6320R1023 Wireless Zoning Adapter Kit

Wireless Zoning Adapter Kit allows you to easily add to a TrueZONE™ system without running new wires.

**Includes:** TH6320R1004 Wireless FocusPRO® 5-1-1 Programmable Thermostat;  
THM4000R1000 Wireless Adapter



# the power of connection

RedLINK™ Wireless Accessories

THERMOSTATS



## THM6000R1002 RedLINK Internet Gateway Module

- Connects any RedLINK™ Comfort System to the Internet to provide your customers with remote access from their PC, smart phone or tablet
- Allows users to remotely monitor and control their heating and cooling systems, including whole-house humidifiers and dehumidifiers – at anytime, from anywhere
- Works with any Prestige IAQ / Prestige, Wireless FocusPRO and EConnect™
- View/change system settings and access multiple systems/zones
- Provides over 90 alerts through the Total Connect website
- Upgrades automatically as new features become available
- No monthly fee, free app download



## THM4000R1000 Wireless Adapter

- No more running wires in the living space
- Add wireless zoning with RedLINK-enabled TrueZONE
- Offer zoning control in more homes than ever before
- Reduce bidding risk by eliminating wiring time and hassles
- Increase sales opportunities, such as adding a wireless Portable Comfort Control
- Allows all wireless indoor and outdoor sensors to communicate, improving efficiency and letting you easily provide customers with humidity readings on their Prestige thermostat
- Get more sales opportunities while reducing installation and setup time



## C7189R1004 Wireless Indoor Air Sensor

- Works with Prestige 2.0 Comfort Systems Only
- Manages temperature and humidity separately
- Changes the sensing location of the thermostat
- Averages temperature for more even comfort control
- Humidifies and dehumidifies separate spaces
- Use up to six sensors per application



## C7089R1013 Wireless Outdoor Sensor

- Installs wirelessly with two simple screws and a touch of a button
- Displays outdoor temperature and humidity on all RedLINK-enabled devices
- Weather-resistant cover and lithium batteries for reliable performance in every climate
- Up to a 5 year battery life



## REM5000R1001 Portable Comfort Control

- Conveniently control temperature from any room
- RedLINK-enabled to work with the Wireless Outdoor Sensor
- Displays outdoor temperature and humidity
- With zoning - change the temperature in any zone from one device
- Can be paged with an audible noise from any RedLINK-enabled thermostat



the #1 choice

Honeywell Thermostats



# Prestige<sup>®</sup> 2.0 Comfort Systems

## Prestige 2.0

### Prestige 2.0 Saves Time and Builds Relationships

- User Interaction – Keeps a searchable history of the past 250 thermostat setting changes including temperature, system mode and installer setup.
- Alert Log – Stores 25 alerts within the thermostat to help you save customer relationships by determining if the issue is a system error or a user error.

### Prestige 2.0 Gives You Options

- Universal Assignable Outputs – Outputs used for Indoor Air Quality devices or to help meet customers' needs for equipment to stage in a particular way.

### Prestige 2.0 Is Now Commercial

- Commercial Language – Displays: Occupied, Unoccupied, Override and Holiday.
- 365-Day Scheduling – Allows for the creation of custom events to program Prestige based on business hours.
- Economizer – Enables an economizer to provide ventilation during occupied periods and cooling when outdoor conditions are favorable.
- Time of Day Control – Energizes lighting panels during occupied periods.
- Meet Building Codes – Meets all commercial building codes and Title 24.



Item	Description
THX9321R5030	Prestige 2.0 HD Thermostat

## Prestige IAQ 2.0 Gives You Even More...

### Prestige IAQ 2.0 Gets Delta T Diagnostics & Alerts

- Delta T – Comes standard with both a return and a discharge air temperature sensor to measure Delta T.
- Customer Alerts – Limits set at installation create customer alerts when their system is not operating as expected.
- Sense of Security – Alerts customers that there is an issue prior to a loss of heating or cooling.

### Prestige IAQ 2.0 Gives You More Options

- Two Assignable Inputs – Offers assignable inputs for wired sensors, remote setback, or dry contacts.
- Alerts – Inputs selected trip pre-packaged or custom alerts such as “full drain pan” or “water leak.”



Item	Description
YTHX9421R5051	Prestige IAQ 2.0 HD Thermostat w/ EIM & Duct Sensors

# three wires are all you need

Honeywell VisionPRO® IAQ



**VisionPRO® IAQ** is everything that you love about VisionPRO® and so much more. Use it for every job where you need to:

- Upgrade to Multi-Stage Equipment — Save time, money and hassle. There's no need to pull additional wires through the wall to connect the thermostat in the living space. Three wires are all you need, and everything else wires through an Equipment Interface Module at the equipment.
- Add Air Quality Enhancements Without Wall Clutter — VisionPRO IAQ gives you all-in-one control for temperature, humidification, dehumidification and ventilation systems — eliminating the need for multiple controls in the living space. Everything can be managed from a single, effortless, touchscreen control.
- Eliminate the Need for a Fossil Fuel Kit — VisionPRO IAQ has a built-in fossil fuel kit. It practically pays for itself versus buying a kit.
- Display Outdoor Temperature — Use our outdoor temperature sensor to display outdoor temperature on the thermostat. Sensor included with YTH9421C1010 model.
- Reduce Inventory — VisionPRO IAQ is universal and works with almost every brand of heating/cooling equipment up to 3 Heat/2 Cool conventional and 4 Heat/2 Cool heat pump with two stages of auxiliary heat.
- Quiet Operation — All relays are housed in the Equipment Interface Module at the equipment, eliminating the clicking noise commonly heard at thermostats in the living space.
- Use and sell VisionPRO IAQ with confidence. VisionPRO IAQ is not only simple to install, simple to upgrade and simple for homeowners to use — it's simply the best value on the market today.



Item	Description
YTH9421C1010	VisionPRO IAQ Stat/Module/Sensor
YTH9421C1002	VisionPRO IAQ Stat & Module

\*Private Labeling Available

## VisionPRO® IAQ Accessories



Item	Description
C7089U1006	VisionPRO Wired Outdoor Sensor
C7189U1005	VisionPRO Wired Indoor Sensor
C7735A1000	VisionPRO Wired Discharge Air Sensor



# maximize comfort and energy savings

VisionPRO® 8000



## VisionPRO® 8000

Honeywell's VisionPRO 8000 is effortless to use. Its intuitive logic and menu-driven programming respond to your choices and schedule for optimal comfort and energy savings. VisionPRO offers you top-of-the-line features like touchscreen interaction, a real-time clock, and a large, easy-to-read backlit display.

**Energy Savings** — Program to save up to 33% on annual heating and cooling costs.\*

**#1 Choice of Homeowners** — Honeywell is the leading brand in temperature control.

**Effortless, Menu-Driven Programming** — Simplifies programming by responding to your choices.

**Precise Comfort Control (+/-1°F)** — Maintains consistent comfort to the highest level of accuracy.

**Programmable Fan** — Offers increased indoor air quality when combined with a Honeywell Whole-house Air Cleaner.

**Large, Clear Backlit Digital Display** — Easy to read in various lighting conditions.

**Touchscreen Interaction**

**Selectable IAQ Control** — Select models allow for control of humidification, dehumidification or ventilation systems.

**Multiple HOLD Options** — Allows you to override the program schedule as desired, with temporary and vacation hold settings.

**5-Year Warranty**

**Change/Check Reminders** — Let you know when to service or replace filters, batteries, etc.

**Real-Time Clock** — Keeps time during power failure and automatically updated for daylight savings.

**Dual Fuel Capable** — Select models allow for control of dual fuel systems.

\*Private Labeling Available

Item	Stages	Dehumidification	Selectable IAQ Control	Wi-Fi
TH8321U1097	Up to 3H/2C	✓	✓	
TH8321U1006	Up to 3H/2C	✓		
TH8320WF1029	Up to 3H/2C			✓
TH8320U1008	Up to 3H/2C			
TH8110U1003	1H/1C			

**Available  
with Wi-Fi !!**

# FocusPRO® 6000

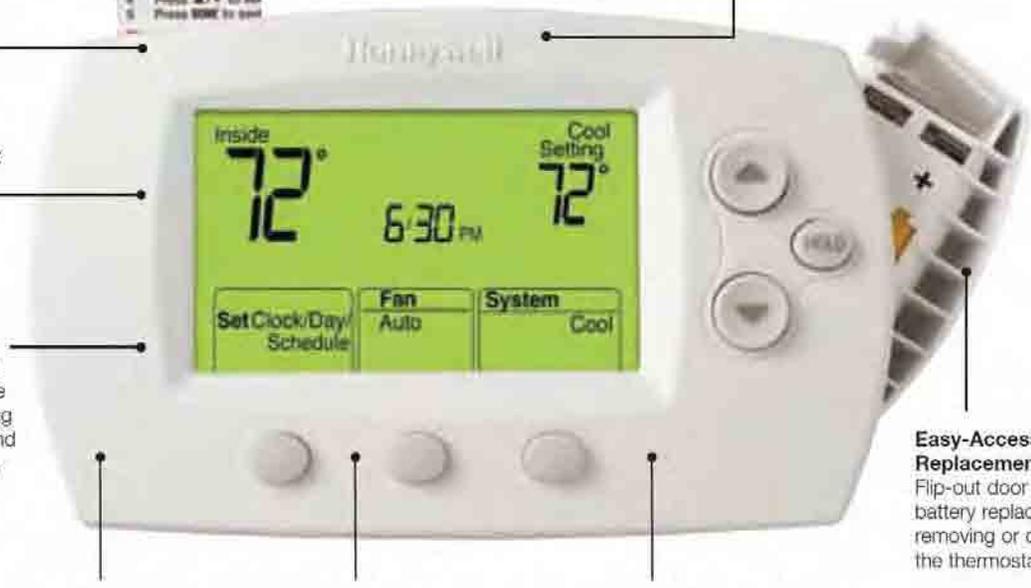
Now in 2H/2C Wi-Fi!  
TH6320WF1005

**Energy Savings** — Program to save up to 33% on annual heating and cooling costs.\*

**Built-in Instructions** — Simple, pull-out instruction manual.

**Large, Clear Backlit Digital Display** — Easy to read in various lighting conditions.

**RedLINK™ Wireless Models** — Re-locate a thermostat, upgrade equipment, add zoning and more — quickly and easily — without wires.



**Easy-Access Battery Replacement** — Flip-out door allows for easy battery replacement without removing or disassembling the thermostat.

**5-Year Warranty**

**Display Size Options** — Available in large screen (shown) or standard.

**Precise Comfort Control (+/-1°F)** — Maintains consistent comfort to the highest level of accuracy.

**FocusPRO® 6000 5-1-1 Day Programmable Thermostat**

Part Numbers	Stages	Display Size
TH6320U1000	Up to 3H/2C	Large
TH6220D1028	Up to 2H/2C	Large
TH6220D1002	Up to 2H/2C	Standard
TH6110D1021	1H/1C	Large
TH6110D1005	1H/1C	Standard

\*Private Labeling Available

**Wireless FocusPRO® 6000 5-1-1 Day Programmable Thermostat**

Part Numbers	Stages	Display Size
TH6320R1004	Up to 3H/2C	Large

# FocusPRO® 5000

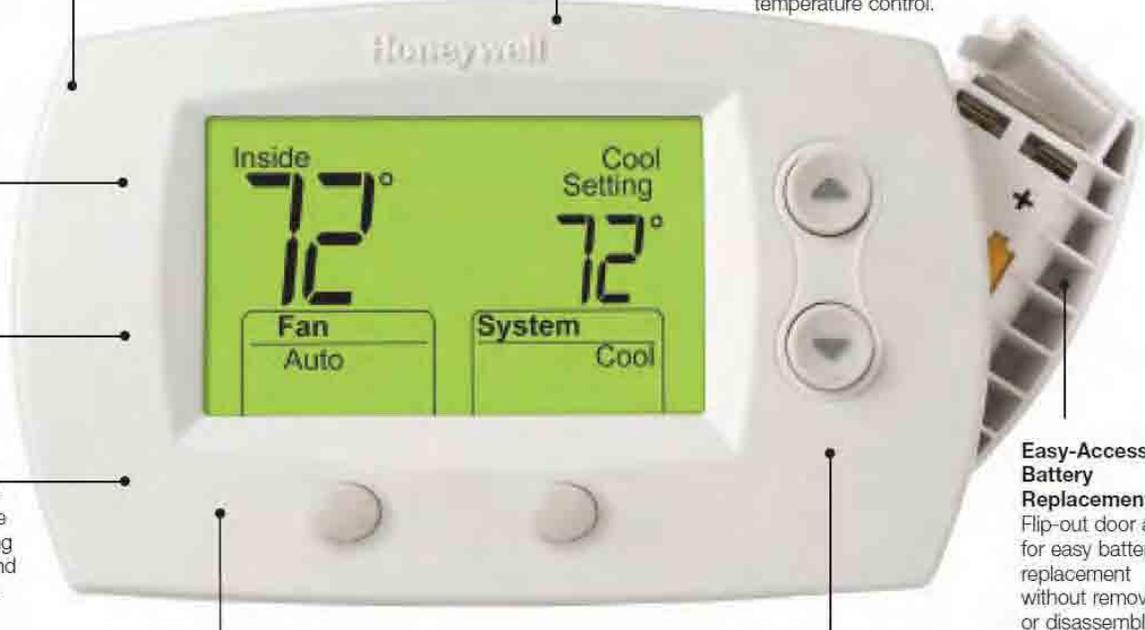
**Display Size Options** — Available in large screen (shown) or standard.

**#1 Choice of Homeowners** — Honeywell is the leading brand in temperature control.

**Large, Clear Backlit Digital Display** — Easy to read in various lighting conditions.

**Precise Comfort Control (+/-1°F)** — Maintains consistent comfort to the highest level of accuracy.

**RedLINK™ Wireless Models** — Re-locate a thermostat, upgrade equipment, add zoning and more — quickly and easily — without wires.



**Easy-Access Battery Replacement** — Flip-out door allows for easy battery replacement without removing or disassembling the thermostat.

**Soft-Key Controls**

**FocusPRO® 5000 Digital Non-Programmable Thermostat**

Part Numbers	Stages	Display Size
TH5320C1002	Up to 3H/2C	Large
TH5320U1001	Up to 3H/2C	Large
TH5220D1029	Up to 2H/2C	Large
TH5110D1022	1H/1C	Large
TH5220D1003	Up to 2H/2C	Standard
TH5110D1006	1H/1C	Standard

\*Private Labeling Available

**Wireless FocusPRO® 5000 Digital Non-Programmable Thermostat**

Part Numbers	Stages	Display Size
TH5320R1002	Up to 3H/2C	Large

# PRO 4000

## BASIC PROGRAMMABLE COMFORT.

Part Numbers	Stages	Display
TH4110D1007	1 Heat/1Cool	Backlit
TH4210D1005	2 Heat/1 Cool (Heat Pump)	Backlit

- To set time and**
- 1 Press SET
  - 2 Press ▲/▼ to s
  - 3 Press SET
  - 4 Press ▲/▼ to s
  - 5 Press RUN to sav

**Built-in Instructions** — Simple, pull-out instruction manual.

**#1 Choice of Homeowners** — Honeywell is the leading brand in temperature control.

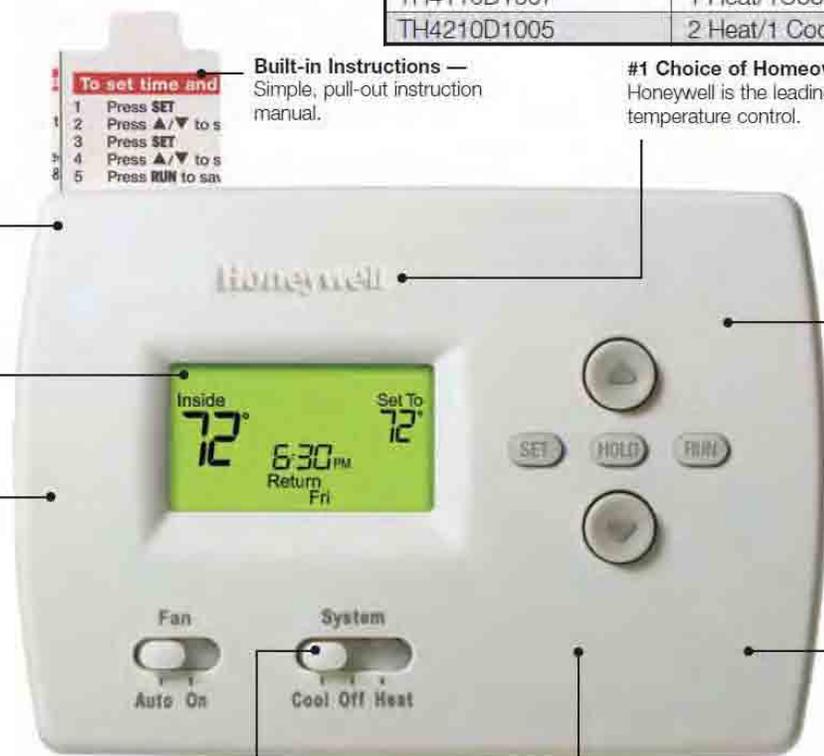
**Energy Savings** — Program to save up to 33% on annual heating and cooling costs.\*

**Display Options** — Available in backlit (shown) or standard.

**Digital Display** — Both current and set temperature are easy to read in various lighting conditions.

**Precise Comfort Control (+/-1°F)** — Maintains consistent comfort at the highest level of accuracy.

**Weekday/Weekend Programming** — 5-2 (weekdays, weekend) programming to fit your lifestyle.



**Basic Operation** — Easy-to-use slide switches allow you to select the heat or cool mode, and operate the fan.

5-Year Warranty

\*Private Labeling Available

# PRO 3000

## BASIC COMFORT.

Part Numbers	Stages	Display
TH3110D1008	1 Heat/1Cool	Backlit
TH3210D1004	2 Heat/1 Cool (Heat Pump)	Backlit

**Backlit Digital Display** — Both current and set temperature are easy to read in various lighting conditions.

**Basic Operation** — Slide switches allow you to select the heat or cool mode, and operate the fan.

**#1 Choice of Homeowners** — Honeywell is the leading brand in temperature control.

**Precise Comfort Control (+/-1°F)** — Maintains consistent comfort at the highest level of accuracy.



5-Year Warranty

\*Private Labeling Available



T701



T721

Light key on the top makes it easy to check the status without ever changing settings

Extra large blue backlight screen

5/1/1 programmable models available

Intuitive set-point buttons

Very large numbers in a bright easy-to-read display

Easy menu driven programming on programmable models



T705 / T715



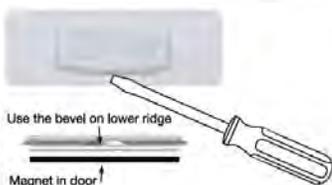
T755H

Item #	Mfg. #	Stages	Features
THT03020	T701	1H/1C	Non-Programmable
THT03023	T721	2H/1C	Non-Programmable

Item #	Mfg. #	Stages	Features
THT03021	T705	1H/2C	5/1/1 Programmable
THT03022	T715	2H/1C	5/1/1 Programmable
THT03026	T755H	3H/2C	5/1/1 with Dehumidity

### Private Label Program

The Pro1 private label program doesn't require you to stock expensive thermostat inventory. Just buy what you need. Snap off the Pro1 brand and snap on your brand. It couldn't be easier.



Light key on the top makes it easy to check the status without ever changing settings

Intuitive wake, leave, return, sleep programming icons

7 day, 5/1/1 or non programmable options



Intuitive set-point buttons

Extra large blue backlight screen

Very large numbers in a bright easy-to-read display

Programmable fan

Touchscreen

Item #	Mfg. #	Stages	Features
THT03035	T955	3H/2C	7-Day Programmable Touchscreen

## Pro1 Wireless Solutions



T955WH Wireless Kit

Item #	Mfg. #	Description
THT03037	T955WH	Wireless Thermostat Kit (7-Day Programmable Stat w/ Humidity Inc.)
SEN02035	R251W	Wireless Indoor Sensor
SEN02033	R250W	Wireless Outdoor Sensor
CNT06736	WW160W	"Wireless Wire" Condenser/Air Handler Kit



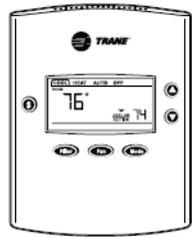
R251W / R250W



WW160W

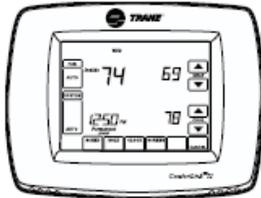
**Connect up to 2 Heat/2 Cool Conventional or 3 Heat/2 Cool Heat Pump Wirelessly**  
 Wireless Wire® was developed jointly with HVAC professionals. Wireless Wire® functionally replaces 24 VAC control wiring. Simply connect the terminals on one module and when those terminals see 24V then the same terminals on the other module close. Wireless Wire® is another Pro1 innovation offered exclusively to our professional HVAC contractor partners.

# Trane Residential Comfort Controls



THT02424

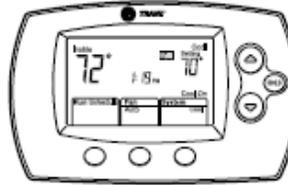
Item	Description	OE Number
CNT04837	XL900 Comfortlink II	TCONT900AC43UA
THT02480	Trane 7-Day 3H/2C w/ Dehumidity	TCONT803AS32DA
THT02478	Trane 7-Day Programmable. 3H/2C	TCONT802AS32DA
THT02476	Trane 7-Day Programmable. 1H/1C	TCONT800AS11AA
THT02504	Trane 5/2 Programmable. - 2H/2C	TCONT602AF22MA
THT02502	Trane 5/2 Programmable. - 1H/1C	TCONT600AF11MA
THT02509	Trane Non-Programmable. - 3H/2C	TCONT402AN32DA
THT02451	Trane Non-Programmable. - 2H/1C	TCONT401AN21MA
THT02424	Trane Non-Programmable. - 1H/1C	TCONT200AN11AA



CNT04837



THT02480/2478/2476



THT02504 / 2502



THT02509 / 2451

## Honeywell Commercial Comfort Controls

### Honeywell Commercial MultiPRO 7000

When it comes to versatility, the new Honeywell MultiPRO thermostat stands out. Not only does it offer multi-speed fan control, it covers a wide range of programmable and non-programmable applications: packaged terminal air conditioning (PTAC) units, fan coil, heat pump and conventional. Owners and managers of condos, townhomes, senior-living facilities, hotels and other multi-unit residences will particularly like the additional energy-saving features for their PTAC units and fan coil systems.

- PTAC — 2 heat/1 cool
- Fan Coil — 2 and 4 pipe
- Conventional — 1 heat/1 cool
- Heat Pump — 2 heat/1 cool
- Part # TB7100A1000



TB7100A1000

### Honeywell Commercial VisionPRO

The TB8220 provides temperature control for gas, oil, electric and heat pumps for up to 2 heat, 2 cool systems.

- **Great Features** -The sleek design, menu-driven programming and large touchscreen display are all here.
- **Saves Energy** - Effortless programming helps your customers save up to 33% off their energy bill.1
- **Title 24 Energy/Air Quality Compliance** - Preoccupancy Purge and Override Limits meet all fresh air and override limitation requirements.
- **Multiple Lockout Levels** - Save energy and money by preventing unauthorized setting changes.
- **Holiday Setback** - Lets users easily select the temperature to maintain while they're away from the building without re-programming.
- **Configurable Recovery Ramps** - Automatically changes the temperature so that it ramps up gradually, helping to prevent oversized equipment from going beyond the desired temperature.



TB8220U1003

### Conventional Thermostat Interface

**Item # - BRD00968** The conventional Thermostat Interface (CTI) provides the customer with the ability to use a thermostat with the Voyager Micro control units in place of a zone sensor.

## Integrated Comfort System Sensors for Trane Reliabel Units

### Room Sensor with Timed Override

- Use with Integrated Comfort™ Systems
- Use With: 3 – 10 Ton Precedent Units; 12.5 – 25 Ton Voyager™ Units
- Timed Override Buttons



Item	OE Number
SEN01450	BAYSENS073A

### Room Sensor w/ Setpoint Adjustment

- Use with Integrated Comfort™ Systems
- Use With: 3 – 10 Ton Precedent Units; 12.5 – 25 Ton Voyager™ Units
- Timed Override Buttons
- Thumbwheel Setpoint



Item	OE Number
SEN01447	BAYSENS074A

# Commercial Comfort Controls for Trane Reliabel Units

## 3H/2C Commercial Thermostat

- Large, Clear Display with Backlighting – Current temperature, set temperature and time are easy to read and are displayed on the main screen.
- Menu Driven Programming – Provides guidance through the scheduling process, showing necessary information and choices on each screen.
- Real-Time Clock – Keeps time during power failure; automatically updates for daylight savings.
- Multiple OVERRIDE options – Can modify schedule indefinitely or for a specific period of time.
- Precise Temperature Control ( $\pm 0.05$  °F) – reliable, consistent comfort.
- Internal Humidity Sensor
- Manual or Auto Changeover
- 2 or 4 Scheduling Periods
- 3H / 2C



Item	OE Number
THT02775	BAYSTAT152A

## 3H/2C Programmable Comfort Control

- Large, Clear Display with Backlighting—Current temperature, set temperature and time are easy-to read and all are displayed on the main screen.
- Intuitive graphics is not dependent on user language.
- Menu Driven Programming—Provides guidance through the scheduling process, showing only necessary information and choices on each screen.
- Ability to Select Multiple Days— Allows easy customizing for unique schedules.
- Real-Time Clock—Keeps time during power failure; automatically updates for daylight saving time.
- Precise Temperature Control ( $\pm 1$  °F) – reliable, consistent comfort.
- Multiple OVERRIDE options—Can modify schedule for a specific period of time (up to 365 days).
- 3 Heat / 2 Cool



Item	OE Number
THT02773	BAYSTAT150A

## Remote Zone / Room Sensor

- Remote Zone Sensor
- Use With: BAYSENS106, 107, 108, 109, 010, 119
- Allows remote zone monitoring with standard electronic zone sensors



Item	OE Number
SEN01448	BAYSENS077A

## 3H/2C Non-Programmable Control

- Large, clear, backlit display is easy to read, even in the dark.
- Displays both room temperature and temperature setting.
- Intuitive graphics is not dependent on user language.
- One-touch temperature control.
- Built-in compressor protection.
- 3 Heat / 2 Cool



Item	OE Number
THT02774	BAYSTAT155A

# Zone Sensors for Trane Reliabel Units

## LCD Programmable Zone Sensor

- Automatic or Manual Changeover with System Lights
- For 3 – 10 Ton Precedent™ Units / 12.5 – 25 Ton Voyager™ Units
- Digital display indicating the time, day, date, room temperature, current program operating mode, and current active stage
- 2 occupied, 2 unoccupied programs per day
- Status indication lights displayed in Display
- Keyboard disable to prevent tampering
- Remote Room Sensor (BAYSENS077A)
- Continuous or 3 hour timed override
- Programming on a 7-day basis



Item	OE Number
SEN01577	BAYSENS119A

## LCD Non-Programmable Zone Sensor

- Non-Programmable Sensor with a digital display
- Used with 3-25 ton packaged units
- 7 wires required.



Item	OE Number
SEN01599	BAYSENS135A

## Dual Setpoint Sensor

### For Straight Cool & Gas Units

- Dual Setpoint
- Manual or Auto Changeover
- Use With: 3 - 10 Ton Precedent™ Units T°C, Y°C; 12.5 - 25 Ton Voyager™ Units - YCD/YCH & TCD/TCH
- Heat/Auto/Off/Cool Switch
- Auto/On Fan Switch



Item	OE Number
SEN01513	BAYSENS108A

## Dual Setpoint with Indicator Lights

### For Heat Pump Units

- Use With: 3 - 10 Ton Precedent™ Units WSC; 12.5 - 20 Ton Voyager™ Units WCD/WCH
- Manual or Auto Changeover
- Heat/Auto/Off/Cool Switch
- Normal/Emergency Heat Switch
- Auto/On Fan Switch
- Heat Indicator Light



Item	OE Number
SEN01523	BAYSENS109A

## Dual Setpoint with Indicator Lights

### For Straight Cool & Gas Units

- Use With: 3 - 10 Ton Precedent™ Units T°C, Y°C; 12.5 – 25 Ton Voyager™ Units YCD/YCH & TCD/TCH
- System On/Heat/Cool/Service Indicator Lights
- Blue Cool/Red Heat Setpoint Levers
- Manual or Auto Changeover
- Heat/Auto/Off/Cool Switch
- Auto/On Fan Switch



Item	OE Number
SEN01522	BAYSENS110A

# the zoning leader

Honeywell Zoning Systems

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## TrueZONE® Panels

### Zoning Made Effortless

If you've ever installed a zoning system by running thermostat wires and setting manual dip switches, you'll appreciate the convenience and time savings of Honeywell TrueZONE® panels. RedLINK Wireless Thermostats eliminate the need to run wires, while the patented digital installer setup and push terminals for wiring means no screwdriver is required. Plus, TrueZONE's standardized checkout process helps eliminate callbacks by ensuring that the system is operating properly before the installer leaves the jobsite. It all adds up to true comfort for your customers and true profit for your bottom line.

**Intuitive Installer Setup** — Easy-to-follow, digital display uses real language to guide installer through setup. (HZ432 and HZ322 only)

**RedLINK Wireless Technology** — Enabled with the first wireless protocol specifically designed for the HVAC industry making installation effortless. RedLINK technology allows for added comfort control with the Portable Comfort Control and Wireless Outdoor Air Sensor. (HZ432 and HZ322 only, Wireless Adapter Required)

1. Portable Comfort Control allows homeowner to centrally control all RedLINK enabled thermostats at their fingertips
2. Wireless Outdoor Air Sensor displays outdoor temperature and humidity on all RedLINK devices while also controlling dual fuel applications
3. Eliminate need to pull thermostat wire to the TrueZONE panel

**Standardized Checkout Procedure** — Standardizes the checkout process so that every installer checks out in the same way, every time to ensure that all zones are operating correctly before leaving the jobsite. Only one installer needed for checkout. (HZ432 and HZ322 only)

**Discharge Temperature (DATS) Staging** — Downstages equipment when discharge air temperature is near the limit. (HZ432 and HZ322)

**Advanced Dual-Fuel Operation** — Offers dual-fuel changeover based on outdoor temperature and/or thermostat staging. (HZ432 only)

#### Features Common to all TrueZONE Panels

**Robust Push Terminals** — Push-in terminal blocks wire in literally half the time compared to screw terminals — with no screwdriver required. Plus, wires lock-in to the terminals for a tight fit.

**Common-Sense LEDs** — Indicate which zones are calling, what stage they are calling for (heat/cool) and when the emergency heat is on.

**Universal Application** — TrueZONE panels work with virtually any brand equipment for zone control of conventional, heat pump or dual fuel systems.

**Clean, Professional Installation** — Wire channel allows installer to run wires on the side, top, bottom or backside of the panel and wire anchors help hold wires in place.

**Smaller Footprint** — Gives installer the ability to mount TrueZONE panels anywhere — on the return duct, studs or wall next to the system. All panels are eight inches wide.

**Variable-Speed Fan Control** — Reduces blower speed in cooling when one zone is calling.

## TrueZONE® HZ432 Panel - HZ432K

For conventional, heat pump or dual fuel applications up to 4 zones (3H/2C).

- Intuitive Installer Setup
- RedLINK-Enabled with Wireless Adapter
- Universal Application
- Standardized Checkout Procedure
- Robust Push Terminals



## TrueZONE® HZ322 Panel - HZ322K

For conventional and heat pump applications up to 3 zones (2H/2C).

- Intuitive Installer Setup
- RedLINK-Enabled with Wireless Adapter
- Universal Application
- Standardized Checkout Procedure
- Robust Push Terminals
- Common-Sense LEDs
- Variable-Speed Fan Control
- Discharge Air Temperature Staging



## TrueZONE® HZ221 Panel - HZ221K

For single stage heat pump applications with auxiliary heat up to 2 zones (2H/1C).

- Robust Push Terminals
- Common-Sense LEDs
- Clean, Professional Installation
- Smaller Footprint



## TotalZone® Add-A-Zone™ - TAZ-4

Zone panel used to add zones to HZ432.

- Used with HZ432 Panel to add 4 zones
- Uses multiple TAZ-4 Panels to control up to 32 zones



# Choose Your Zoning System in 4 Easy Steps

## Conventional Zoning

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### Step 1: Select a Conventional Zoning Kit



Kits include:

- TrueZONE® Panel
- C7735A1000 Discharge Air Temp Sensor
- AT140A1042 40VA Transformer

HZ432K	For conventional, heat pump or dual fuel up to 32 zones*(3H/2C)
HZ322K	For conventional or heat pump up to 3 zones (2H/2C)
HZ221K	For single stage heat pump w/aux. heat up to 2 zones(2H/1C)

*\*Every additional 4 zones requires a TAZ-4 Expansion Panel/AT140A1042 Transformer*

### Step 2: Select a Thermostat for Each Zone

Any 4-Wire Honeywell thermostat will work.

TH8321U1097	VisionPRO 7-Day Touchscreen Prog. 3H/2C w/ Dehum
TH8321U1006	VisionPRO 7-Day Touchscreen Prog. 3H/2C w/ Dehum
TH8320U1008	VisionPRO 7-Day Touchscreen Prog. 3H/2C
TH8110U1003	VisionPRO 7-Day Touchscreen Prog. 1H/1C
TH6220D1028	FocusPRO 5-1-1 Day Prog. 2H/2C. Large Display
TH6220D1002	FocusPRO 5-1-1 Day Prog. 2H/2C. Standard Display
TH6110D1021	FocusPRO 5-5-1 Day Prog. 1H/1C. Standard Display
TH6110D1005	FocusPRO 5-1-1 Day Prog. 1H/1C. Standard Display
TH5220D1029	FocusPRO Non-Prog. 2H/2C. Large Display
TH5220D1003	FocusPRO Non-Prog. 2H/2C. Standard Display
TH5110D1022	FocusPRO Non-Prog. 1H/1C. Large Display
TH5110D1006	FocusPRO Non-Prog. 1H/1C. Standard Display

### Step 3: Select Zoning Dampers

All dampers are 2-wire, spring-open/power closed.  
Additional dampers available.

#### Rectangular Supply Dampers - Common Sizes

ZD10X8	ZD18X8
ZD12X8	ZD20X8
ZD14X8	ZD20X10
ZD16X8	ZD24X8

Motor is mounted on 2nd dimension. For bottom-mounted motors, reverse the dimensions.



#### Round Supply Dampers - Common Sizes

ARD6	ARD14
ARD8	ARD16
ARD10	ARD18
ARD12	

For replacement damper actuators, select **M847D1012**



#### Retrofit Round Dampers - Common Sizes

RRD5	RRD7
RRD6	RRD8

Power open, power closed



### Step 4: Select Bypass Dampers

Calculate Total CFM, then choose Supply-To-Return Bypass

$$\frac{\text{Total CFM of system}}{\text{minus}} - \frac{\text{CFM of smallest zone}}{\text{equals}} = \frac{\text{Total CFM to bypass}}{\text{Total CFM to bypass}}$$

Bypass Damper	CFM Range
SPRD8	0 to 400 CFM
SPRD10	401 to 750 CFM
SPRD12	751 - 1200 CFM
SPRD14	1201 to 1800 CFM
SPRD16	1801 to 2400 CFM

# Wireless RedLINK™ Zoning

### A: Select a RedLINK Enabled Zoning Kit



Kits include:

- TrueZONE® Panel
- C7735A1000 Discharge Air Temp Sensor
- AT140A1042 40VA Transformer

HZ432K	For conventional, heat pump or dual fuel up to 32 zones*(3H/2C)
HZ322K	For conventional or heat pump up to 3 zones (2H/2C)

*\*Each additional 4 zones requires a TAZ-4 Expansion Panel/AT140A1042 Transformer*

### B: Choose a Wireless Zoning Adapter Kit



Kits include:

- Wireless FocusPRO Thermostat
- THM4000R1000 Wireless Adapter

YTH6320R1023	Programmable Wireless Zoning Adapter Kit
YTH5320R1025	Non-Programmable Wireless Zoning Adapter Kit
THM4000R1000	Wireless Adapter Only

### C: Select a RedLINK Enabled Thermostat for Each Additional Zone

THX9421R5013	Prestige IAQ 2.0 HD Thermostat
THX9321R5030	Prestige 2.0 HD Thermostat
TH6320R1004	5-1-1 Programmable Wireless FocusPRO
TH5320R1002	Non-Programmable Wireless FocusPRO

### D: Choose Your Zone and Bypass Dampers Following Steps 3 and 4 listed above

# Honeywell

## TrueDRY™ Dehumidification Systems



DEHUMIDIFICATION

### The Best Solution

Homeowners with excess humidity in their homes often purchase portable, single-room dehumidifiers that can be noisy and difficult to maintain. Plus, they only remove moisture in the rooms where they're located.

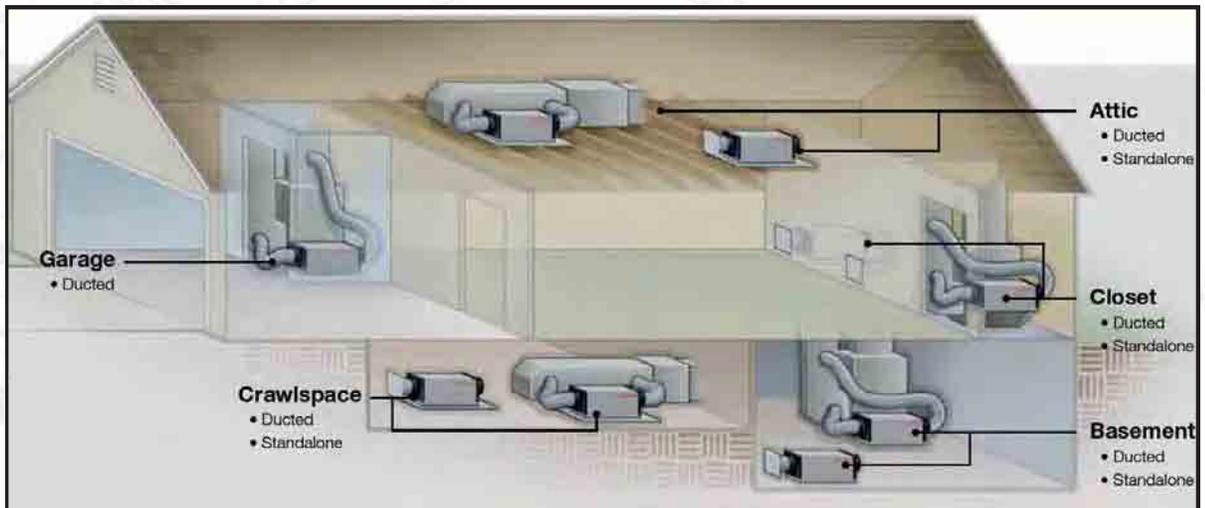
TrueDRY™ Dehumidification Systems are integrated into your HVAC equipment, which means they're more effective and can be less expensive than putting multiple single-room units in a home. Plus, every TrueDRY dehumidifier is ENERGY STAR rated providing efficient and economical operation.

TrueDRY™ can also be used as a standalone solution to quietly remove moisture from specific problem areas, improve comfort and eliminate the need for maintenance (such as emptying collection buckets) — all while using less energy compared to most portable dehumidifiers.

Also, all TrueDRY™ models utilize environmentally friendly R-410A refrigerant and conform to EPA standards for refrigerants. So, along with offering you a complete selection to meet the dehumidification needs of any size home, Honeywell also has you covered as EPA regulations take hold. That's peace of mind for both you and your customers. All TrueDRY dehumidifiers are ENERGY STAR rated and come with a 5-year warranty.

### Installation Flexibility

Honeywell TrueDRY™ dehumidifiers are designed to be flexible to fit in a wide variety of applications. The units are more compact than ever before, and include features such as reversible output ducts to help fit the unit up against tight spaces.



# TrueDRY™ Dehumidification Systems and Control Options Chart

## Dehumidification Systems

Product	Description	Home Size	Humidity Removal	Application	Key Features	Refrigerant	Electrical Rating	Size
 DR65A2000	65-pint dehumidifier with MERV 11 filtration	2-3 ton system Approx. 1,800 sq. feet	65 pints per day at 80°F, 60%RH	Smaller homes, condos, townhomes, crawlspaces, basements and attics	Compact size, ENERGY STAR® Rated, onboard control, intuitive wiring, easy access service panels, e-coated and coil, top or side-ducted exhaust	R-410A	110-120V, 5.2 amps, 60Hz, grounded	Width: 15.5" Height: 17.25" Length: 21" without collars Length: 28.5" with collars
 DR90A2000	90-pint dehumidifier with MERV 11 filtration	3-4 ton system Approx. 2,800 sq. feet	90 pints per day at 80°F, 60%RH	Single homes, multi-family homes and larger homes	ENERGY STAR® Rated, Built-in ventilation port, e-coated and coil, top or side-ducted exhaust	R-410A	110-120V, 6.3 amps, 60Hz, grounded	Width: 14.25" Height: 19.25" Length: 25.35" without collars Length: 32.35" with collars
 DR120A2000	120-pint dehumidifier with MERV 11 filtration	4-5 ton system Approx. 3,600 sq. feet	120 pints per day at 80°F, 60%RH	Larger homes, Light Commercial	ENERGY STAR® Rated, High capacity dehumidification, ventilation and air filtration e-coated and coil, top or side-ducted exhaust	R-410A	110-120V, 8.1 amps, 60Hz, grounded	Width: 14.25" Height: 21.25" Length: 25.35" without collars Length: 32.35" with collars

## Use these Honeywell controls with your TrueDRY™ dehumidification system

			
<b>Prestige® IAQ 2.0 Comfort System</b> <ul style="list-style-type: none"> <li>High-definition, full-color display</li> <li>RedLINK™ technology and accessories</li> <li>Sliding scale shows actual and desired humidity levels</li> <li>Customizable service reminders</li> </ul>	<b>VisionPRO® IAQ Comfort System</b> <ul style="list-style-type: none"> <li>All-in-one control in the living space</li> <li>Allows for control of all IAQ products</li> <li>Smart change/check reminders</li> </ul>	<b>TrueIAQ™ IAQ Control</b> <ul style="list-style-type: none"> <li>Manages dehumidification, humidification, and ventilation from a central point in home</li> <li>Advanced temperature and humidity sensing</li> <li>Automatically adjusts indoor settings based on outdoor conditions</li> </ul>	<b>Manual Dehumidification Control</b> <ul style="list-style-type: none"> <li>Manual humidity control</li> <li>Simple, easy-to-use dial</li> <li>Wired outdoor sensor available for heat pump systems</li> </ul>

### Replacement Filters - DH Series

Dehumidifier	Replacement Filter
DH65	50033205-009
DH90	50018994-001
DH150	50035445-020

### Dehumidifier Accessories - DR Series

Dehumidifier	Replacement Filter	Secondary Drain Pan
DR65A2000	50049537-005	PAN-26GA16X30
DR90A2000	50070171-002	PAN-26GA20X38
DR120A2000	50070171-002	PAN-26GA20X38

## Wall Mount Dehumidistats



Item #	Description
H46C1166	Honeywell Dehumidistat - White
CNT04888	J110-809W Ranco Dehumidistat - White



DEHUMIDIFICATION

# Ultravation® Advanced Oxidation Air Purifier

Professional Indoor Air Quality Products

Ultravation utilizes the science of nanotechnology to create healthier indoor air for your home



**ReFresh™** advanced oxidation utilizes two bands of UVC light and a special photocatalyst. It operates at the molecular level to stop odors and kill germs. It is compact yet powerful, able to treat the air circulating through the whole house.



Utilizing a proprietary formula, the Ultravation® ReFresh™ air purifying process brings the science of nanotechnology into indoor air quality improvement. Titanium Dioxide (TiO<sub>2</sub>) is used to promote an ionic discharge from the UVPhotoMAX™ metal oxidation chamber.

Ultravation's exclusive Dual-Band UV Emitter™, a high efficiency germicidal system, produces plasma wavelength energy in the key bandwidths of 185 nanometer(NM) and 254NM. This UV powered system operates on a molecular scale, creating an oxidation process that quickly reduces or eliminates even the most stubborn odors, as well as killing millions of airborne pathogens including common viral flu strains, bacteria and mold spores.



## Made in USA

All Ultravation air purification products are manufactured in our Vermont facilities. See a manufacturing video and learn more about our products at [Ultravation.com](http://Ultravation.com)



UVPhotoMAX installs on HVAC air ductwork at the outlet of the HVAC system.

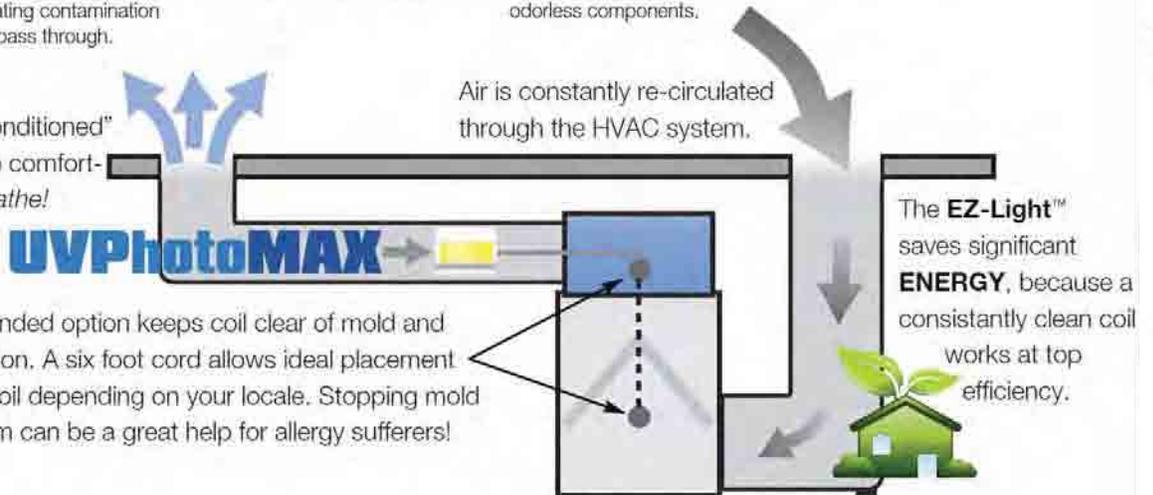
The oxidation chamber extends inside the air duct, creating a disinfection and oxidation zone that the circulating contamination must pass through.

Approaching airborne bacteria, viruses and allergens are exposed to a lethal dose of UVC light.

The process is completed as airborne odors and microorganisms are broken down into harmless and odorless components.

Actual photo of UVC light dispersion around the oxidation chamber.

With UVPhotoMAX™, your "conditioned" air will be better than just more comfortable—it will be healthier to breathe!



**EZ-Light™** recommended option keeps coil clear of mold and other bio-contamination. A six foot cord allows ideal placement above or below the coil depending on your locale. Stopping mold growth inside the HVAC system can be a great help for allergy sufferers!



Remote EZ-Light

Item #	Description	Power
PTX-1224F	UVPhotoMAX 24v System	24V
EZ-LIGHT12	12" T3 Remote UVC Lamp Kit for UVPhotoMAX	24V
EZ-LIGHT17	17" T3 Remote UVC Lamp Kit for UVPhotoMAX	24V

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# Germicidal UV Air & Surface Treatment Systems

## UltraMax Gold



**Convenience and Safety.**  
UVLampMonitor microprocessor control triggers audible and visual alarms to remind when to change UV lamps, or to notify if a lamp goes out.

**Status Display.**  
Confirms lamp(s) operation, and expiration status including 30 days advance notification.

**Patented\*\* T3™ UV lamp.**  
With safety connector system and unique quartz thermal lamp sleeve — a key to the superior UV performance of UltraMAX™

**Put UV where it is needed most.**  
Available mounting bracket directs UV to needed areas and blocks UV from sensitive areas.

**Energy efficiency and power.**  
State of the art ESPll electronic power supply runs cool and better controls lamps, saving energy

**Requires no extra space.**  
Compact 5" x 6 1/8" galvanized cabinet attaches to convenient flat surface nearby HVAC system

Item #	Description	Power
UMX-1202T	UMX 12" Dual Remote UV System	120/240/277
UMX-1902T	UMX 17" Dual Remote UV System	120/240/277

## 24v System w/ PCO Shield

### Top System Features

- 24VAC operation— Connects to power available on most HVAC systems
- Refresh™ exclusive formulation odor reduction
- Bracket for 100% internal lamp mounting
- Easy to optimize installation
- 6 ft. remote lamp cable
- Electronic power supply
- 10 year system warranty
- 5" wide power supply mounts conveniently near power source

### Stops Odors Too!

## Refresh™

### Photo catalytic odor reduction

It's a new technology that takes odors out of the air. Works better than any kind of spray or mask—it literally disintegrates odors!



Item #	Description	Power
UME-1224T-PCO	UME 12" Single Lamp Unit w/ PCO Shield	24V
UME-1924T-PCO	UME 17" Single Lamp Unit w/ PCO Shield	24V

## Economy 24v UV Light

### UltraMAX™ EZUV™ kit includes

- Magnetic mounting brackets and wiring
- UV viewport lens
- safety interlock system
- Premium UV-C Lamp
- 24VAC power supply
- UV light shield



**Ultravation® Electronic Power Supply** — outperforms by far old fashioned ballasts in efficiency and extending UV lamp life. Compact in size it easily mounts inside or outside the air handler.

**Lamp System Safety Interconnect** — prevents accidental exposure to UV when lamp is changed.

Item #	Description	Power
UMX2412-EZ-M	Economy 12" UV System	24V
UMX2419-EZ-M	Economy 17" UV System	24V

## Bulbs & Accessories

Item #	Description	Item #	Description
AS-IH-1001	12" Lamp for 1200T/1202T	LP-PP-0001	9" Lamp for UME1000/2000
AS-IH-1003	17" Lamp for 1900T/1902T	LP-PP-0002	16" Lamp for UME1036/2036
AS-IH-1013	12" PhotoMAX Dual Spectrum Lamp	LP-PP-0004	14" Eclipse Cleanser Bulb
94-004	Refresh VOC Odor Screen	94-010	Magnetic Mount Kit

### UVMatrix 4X: Disinfection for roof-top style HVAC systems.

The 4X-Series UV light system is a compact and NEMA 4X rated, so it is ready for outdoor exposure. It is lightweight and easy-to-install with no installation hardware to buy. The cabinet is fiberglass and weather-tight and its UltraMAX UV lamps have a 360° dispersion for maximized airstream disinfection.

All tables below are sizing guidelines only. The quantities and unit selections are recommendations to provide basic effective UV coverage for coil irradiation. For applications requiring specific levels of indoor air quality, please contact your



Trane Package Unit	Unit Description	UV System	Qty.
THC036 - THC092	3.0 - 7.5 Ton High Efficiency	UVMatrix 4x-233	1
THC102 - THC120	8.5 - 10.0 Ton High Efficiency	UVMatrix 4x-233	2
TSC036 - TSC120	3.0 - 10.0 Ton Standard Efficiency	UVMatrix 4x-233	1

### UVMatrix EZ: Single-Lamp Commercial UV System

The EZ system – which comes in three lamp lengths – can be used in hard-to-fit specialized HVAC or cooling equipment such as ice machines where controlling bio-growth on cooling coils is vital.

The EZ kit is supplied in component parts to maximize installation flexibility. It's magnetic mounting clips require no drilling and can be positioned virtually anywhere. The six foot cable is included to allow easy positioning of all components. The light shield keeps UV away from UV-sensitive areas.

The table below is a sizing guideline only.

Trane Package Unit	Unit Description	UV System	Qty.
TCD/TCH150	12.5 Ton Standard Efficiency	UVMatrix EZ-62	2
TCD/TCH151 - TCD/TCH301	12.5 - 25.0 Ton High Efficiency	UVMatrix EZ-62	4
TCD/TCH180 - TCD/TCH300	15.0 - 25.0 Standard Efficiency	UVMatrix EZ-62	4

Trane Air Handler	Unit Description	UV System	Qty.
TWE061E/D	5.0 Ton Single & Dual Circuit Coils	UVMatrix EZ-33	1
TWE090E/D - TWE120E/D	7.5 - 10.0 Ton Single & Dual Circuit Coils	UVMatrix EZ-33	2
TWE150E - TWE180E	12.5 - 15.0 Dual Circuit Coils	UVMatrix EZ-62	2
TWE240E - TWE300E	20.0 - 25.0 Ton Dual Circuit Coils	UVMatrix EZ-62	4

### UVMatrix SI-Series: Fully flexible to fit any HVAC configuration



The UVMatrix SI-Series uses UVC light to disinfect HVAC coils in large air handlers. The benefit is improved indoor air quality (IAQ) and clean, efficient HVAC operation with reduced maintenance and energy costs.

**Improve indoor air quality AND reduce HVAC energy and maintenance costs—at the same time!**

- Energy use is reduced because the HVAC coils are continually cleaned of mold and other biological contamination with the 24-7 application of UV-C light. The gradual reduction of efficiency between conventional cleaning is eliminated. The energy saved can far exceed energy used by the highly efficient UVMatrix system.
- HVAC Maintenance costs are reduced because UVMatrix SI continually cleans the coil reducing or eliminating the need for expensive and environmentally-detrimental chemical HVAC coil cleaning techniques

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# Honeywell UV Treatment Systems

## UV100A Coil Plus Ultraviolet Systems

### Return Air or Coil Treatment in the Same Unit!

- SnapLamp™ features replacement lamp handle with detachable replacement bulb, UC18W or UC36W, to make replacement more economical.
- UV-C light kills airborne bacteria or surface mold.
- UV lamp does not produce ozone.
- Easy lamp maintenance with quick, easy bulb replacement.
- Sealed unit design prevents accidental installer and homeowner contact with the voltage and with the ultraviolet rays.
- Safe design prevents lamps from lighting unless the base is correctly mounted on the HVAC duct.
- Lamp light indicator to safely view the lamp operation.
- Power cord that plugs into electrical outlet.
- Five-year limited warranty



#### Coil Plus Combination Surface and Air Treatment Systems

Item #	Description	Power	Bulb Wattage
UV100A1059	Coil Plus UV Air/Surface Treatment System	120v	36w
UV100A2008	Coil Plus UV Air/Surface Treatment System	240v	36w

## UV100E SmartLamp™ Ultraviolet Systems

### Get Even More with SmartLamp™

Get all of the Coil Plus features listed above, plus:

- SmartLamp™ Control Algorithm determines optimal UV lamp usage.
- SmartLamp™ LED shows bulb life and replacement.
- Reduced power consumption through extended bulb life.
- Automatic brownout and high temperature protection for UV lamps.
- Return air models supplied with integrated airflow sensor to monitor air flowing through ductwork.
- Dual-purpose reset button
  - Commands lamp on with a single one-second push
  - Resets internal lamp run-time timer after bulb replacement with extended five-second hold.



#### SmartLamp™ Air Treatment Systems

Item #	Description	Power	Bulb Wattage
UV100E1043	SmartLamp UV Air Treatment System	120v	18w
UV100E2009	SmartLamp Dual Bulb UV Air Treatment System	120v	36w

#### SmartLamp™ Surface (Coil) Treatment Systems

UV100E3007	SmartLamp UV Surface Treatment System	120v	36w
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## Bulbs & Accessories

#### Replacement SnapLamp Assembly (Bulb & Handle)

Item #	Description	Used With
UC100E1006	Replacement SnapLamp - 18w	UV100A1000, UV100E1043
UC100E1030	Replacement SnapLamp - 36w	UV100A1018, UV100A1059, UV100A2008, UV100E2009, UV100E3007

#### Replacement Bulb Only

UC18W1004	UV Bulb - 18w	UV100A1000, UV100E1043
UC36W1006	UV Bulb - 36w	UV100A1018, UV100A1059, UV100A2008, UV100E2009, UV100E3007

# TrueCLEAN™

## Enhanced Whole-House Air Cleaning Systems



### TrueCLEAN Delivers

TrueCLEAN offers an array of other benefits that make it the clear choice for you and your customers.

- **Easy to Maintain:** As simple to take care of as a media air cleaner
- **Common-Sense Interface:** LED light indicates when the system is filtering.
- **Easy to Power:** TrueCLEAN models run on the same voltage and can be powered right from the equipment, eliminating the need for separate power sources.
- **Universal Application:** Works with all gas, oil and electric forced air furnaces and air conditioning systems.
- **Quiet Operation:** Delivers maximum performance at a minimum noise level.
- **Built-In Safety:** Automatically disconnects power when the door is removed or routine system operation is interrupted.
- **5-Year Warranty:** Gives homeowners added peace of mind.

### Highest Performance With Virtually No Maintenance

Unlike other electronic air cleaners that require annual vacuuming and filter cell washing, maintaining TrueCLEAN is as simple as replacing the media filter every 6 to 12 months and lightly dusting the ionizing points with a paintbrush.

### Advanced 3-Step Filtration Technology

TrueCLEAN Enhanced Air Cleaners deliver cleaner air by taking a high-airflow media filter and enhancing it with electronic technology. The result is a MERV 15\* efficiency that actually improves over time.

Charge. Capture. Destroy. That's the basis of the three-step process that TrueCLEAN uses to capture and deactivate up to 99%\*\* of airborne particles and contaminants passing through the system. Here's how it works.

#### Step 1: Charge

Particles enter the TrueCLEAN system through an array of ionizing points, where they become electrically charged. The unique design charges all particles evenly.

#### Step 2: Capture

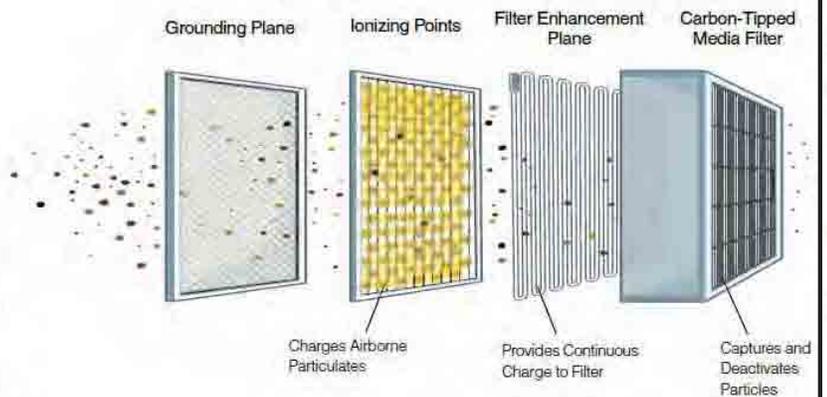
Next, particles travel into the media filter, where they're captured in the media fibers. A continuous charge ensures dirt is loaded 360 degrees around the filter fibers — not just on the face of the filter. This process captures more particles than a standard media filter and helps the filter last longer.

#### Step 3: Destroy

Once particles are captured, the charging strips on opposite sides of the carbon-tipped media filter continue to charge and deactivate particles. Particles are trapped and destroyed inside the filter, with deactivation rates of captured particles exceeding 99%\*\*.

#### STEP 1

#### STEPS 2 & 3



#### Air Handler Units

Part Number	Description	Replacement Filter
FH8000A1620	16 x 20, 230V	FR8000A1620
FH8000A2020	20 x 20, 230V	FR8000A2020
FH8000A2520	25 x 20, 230V	FR8000A2520

F I L T R A T I O N

# F300 Whole-House Electronic Air Cleaner

THE HIGH-PERFORMANCE, LOW-MAINTENANCE SOLUTION TO CLEANER AIR.

## Advanced Technology –

Places an electric charge to collect up to 99%\* of airborne particles.

## Highly Effective –

Captures both microscopic particles like dust and smoke in addition to larger contaminants like mold spores and pet dander.

## Low Maintenance –

No replacement needed. Requires only periodic washing of air cleaner cells.

## Superior Performance –

The F300 is up to 30 times more efficient at capturing airborne particles compared to a standard one-inch filter.

Part Numbers	Size	Postfilter
F300E1001	16x20	Yes
F300E1019	16x25	Yes
F300E1027	20x20	Yes
F300E1035	20x25	Yes



**Three-Stage Filtration** – Particles enter three layers of filtering, with optional exclusive electrostatic postfilter.



**Exclusive 10-year Clean Coil Guarantee™** – Gives you added peace of mind.

## Whole-House –

Cleans the air in all rooms throughout your home.

## Widely Compatible –

Works with all gas, oil and electric forced air furnaces and air conditioning systems.

## Easy to Upgrade –

Get even higher performance by adding an optional postfilter.

# F100 Whole-House Media Air Cleaner

CLEANER INDOOR AIR

## Highly Effective –

Deep-pleated media filters have a large surface area to capture more airborne particles. Captures both microscopic particles like dust and smoke in addition to larger contaminants like mold spores and pet dander.

**Replace Less Often** – Lasts up to four times longer than a standard one-inch furnace filter. Replace every 6-12 months versus monthly or quarterly changes.

## TrueHOME™ Customizable Label –

Include your contact information so that homeowners know exactly who to call for service or replacement parts.

**Simple Maintenance** – Simply open the door to replace the filter.

**Efficient Door Design** – The new F100 has an improved door gasket that may result in an average reduction of air loss through the door of 37%\*\*.



## Superior Performance –

The F100 is up to 14 times more effective than a standard one-inch filter, capturing up to 96% of airborne particles.

**Whole-House** – Cleans the air in all rooms throughout your home, using your HVAC system to distribute clean air.

**Widely Compatible** – Works with most gas, oil and electric forced air furnaces and air conditioning systems.

## 5 Year Warranty

**Easy to Upgrade** – The F100 can be easily converted to a higher-performance Electronic Air Cleaner.

GENERAL SPECIFICATIONS	
Part Number	Size
F100F2002	16x25
F100F2010	20x25
F100F2028	16x20
F100F2036	20x20
F100F2044	25x20
F100F2051	25x22

FILTRATION

# Honeywell Media Air Filters



## MERV 10 Filters

Item #	Description
FC100A1003	16" x 20" MERV 10 Filter
FC100A1029	16" x 25" MERV 10 Filter
FC100A1011	20" x 20" MERV 10 Filter
FC100A1037	20" x 25" MERV 10 Filter

## MERV 13 Filters

Item #	Description
FC200E1003	16" x 20" MERV 13 Filter
FC200E1029	16" x 25" MERV 13 Filter
FC200E1011	20" x 20" MERV 13 Filter
FC200E1037	20" x 25" MERV 13 Filter



# POPup™ Media Replacement Filter

**No Assembly Required** – No combs, pleat spacers or end caps. Filters literally pop-up ready to use, saving you time on the job.

**Application Flexibility** - Available in six universal sizes that fit Honeywell models and other brands.



**Highly Efficient** - Rated at MERV 11 efficiency.

**Collapsible Design** - Less chance of damage to filter.



**Homeowner Friendly** - Self-assembly feature helps generate easy replacement sales.

**Extra Filtration** - Unique design offers an additional 1" of filtration depth compared to standard cartridge replacement filters.



**Extra Storage**- Store up to five filters in the same space you used to store just one.

Item #	Description	Item #	Description
POPUP1620	16" x 20" POPup Filter	POPUP2200	201 Space-Gard Replacement
POPUP1625	16" x 25" POPup Filter	POPUP2400	401 Space-Gard Replacement
POPUP2020	20" x 20" POPup Filter		
POPUP2025	20" x 25" POPup Filter		

# AprilAire Space-Gard Replacement Filters

## Original "Expand-A-Pac" Filter

Item #	Description
FC2200A1009	201 Space-Gard Media
FC2400A1005	401 Space-Gard Media

## Cartridge Replacement for AprilAire 2200

Item #	Description
FC100A1037	MERV 10 AprilAire 2200 Replacement
FC200E1037	MERV 13 AprilAire 2200 Replacement



FILTRATION

# Trane Air Cleaners

## Trane CleanEffects™ Whole House Air Cleaner

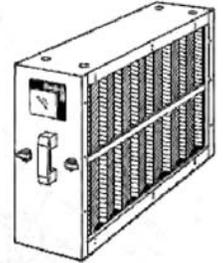
- Trane CleanEffects™ removes up to 99.98% of allergens from the filtered air
- Removes particles down to .1 micron in size
- Outperforms HEPA, and up to 100 times more effective than a standard 1" filter
- Constructed of heavy 18 gauge metal to protect the filter and internal electronics
- Power door provides easy access to internal components and features a filter status display as well as safety interlocks that automatically shut down the power when the door is opened for maintenance or cleaning
- Designed for flush fit on both sides and rear of equipment cabinet
- No transitions required on Trane CleanEffects™ applications
- Gaskets included with the air cleaner
- ComfortLink II™ communicating or 24 volt capability
- Base Limited Warranty 5-years
- Registered Limited Warranty 10-years



Model #	Airflow Range	Dimensions
TFD175CLAH000D	300-1200	7-1/2" x 17-1/2" x 21"
TFD215CLAH000D	300-1200	7-1/2" x 21-1/2" x 21"
TFD235CLAH000D	350-1600	7-1/2" x 23-1/2" x 21"
TFD260CLAH000D	400-2000	7-1/2" x 26" x 21"

## Trane Perfect Fit™ Media Filters

- Four sizes to flush fit bottom of Trane furnaces
- TFP175, TFM175 (17½") bottom return model can be used for a Perfect Fit™ side return on all furnace models
- Air Cleaners designed for flush fit on both sides and rear of equipment cabinet
- All service and access is from the front of the air cleaner
- Air-Tite™ Door construction eliminates air leaks, improves air quality and keeps operating costs low
- Gaskets included with the air cleaner



## Perfect Fit™ High Efficiency Air Cleaner With 5"

Model #	Airflow Range	Dimensions
TFM215B0AH0	300-1400	7-1/2" x 21-1/2" x 21"
TFM235B0AH0	300-1700	7-1/2" x 23-1/2" x 21"
TFM260B0AH0	400-2100	7-1/2" x 26" x 21"

# Trane PerfectFit™ Media Filters

## Air Handler Filters

Item #	Description
FLR06072	PerfectFit 5" Air Handler Filter - 21-1/2"
FLR06073	PerfectFit 5" Air Handler Filter - 23-1/2"
FLR06074	PerfectFit 5" Air Handler Filter - 26"
FLR06231	5" Expandable Filter for Air Handlers - 2 Pack

## Furnace Filters

Item #	Description
FLR06078	PerfectFit 5" Furnace Filter - 14-1/2"
FLR06069	PerfectFit 5" Furnace Filter - 17-1/2"
FLR06070	PerfectFit 5" Furnace Filter - 21"
FLR06071	PerfectFit 5" Furnace Filter - 24-1/2"
FLR06232	5" Expandable Filter for Furnaces - 2 Pack



FILTRATION

# Trion AirBear Replacement Filters



Item #	Description
AIRBEAR-20X20X5	0444603 AirBear Filter
AIRBEAR-20X25X5	0444604 AirBear Filter

# High-Performance Return Grille Filter

CLEANER AIR WITH LESS EFFORT.

**Superior Performance** – Captures up to 85% of particles passing through the HVAC system. Up to 10 times more effective than standard one-inch filters.

		FC40R RETURN GRILLE FILTER	STANDARD 1" FILTER
	MERV Rating	10	1-4
Particle Size	0.3 - 1 micron	30%	0-5%
	1 - 3 micron	61%	5-15%
	3 - 10 micron	86%	10-20%



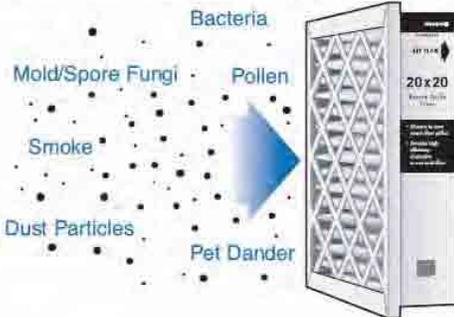
**Longer Lasting** – Three times the life of a standard one-inch filter. Only replace every 6-12 months, versus monthly or quarterly.

**Perfect Fit** – Fits most one-inch ceiling or wall mount return grilles with 18 sizes to choose from.

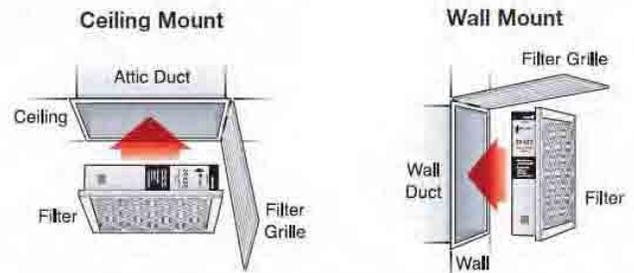
**Increases Efficiency** – Filtered air puts less strain on your heating and cooling equipment, allowing it to run more efficiently.

## TYPICAL HOUSEHOLD PARTICLES

FC40R air filters capture 15 times more 0.3-micron particles than typical one-inch fiberglass filters.



## INSTALLATION



### GENERAL SPECIFICATIONS

Return air filters fit most common brands of return grilles. Air filters are available in 5-pack cartons.

Size	Part #	Size	Part #
12" x 12" x 4"	FC40R1094	18" x 18" x 4"	FC40R1185
12" x 24" x 4"	FC40R1037	18" x 24" x 4"	FC40R1136
14" x 14" x 4"	FC40R1102	18" x 30" x 4"	FC40R1830
14" x 20" x 4"	FC40R1110	20" x 20" x 4"	FC40R1003
14" x 24" x 4"	FC40R1128	20" x 24" x 4"	FC40R1144
14" x 25" x 4"	FC40R1045	20" x 25" x 4"	FC40R1011
14" x 30" x 4"	FC40R1169	20" x 30" x 4"	FC40R1029
16" x 20" x 4"	FC40R1052	24" x 24" x 4"	FC40R1078
16" x 25" x 4"	FC40R1060	24" x 30" x 4"	FC40R1177

\*Based on independent lab testing

\*\*Equivalent rating based on initial efficiency. EACs do not qualify for a true MERV rating.

\*FC40R initial pressure drop of 0.12 in WC at 2 CFM per sq. inch.

F I L T R A T I O N

Item #	Description
FC40R1037	12x24 Return Grille Filter
FC40R1102	14x14 Return Grille Filter
FC40R1128	14x24 Return Grille Filter
FC40R1045	14x25 Return Grille Filter
FC40R1169	14x30 Return Grille Filter
FC40R1052	16x20 Return Grille Filter
FC40R1060	16x25 Return Grille Filter
FC40R1185	18x18 Return Grille Filter
FC40R1136	18x24 Return Grille Filter

Item #	Description
FC40R1830	18x30 Return Grille Filter
FC40R1003	20x20 Return Grille Filter
FC40R1144	20x24 Return Grille Filter
FC40R1011	20x25 Return Grille Filter
FC40R1029	20x30 Return Grille Filter
FC40R1078	24x24 Return Grille Filter
FC40R1094	24x25 Return Grille Filter
FC40R1110	24x27 Return Grille Filter
FC40R1177	24x30 Return Grille Filter

# PANEL FILTERS

## DISPOSABLE PANEL FILTERS



Disposable

### Disposables

- 1/2", 1", 2" thicknesses
- Fiberglass and synthetic media
- Pinch frame construction with scrim retainer
- 65 - 85% arrestance

### Tri-Plex® 85

- Industrial grade fiberglass media
- Die cut beverage board frame
- 75 - 80% arrestance



Tri-Plex 85



## PERMANENT METAL FILTERS

- Type HD - Steel construction
- Type HS - Aluminum construction
- Washable for repeated use
- Ideal for high moisture or high velocity conditions
- 60 - 75% arrestance



PL-24

### Fiberglass Medias

- Select from three grades
- 1", 2", 4" thicknesses
- 70 - 90% arrestance

## SPECIALTY MEDIAS AND FILTERS

Select from a variety of medias and filters for specialized equipment or applications.

- Lint and ink mist collection
- Replacements for AAF® PL-24
- Special application medias

See pg. 41 for additional information



### Permalast® Media

- Synthetic fiber media
- 1/2", 1", 2" thicknesses
- Rigid, self-supporting
- Washable
- 50 - 65% arrestance



### Foam Media

- 1/4", 1/2", 1" thicknesses
- Washable
- Operates at -50°F to 250° F
- 55 - 65% arrestance

## PLEATED FILTERS

Widest variety of pleated filters available.



See pg. 40-41 for additional information

MERV 8

### Type DP® 40/ DP Max Pleated Filters

- 1", 2", 4", 6" (only DP Max) thicknesses
- Die cut beverage board frame
- 100% synthetic media
- 15.0 ( DP40), 10.0 (DP Max) pleats per foot (2" depth)
- MERV 8 (Mechanical)



See pg. 40-41 for additional information

MERV 8

### XTREME+Plus™ Pleated Panel Filters

- MERV 8 (Mechanical)
- 100% synthetic media
- 16.4 (HC), 10.16 (SC) pleats per foot (2")
- 1", 2", 4" High capacity
- 1", 2" Standard capacity
- Self supported
- Damage resistant
- No metal
- Fully incinerable



See pg. 41 for additional information

MERV 13

### DP-g13een®

- 100% Synthetic media
- 1", 2", 4" thicknesses
- 17.5 pleats per foot (2")
- LEED/Green compliant
- MERV 13

### PowerGuard™ Filter

- 1", 2", 4" thicknesses
- Die cut beverage board frame
- 100% synthetic media
- 14.3 pleats per foot (2")
- 35 - 40% efficiency, MERV 11



MERV 11



MERV 8

### Type DPGT

Heavy Duty Pleated Filters

- Pleat stabilizer fingers
- 2", 4" thicknesses
- 30 - 35% efficiency, MERV 8

### Type DP-65, DP-85, DP-95

High Efficiency Pleated Filters for low velocity applications

- 2", 4" thicknesses
- Die cut beverage board frame
- Ultrafine fiberglass media
- Three efficiencies
- 50 - 55%, 75 - 80%, 80 - 85%
- 4" DP-65 provides highest efficiency available in a pleated filter operating at 500 FPM (50 - 55%)



### Type DPHT

High Temperature Pleated Filters

- Operates up to 500°F
- 1", 2", 4" thicknesses
- Aluminized steel frame and support grid
- Ultrafine fiberglass media
- 35 - 40% efficiency

### Mist-Defier

High Moisture Pleats

- Moisture resistant media and frame
- MERV 7

### Type DP4SA

Side Access Filters

- Same construction as standard Type DP
- 4" thickness
- 1" header on top and bottom is designed for side access systems
- 25 - 30% and 35 - 40% (PowerGuard) efficiencies

## EXTENDED SURFACE POCKET FILTERS



### Clean-Pak™ Pocket Filters

Dual-layer microfine synthetic media

- Moisture resistant
- Wide variety of pocket lengths and counts
- Fail safe mechanically staked pocket attachment
- Sonic welded pocket construction
- Five efficiencies -
  - MERV 14 (90 - 95%)
  - MERV 13 (80 - 85%)
  - MERV 11 (60 - 65%)
  - MERV 10 (50 - 55%)

### Venti-Pak® Pocket Filters

Ultrafine, high loft, microglass media

- Wide variety of pocket lengths and counts
- Fail safe mechanically staked pocket attachment
- Double lock stitched pocket formation
- Five efficiencies -
  - MERV 14 (90 - 95%)
  - MERV 13 (80 - 85%)
  - MERV 12 (60 - 65%)
  - MERV 11 (50 - 55%)
  - MERV 10 (40 - 45%)

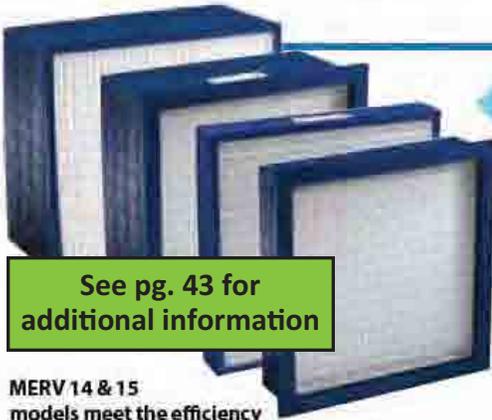


### Multi-Guard® Pocket Filters

Next generation, microfine synthetic media

- Electrostatically enhanced for higher initial efficiency
- Gradient density fiber structure for higher dust holding capacity
- Three efficiencies -
  - MERV 15 (90 - 95%)
  - MERV 13 (80 - 85%)
  - MERV 12 (60 - 65%)

## EXTENDED SURFACE RIGID CELL FILTERS



See pg. 43 for additional information

MERV 14 & 15 models meet the efficiency requirements required to contribute points toward a LEED/Green Building certification. Lower Energy Costs.

### Legacy®

- Low resistance
- High efficiency
- High dust holding capacity
- 4" MERV 11 & 14, 12" MERV 11 & 15
- 100% Synthetic media
- Moisture resistant
- Chemical resistant
- All plastic construction
- Fully incinerable
- Light weight



### Advantage®

- 2" Mini-Pleat design provides higher efficiency and dust holding
- MERV 16/14A in accordance with ASHRAE test method 52.2 - 2007, including Appendix J
- Optimal air flow ensures proper ventilation of occupied spaces
- Durable plastic frame
- No metal components; completely incinerable



See pg. 42 for additional information

### V-Force®

- All plastic construction
- 100% synthetic media
- Moisture and chemical resistant
- Fully incinerable
- Low resistance
- Three efficiencies - MERV 14 (90 - 95%) MERV 13 (80 - 85%) MERV 11 (50 - 55%)



### Vari-Plus® VP

- All plastic construction
- No metal components
- Dura-Tuff 100% synthetic media
- Fully incinerable
- Suitable for selected corrosive or chemical environments
- Three efficiencies - MERV 15 (90 - 95%) MERV 13 (80 - 85%) MERV 11 (50 - 55%)



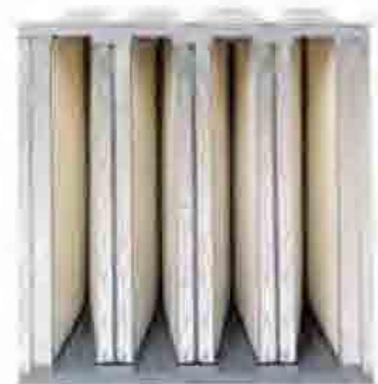
See pg. 42 for additional information

### Variflow®

- Extended Surface Rigid Cell Filters
- Ultrafine microglass paper media
  - Moisture resistant construction
  - Single header, double header, no header models
  - Metal and wood cell sides
  - Corrugated aluminum separators
  - High temperature models up to 900°F
  - Three efficiencies - MERV 14 (90 - 95%) MERV 13 (80 - 85%) MERV 11 (50 - 55%) MERV 10 (40 - 45%)

### Variflow® SC

Same construction as Variflow, except less media



### Vari-Plus®

High-capacity Extended Surface Mini-Pleat Filters

- Ultrafine microglass paper media
- Moisture resistant construction
- Continuous bead, mini-pleat adhesive separators
- V-bank assembly of mini-pleat media packs
- Large media area, low resistance
- Five efficiencies - 95% DOP, (MERV 16) 95%, (MERV 16) MERV 14 (90 - 95%) MERV 13 (80 - 85%) MERV 11 (50 - 55%)



### Vari-Pak®

Extended Surface Rigid Box Filters

- Ultrafine high loft microglass media
- Pleated construction with pleat stabilizers (fingers) on both sides
- Galvanized steel cell sides
- Box construction (no header) and header models
- Four efficiencies - MERV 14 (90 - 95%) MERV 13 (80 - 85%) MERV 11 (50 - 55%) MERV 10 (40 - 45%)

### Vari-Pak® Model S

Same construction as standard Vari-Pak filters except made with dual layer, microfine synthetic media.

### Vari-Plus® MC

Vari-Plus style mini-pleat media packs contained in galvanized steel cell sides.

# HEPA AND NEAR-HEPA FILTERS

## SEPARATOR STYLE FILTERS



### Microguard® LR

- 99%+ efficiency on 0.3 micrometer particles
- Available in High-Impact Plastic (HIPS) Available in single header or box styles or metal core sides
- E-pleat™ proprietary media
- Available in 4 sizes
- Standard dove-tail interlocking gasketing



### Microguard®

- Wood and metal construction
- Gasket seal and gel seal models
- Wide variety of cell side configurations
- Corrugated aluminum separators
- Three efficiencies - 99.97%, 99.99%, 99.999% on 0.3 micrometers

### Microguard® SC Series

- Same media and construction as standard
- Microguard, except fewer pleats. 99.97% efficiency

Patent #6,685,833



## MINI-PLEAT SEPARATOR STYLE FILTERS

### MicroPleat™

- Ultrafine microglass paper media
- Anodized extruded aluminum cell sides
- Gasket seal, gel seal and knife edge models
- Continuous bead mini-pleat adhesive separators
- Five efficiencies - 99.97%, 99.99%, 99.999% on 0.3 micrometers; 99.999%, 99.9995% on 0.12 micrometers



## HIGH CAPACITY HEPA FILTERS



### Microguard® Separator Style

- 500 FPM @ 1.35" W.G.
- 99.97%, 99.99% efficiencies

### Micro-V 2000 Mini-Pleat Style

- 500 FPM @ 1.2" W.G.
- 99.97%, 99.99% efficiencies @ 500 FPM
- 99.999% efficiency @ 400 FPM

### Micro-V 2400

- 600 FPM @ 1.35" W.G.
- 99.97% efficiency



## CLEANROOM PRODUCTS



### Disposable Ducted Ceiling Modules

- Anodized extruded aluminum construction
- 2' x 2' and 2' x 4' sizes
- Low profile design - 5" deep. Fits into T-bar ceiling grid
- Adjustable diffuser/damper
- Five efficiencies - 99.97%, 99.99%, 99.999% on .3 micrometers; 99.999%, 99.9995% on .12 micrometers



### Micro+Plus Room Side Replaceable Ceiling Modules

- Permanent housing with room side replaceable HEPA filter
- Ducted inlet design
- Low Profile - 7" deep

**RING PANELS, SELF-SUPPORTED  
POCKET FILTERS & POLYESTER MEDIA**



**RING PANELS, LINKS, SLIP-ONS**

**The Activator™ Series  
Select from 2-ply and 3-ply models**

- 2-Ply - MERV 6
- 3-Ply - MERV 7
- Self sealing, no latches required
- Tackified media
- Made from tough, polyester fibers

*Slip-On Panel*



*3-ply, MERV 7*

*2-ply, MERV 6*



**StreamLine™ Polyester Medias**

- Select from three choices of medias - 1/2", 1", 2" thicknesses
- Made from multi-denier, recycled polyester fibers
- Tackifier increases particle retention
- 85 - 95% arrestance

See pg. 41 for additional information



**Ultra II**

- Air Flow 150 FPM
- Initial Static .05" W.G.
- Average Paint Spray Removal Efficiency 99.70%
- Pads and Blankets cut to size
- Bags available in two and three pocket models

**SynPak**

- Three ply media construction
- 15" deep, 2, 3 or 4 pockets
- MERV 8 (35 - 40%) efficiency



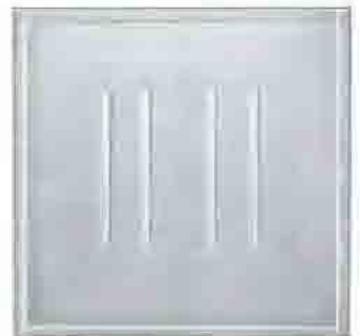
**Bio-Pure® Polyester Media**

- 1/2", 1", 2" thicknesses
- Made from recycled polyester fibers
- Available in pads and bulk rolls
- Tackified media
- 85 - 90% arrestance



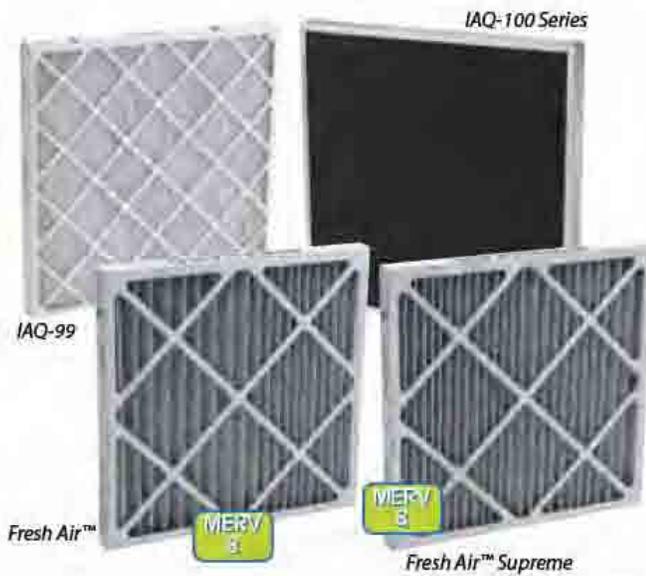
**Bio-Pure® Ring Panels and Links**

- 2-ply media construction
- Self-sealing, no latches required
- Tackified media
- MERV 6 (85 - 90%) arrestance



F I L T R A T I O N

## GAS PHASE ADSORBERS



### Fresh Air™

- Combination 30 - 35%, MERV 8 pleated prefilter with activated carbon
- Die cut beverage board frame
- 1", 2", 4" thicknesses
- Self-supported media, no metal

### Fresh Air™ Supreme

- Chemically enhanced carbon media
- Removes wider range of odors than standard activated carbon
- 30 - 35% efficiency, MERV 8
- Self-supported media, no metal

### IAQ-99

- Combination polyester prefilter with bonded carbon fibers
- Available with die cut beverage board frame or pad design
- 1", 2" thicknesses

### IAQ-100 Series

- Select from activated carbon, potassium permanganate or blended media
- Honeycomb carbon loading
- 25%, 50%, 75% and 100% fill
- Steel frame
- 3/8", 1", 2" thicknesses

### IAQ-108

- Self-sealing panel construction
- Combination polyester prefilter with bonded carbon fibers

## EXTENDED SURFACE FILTERS

### Vari-Pure®

High Capacity Activated Carbon Filters

- Select from activated carbon, impregnated carbon, potassium permanganate or blended media
- Effective on wide variety of gases and odors
- Vari-Sock afterfilter prevents carbon dusting downstream
- 12" deep



### Vari-Klean®

Ultra High Efficiency Carbon Adsorber

- Pleated media design increases carbon content
- Offers high first pass removal efficiency



## REPLACEMENT TRAYS AND ELEMENTS

Available with activated carbon, potassium permanganate or blended media

### Refillable Carbon Trays

- Wide variety of sizes to fit various manufacturers' housings
- Cold rolled steel frame

### AG-12 Element

- Fits Purafil and Flanders housings
- Refillable design
- Contains 30 pounds of carbon

### AG-18 Element

- Fits AG-22 and Purafil PC-22 housings
- Refillable and disposable models
- Contains 30 pounds of carbon

## CARBON FILTER HOUSINGS



### AG-2000 Front Access Housing

- 14 gauge cold rolled steel construction
- Easily removable access grid
- Contains 90 pounds of carbon (10 trays)



Side Access Housing

### Side Access Housings

- 16 gauge steel construction
- Adaptor flanges to match up with air handling units
- 2" prefilter or after filter track

### AG-14 Carbon Housing

- 16 gauge cold rolled steel construction
- Holds four IAQ-100 carbon panels
- Built-in prefilter and final filter tracks
- Contains 48 pounds of carbon

### AG-22 Carbon Housing

- 16 gauge cold rolled steel construction
- Holds four AG-18 carbon elements
- Contains 72 pounds of carbon

## AUTOMATIC ROLL FILTER MEDIAS

Choose from several styles of media to fit major brands of auto roll equipment, including:

Airguard, AAF®, Air Maze, BLC, Cambridge, Carrier®, Commercial, Continental, Farr®, MSA, Trane®.

### FIBERGLASS MEDIAS

- Progressive density media construction
- 2-1/2" thick
- Scrim mesh netting backing for high tensile strength
- Adhesive coated for high dust holding capacity
- 70 - 90% arrestance

### SYNTHETIC MEDIAS

- 1/2", 1" thicknesses
- Scrim mesh netting backing for high tensile strength
- Dry and tackified medias
- 70 - 90% arrestance



## INTERNALLY SUPPORTED FILTERS

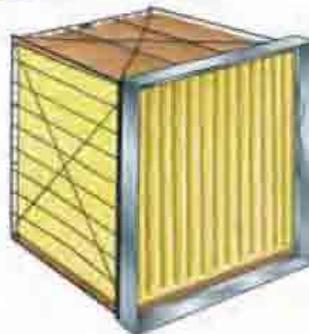
Designed for use with compatible wire basket retainers.



### Series AG Filter Elements

For use in Farr® HP Series systems

- Deep pleated media design
- Collapsible for compact shipping and storage
- Three depths - 8", 12", 24"
- Four efficiencies -  
MERV 14 (90 - 95%)  
MERV 13 (80 - 85%)  
MERV 11 (60 - 65%)  
MERV 7 (25 - 30%)



# ANTIMICROBIAL TREATED FILTERS

For improved IAQ applications to inhibit growth of microorganisms on the filters.

**Bio-Pure®**...no other manufacturer has a broader line of antimicrobial treated filters than Airguard. Life cycle tests verify continued effectiveness over the life of the filter.



## Bio-Pure® High Efficiency Rigid Cell Supported Pleat Filters

- Ultrafine microglass paper media
- 90 - 95% efficiency
- Corrugated aluminum separators



## Bio-Pure® Pleated Panel Filters

- 1", 2", 4" thicknesses
- Available with 14.3 and 10 pleats per foot (2")
- MERV 7 (25 - 30%) efficiency



## Bio-Pure® High Efficiency Extended Surface Pocket Filters

- Dual layer microfine synthetic media
- Wide variety of pocket lengths and counts
- Double lock stitched pocket formation
- Fail safe mechanically staked pocket attachment
- 2 efficiencies
- MERV 14 (90 - 95%)
- MERV 13 (80 - 85%)



## Bio-Pure® High Efficiency Rigid Cell Box Filters

- Dual layer microfine synthetic media
- Pleated media design with pleat stabilizers on both sides
- 2 efficiencies
- MERV 14 (90 - 95%)
- MERV 13 (80 - 85%)

# PAINT SPRAY BOOTH FILTERS

Complete line of air filters for paint spray booth applications.



## INTAKE PANEL FILTERS

- Self-sealing - No latches required
- Internal wire support frame
- Tackified for high particle retention
- 90 - 95% arrestance

Activator Series - 2-Ply or 3-Ply media construction

Activator Series



ATI-600



## DIFFUSION MAX

### ATI-600

- Dual layer media construction with scrim backing
- Internal wire support frame



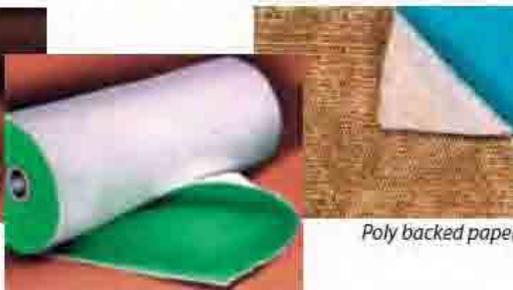
ATI-300

### ATI-300

- Dual layer media construction with scrim backing
- Internal wire support frame



Type AG/FG fiberglass



Stackguard



Poly backed paper

## PAINT ARRESTOR MEDIAS

Select from a wide variety of paint overspray collection medias

- Fiberglass
- Stackguard® polyester backed fiberglass
- Type AG/PS polyester
- Expanded paper
- Polyester backed expanded paper



# REPLACEMENT FILTERS FOR TURBOMACHINERY AIR INTAKE SYSTEMS

## FINAL FILTERS FOR BARRIER FILTER SYSTEMS

### PREFILTERS FOR BARRIER FILTER SYSTEMS



#### Type DPGT Pleated Panel Filters

- 100% synthetic fiber media
- Die cut beverage board frame
- Pleat stabilizer fingers
- MERV 8 (30 - 35%) efficiency

#### Filter Media Pads

- Fiberglass (2", 4")
- Synthetic (2")



#### Vari-Plus® VP

- All plastic construction
- No metal components
- No rivets, screws, faceguards or cross bars
- Dura-Tuff 100% synthetic media resists tearing, abrasion
- Chemical and corrosion resistant
- Fully incinerable
- V-bank assembly of mini-pleat media packs
- Available with Vari-Pad direct mount pocket style prefilter
- 2 efficiencies
  - MERV 15 (90 - 95%)
  - MERV 11 (60 - 65%)



#### Duraflow®

- Ultrafine microglass paper media
- Corrugated aluminum separators
- Galvanized steel construction
- Faceguards on both sides
- 90 - 95%, 60 - 65% efficiencies

#### Vari-Pak® GT

- High loft fiberglass or synthetic media
- Expanded metal pleat support
- Pleat support stabilizers on both sides
- 90 - 95%, 80 - 85%, 60 - 65% on both sides
- 90 - 95%, 80 - 85%, 60 - 65% efficiencies

## HOLDING FRAMES & LATCHES



Uni-Lok® Filter Holding Frame

### Uni-Lok® Filter Holding Frames

- 16 gauge galvanized steel
- Pre-punched mounting holes
- Factory applied gaskets
- Wide variety of latches to hold all types and sizes of filters

### Type AG-8 Filter Holding Frames

- Replacement for Farr® Type 8 frames and latches

### Type HDS HEPA Holding Frame

- Creates high integrity seal for HEPA installations
- 16 gauge aluminized steel construction
- Two depths - holds 5-7/8" or 11-1/2" deep filters
- Spring loaded clamping bolt



### Service Frame

- Holds filter media pads
- Sized to fit inside Uni-Lok, Type AG-8 or other manufacturers' brands of filter holding frames
- 22 gauge galvanized steel frame
- 1/2", 1", 2" thicknesses
- Wire support grid - both sides

## RESIDENTIAL AIR FILTRATION PRODUCTS

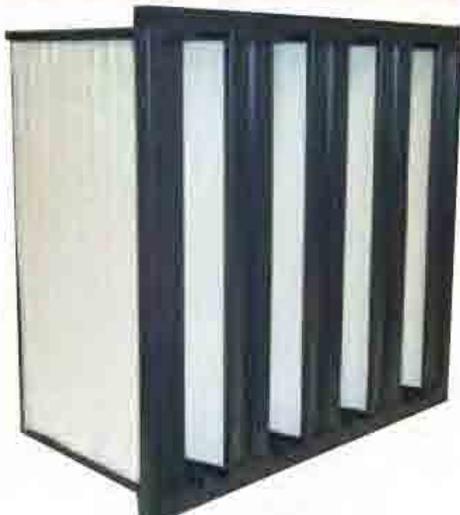
### REPLACEMENT FILTERS FOR RESIDENTIAL AIR CLEANERS

- Trion Air Bear (MERV 8)
- Honeywell (MERV 8)
- Sizes to fit all major models

See pg. 26-27 for additional information



## DIRECT AIR VARIPLUS® AG AGRICULTURE PRODUCTS



### HIGH EFFICIENCY, HIGH CAPACITY, MINI-PLEATED PRRS AND MHYO CONTAINMENT AIR FILTER

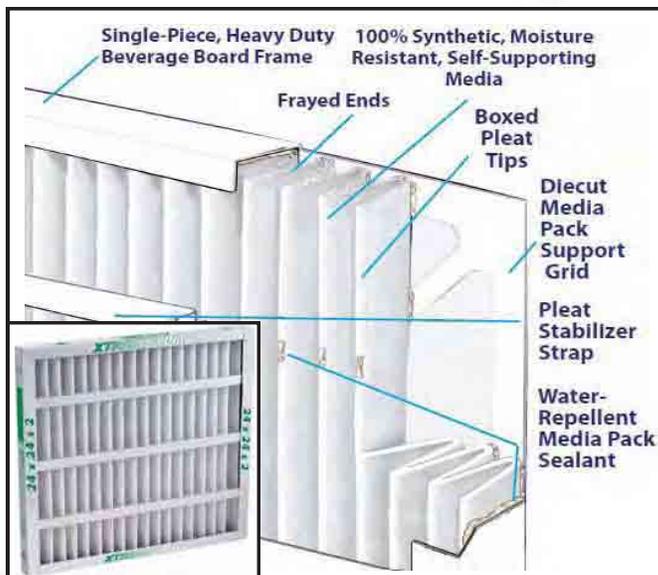
#### Vari+Plus® AG

- Significantly reduces the aerosol transmission of PRRS virus and MHYO bacteria
- Log 6 removal performance/MERV 15
- 100% synthetic media resistant to moist, corrosive environments
- Delivers more airflow than competitor products

# MERV 8 Standard-Capacity 1" Pleated Filters

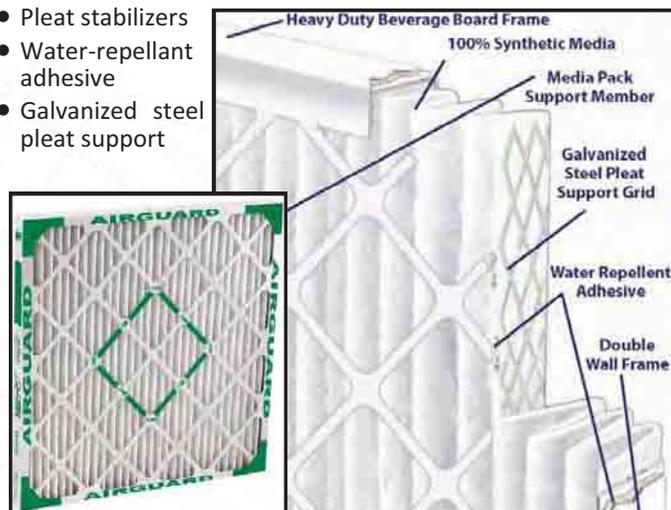
## XTREME+™ MERV 8 Standard Sizes

- Standard-Capacity MERV 8, MERV-A 8-A
- New automated process delivers consistency and durability
- Durable, self-supporting synthetic media
- No metal, fully incinerable
- Die cut frame with interlocking corners for added strength



## DP Max MERV 8 Specialty Sizes

- Heavy-duty moisture-resistant beverage board frame
- Two-piece frame construction with double-wall thickness
- Pleat stabilizers
- Water-repellant adhesive
- Galvanized steel pleat support



## 1" DP Max Exact Sizes

Exact cut filters fit less common applications. The length and width of these filters are cut exactly to match the dimensions of the part number. For example, the actual dimensions of a 10" x 16" x 1" exact cut filter is 10" x 16" x 3/4".

Item #	Manufacturer #	Case Qty.
10X16X1	0444100034 DP MAX PLEAT	12
10X18X1	0444100037 DP MAX PLEAT	12
10X22X1	0444100047 DP MAX PLEAT	12
10X25X1	0444100053 DP MAX PLEAT	12
12X16X1	0444100217 DP MAX PLEAT	12
12X18X1	0444100222 DP MAX PLEAT	12
12X30X1	0444100243 DP MAX PLEAT	12
14X18X1	0444100410 DP MAX PLEAT	12
14X22X1	0444100418 DP MAX PLEAT	12
16X21X1	0444100615 DP MAX PLEAT	12
16X22X1	0444100619 DP MAX PLEAT	12
17X21X1	0444100720 DP MAX PLEAT	12
18X30X1	0444100820 DP MAX PLEAT	12
18X36X1	0445100471 DP MAX PLEAT	12
19X22X1	0444100906 DP MAX PLEAT	12
20X21X1	0444100945 DP MAX PLEAT	12
20X28X1	0444100965 DP MAX PLEAT	12
20X36X1	0445100520 DP MAX PLEAT	12
21X21X1	0444101043 DP MAX PLEAT	12
21X23X1	0444101049 DP MAX PLEAT	12
22X24X1	0444101083 DP MAX PLEAT	12
24X28X1	0444101162 DP MAX PLEAT	12
25X30X1	0444101186 DP MAX PLEAT	12
28X30X1	0444101233 DP MAX PLEAT	12
30X32X1	0445100644 DP MAX PLEAT	12

## 1" XTREME+ Standard Sizes

Item # (Nominal Size)	Actual Dimensions	Case Qty.
10X10X1	9-1/2 x 9-1/2 x 3/4	12
10X20X1	9-1/2 x 19-1/2 x 3/4	12
10X24X1	9-3/8 x 23-3/8 x 3/4	12
12X12X1	11-3/4 x 11-3/4 x 3/4	12
12X20X1	11-1/2 x 19-1/2 x 3/4	12
12X24X1	11-3/8 x 23-3/8 x 3/4	12
14X14X1	13-3/4 x 13-3/4 x 3/4	12
14X20X1	13-1/2 x 19-1/2 x 3/4	12
14X24X1	13-3/8 x 23-3/8 x 3/4	12
14X25X1	13-1/2 x 24-1/2 x 3/4	12
14X30X1	13-3/4 x 29-3/4 x 3/4	12
15X30X1	14-3/4 x 29-3/4 x 3/4	12
15X20X1	14-1/2 x 19-1/2 x 3/4	12
16X16X1	15-1/2 x 15-1/2 x 3/4	12
16X20X1	15-1/2 x 19-1/2 x 3/4	12
16X24X1	15-3/8 x 23-3/8 x 3/4	12
16X25X1	15-1/2 x 24-1/2 x 3/4	12
16X30X1	15-3/4 x 29-3/4 x 3/4	12
18X18X1	17-3/4 x 17-3/4 x 3/4	12
18X20X1	17-3/8 x 19-1/2 x 3/4	12
18X24X1	17-3/8 x 23-3/8 x 3/4	12
18X25X1	17-1/2 x 24-1/2 x 3/4	12
20X20X1	19-1/2 x 19-1/2 x 3/4	12
20X22X1	19-3/4 x 21-3/4 x 3/4	12
20X24X1	19-3/8 x 23-3/8 x 3/4	12
20X25X1	19-1/2 x 24-1/2 x 3/4	12
20X30X1	19-1/2 x 29-1/2 x 3/4	12
22X22X1	21-3/4 x 21-3/4 x 3/4	12
24X24X1	23-3/8 x 23-3/8 x 3/4	12
24X30X1	23-3/4 x 29-3/4 x 3/4	12
25X25X1	24-1/2 x 24-1/2 x 3/4	12

## 1" Specialty Undercut Grille Sizes

Item #	Actual Dimensions	Case Qty.
12X12X1G	11-1/8 x 11-3/8 x 3/4	12
18X24X1G	17-1/8 x 23-3/8 x 3/4	12
20X24X1G	19-1/8 x 23-3/8 x 3/4	12
22X22X1G	21-1/8 x 21-3/8 x 3/4	12

We carry additional sizes and styles. If you don't see what you need, give us a call.

## 2" XTREME+ Standard Sizes

Item #	Actual Dimensions	Case Qty.
10X20X2	9-1/2 x 19-1/2 x 1-3/4	12
12X20X2	11-1/2 x 19-1/2 x 1-3/4	12
12X24X2	11-3/8 x 23-3/8 x 1-3/4	12
14X20X2	13-1/2 x 19-1/2 x 1-3/4	12
14X25X2	13-1/2 x 24-1/2 x 1-3/4	12
15X20X2	14-1/2 x 19-1/2 x 1-3/4	12
16X16X2	15-3/4 x 15-3/4 x 1-3/4	12
16X20X2	15-1/2 x 19-1/2 x 1-3/4	12
16X24X2	15-3/8 x 23-3/8 x 1-3/4	12
16X25X2	15-1/2 x 24-1/2 x 1-3/4	12
18X18X2	17-3/4 x 17-3/4 x 1-3/4	12
18X20X2	17-1/2 x 19-1/2 x 1-3/4	12
18X24X2	17-3/8 x 23-3/8 x 1-3/4	12
18X25X2	17-1/2 x 24-1/2 x 1-3/4	12
20X20X2	19-1/2 x 19-1/2 x 1-3/4	12
20X24X2	19-3/8 x 23-3/8 x 1-3/4	12
20X25X2	19-1/2 x 24-1/2 x 1-3/4	12
20X30X2	19-1/2 x 29-1/2 x 1-3/4	12
24X24X2	23-3/8 x 23-3/8 x 1-3/4	12
25X25X2	24-1/2 x 24-1/2 x 1-3/4	12

## 4" XTREME+ Standard Sizes

Item # (Nominal Size)	Actual Dimensions	Case Qty.
12X24X4	11-3/8 x 23-3/8 x 3-3/4	6
16X20X4	15-1/2 x 19-1/2 x 3-3/4	6
16X25X4	15-1/2 x 24-1/2 x 3-3/4	6
18X24X4	17-3/8 x 23-3/8 x 3-3/4	6
20X20X4	19-1/2 x 19-1/2 x 3-3/4	6
20X24X4	19-3/8 x 23-3/8 x 3-3/4	6
20X25X4	19-1/2 x 24-1/2 x 3-3/4	6
24X24X4	23-3/8 x 23-3/8 x 3-3/4	6

## Roll Media

Item #	Description
1T20	1" x 20" x 90' Blue Poly Media
1T25	1" x 25" x 90' Blue Poly Media
2T20	2" x 20" x 45' Blue Poly Media
2T25	2" x 25" x 45' Blue Poly Media
HHB25130	25" White Hog Hair Style Media
1OR20	1" x 20" x 90' Orange Tacky Media
1OR25	1" x 25" x 90' Orange Tacky Media
2OR20	2" x 20" x 45' Orange Tacky Media
2OR25	2" x 25" x 45' Orange Tacky Media



## DPGreen MERV 13 Pleated Filter

- Maintains MERV 13 Performance in a full ASHRAE 52.2-2007 independent test as required by Leadership in Energy and Environmental Design (LEED)
- Meets LEED Green Building criteria for minimum efficiency
- Provides points toward LEED certification
- May qualify as a sustainable component for a LEED/Green Building Initiative

### 1" DP Green MERV 13 Filters

Item #	Nominal Size	Actual Dimensions	Case Qty.
0446109	10 x 10 x 1	9 1/2 x 9 1/2 x 3/4	12
0446177	10 x 20 x 1	9 1/2 x 19 1/2 x 3/4	12
0446117	10 x 24 x 1	9-3/8 x 23-3/8 x 3/4	12
0446122	12 x 12 x 1	11-3/4 x 11-3/4 x 3/4	12
0446123	12 x 16 x 1	11-1/2 x 15-3/4 x 3/4	12
0446120	12 x 20 x 1	11 1/2 x 19 1/2 x 3/4	12
0446110	12 x 24 x 1	11 3/8 x 23 3/8 x 3/4	12
0446133	14 x 14 x 1	13-3/4 x 13-3/4 x 3/4	12
0446139	14 x 20 x 1	13 1/2 x 19 1/2 x 3/4	12
0446159	14 x 24 x 1	13-3/8 x 23-3/8 x 3/4	12
0446141	14 x 25 x 1	13 1/2 x 24 1/2 x 3/4	12
0446137	14 x 30 x 1*	13-3/4 x 29-3/4 x 3/4	12
0446145	15 x 20 x 1	14 1/2 x 19 1/2 x 3/4	12
0446140	15 x 30 x 1*	14-3/4 x 29-3/4 x 3/4	12
0446143	16 x 16 x 1	15-1/2 x 15-1/2 x 3/4	12
0446101	16 x 20 x 1	15 1/2 x 19 1/2 x 3/4	12
0446116	16 x 24 x 1	15-3/8 x 23-3/8 x 3/4	12
0446102	16 x 25 x 1	15 1/2 x 24 1/2 x 3/4	12
0446146	16 x 30 x 1*	15-3/4 x 29-3/4 x 3/4	12
0446163	18 x 18 x 1	17-3/4 x 14-3/4 x 3/4	12
0446180	18 x 20 x 1	17 1/2 x 19 1/2 x 3/4	12
0446182	18 x 22 x 1	17-3/8 x 21-1/2 x 3/4	12
0446112	18 x 24 x 1	17 3/8 x 23 3/8 x 3/4	12
0446185	18 x 25 x 1	17 1/2 x 24 1/2 x 3/4	12
0446103	20 x 20 x 1	19 1/2 x 19 1/2 x 3/4	12
0446166	20 x 22 x 1	19-3/4 x 21-3/4 x 3/4	12
0446111	20 x 24 x 1	19 3/8 x 23 3/8 x 3/4	12
0446104	20 x 25 x 1	19 1/2 x 24 1/2 x 3/4	12
0446151	22 x 22 x 1	21-3/4 x 21-3/4 x 3/4	12
0446105	24 x 24 x 1	23 3/8 x 23 3/8 x 3/4	12
0446153	24 x 30 x 1*	23-3/4 x 29-3/4 x 3/4	12
0446125	25 x 25 x 1	24 1/2 x 24 1/2 x 3/4	12

### 2" DP Green MERV 13 Filters

Item #	Nominal Size	Actual Dimensions	Case Qty.
0446210	12 x 24 x 2	11 3/8 x 23 3/8 x 1 3/4	12
0446239	14 x 20 x 2	13 1/2 x 19 1/2 x 1 3/4	12
0446241	14 x 25 x 2	13 1/2 x 24 1/2 x 1 3/4	12
0446245	15 x 20 x 2	14 1/2 x 19 1/2 x 1 3/4	12
0446201	16 x 20 x 2	15 1/2 x 19 1/2 x 1 3/4	12
0446216	16 x 24 x 2	15 3/8 x 23 3/8 x 1 3/4	12
0446202	16 x 25 x 2	15 1/2 x 24 1/2 x 1 3/4	12
0446280	18 x 20 x 2	17 1/2 x 19 1/2 x 1 3/4	12
0446212	18 x 24 x 2	17 3/8 x 23 3/8 x 1 3/4	12
0446285	18 x 25 x 2	17 1/2 x 24 1/2 x 1 3/4	12
0446203	20 x 20 x 2	19 1/2 x 19 1/2 x 1 3/4	12
0446211	20 x 24 x 2	19 3/8 x 23 3/8 x 1 3/4	12
0446204	20 x 25 x 2	19 1/2 x 24 1/2 x 1 3/4	12
0446232	20 x 30 x 2*	19 1/2 x 29 1/2 x 1 3/4	12
0446205	24 x 24 x 2	23 3/8 x 23 3/8 x 1 3/4	12
0446225	25 x 25 x 2	24 1/2 x 24 1/2 x 1 3/4	12

### 4" DP Green MERV 13 Filters

Item #	Nominal Size	Actual Dimensions	Case Qty.
0446410	12 x 24 x 4	11 3/8 x 23 3/8 x 3 3/4	6
0446401	16 x 20 x 4	15 1/2 x 19 1/2 x 3 3/4	6
0446402	16 x 25 x 4	15 1/2 x 24 1/2 x 3 3/4	6
0446412	18 x 24 x 4	17 3/8 x 23 3/8 x 3 3/4	6
0446403	20 x 20 x 4	19 1/2 x 19 1/2 x 3 3/4	6
0446411	20 x 24 x 4	19 3/8 x 23 3/8 x 3 3/4	6
0446404	20 x 25 x 4	19 1/2 x 24 1/2 x 3 3/4	6
0446405	24 x 24 x 4	23 3/8 x 23 3/8 x 3 3/4	6

\* = Reverse Pleat Construction

# V-FORCE® High Efficiency Extended Surface Mini-Pleat Filters

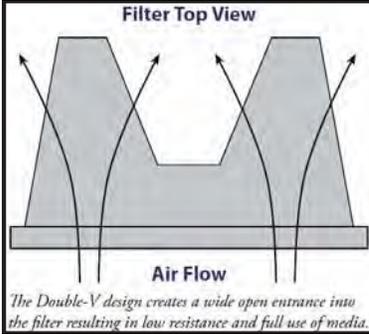
V-FORCE filters offer an excellent option for applications currently using rigid cell style extended surface filters. They are a good replacement for corrugated separator style or supported pleat style rigids.

**All Plastic Construction • 100% Synthetic Media • Fully Incinerable • Light Weight  
Moisture and Chemical Resistant • Rigid Cell Design • Low Resistance**



## Economical Upgrade for Other Rigid Cell Filters

V-FORCE filters are an ideal upgrade for other styles of rigid cell filters, including corrugated separator style and supported pleat style. The Dynamic Double-V design provides an unbeatable combination of low resistance, high dust holding capacity and competitive price compared to these products.



## Dynamic Double-V Design Creates Low Resistance

The Double-V design presents a wide open entrance into the filter allowing air to freely enter and exit at very low resistance. The mini pleat media packs are set at an angle to the direction of the incoming air to direct air flow through the pleat packs and out the back side with minimum restriction.

### V-FORCE® 12" Single Header Filter

Nominal Size	MERV 11 Item #	MERV 13 Item #	MERV 14 Item #	Actual Dimensions
12x24x12	1128603	1128803	1128903	11-3/8 x 23-3/8 x 11-1/2
20x20x12	1128613	1128813	1128913	19-3/8 x 19-3/8 x 11-1/2
20x24x12	1128615	1128815	1128915	19-3/8 x 23-3/8 x 11-1/2
24x24x12	1128604	1128804	1128904	23-3/8 x 23-3/8 x 11-1/2

# Variflow® Type SC Extended Surface Air Filters

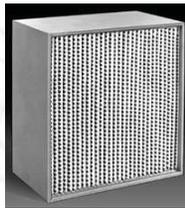
SC Variflow filters are designed for high and medium efficiency air filtration in all types of commercial, industrial and institutional HVAC installations.

- Three efficiencies - 90-95% (MERV 14) / 80-85% (MERV 13) / 60-65% (MERV 11)
- Compact design saves valuable in-line duct space
- Ideal for variable volume systems and difficult operating conditions
- Water resistant microglass paper media
- Available with antimicrobial treated media
- 6" / 12" Depths
- Eight sizes



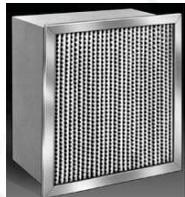
## Variflow-SC® 12" Box Style (No Header)

Nominal Size	MERV 11 Item #	MERV 13 Item #	MERV 14 Item #	Actual Dimensions
12x24x12	2604476	2802844	2901863	11-3/8 x 23-3/8 x 11-1/2
20x20x12	2604071	2807151	2902949	19-3/8 x 19-3/8 x 11-1/2
20x24x12	2605637	2802843	2906879	19-3/8 x 23-3/8 x 11-1/2
24x24x12	2602118	2800373	2900632	23-3/8 x 23-3/8 x 11-1/2



## Variflow-SC® 12" Single Header

Nominal Size	MERV 11 Item #	MERV 13 Item #	MERV 14 Item #	Actual Dimensions
12x24x12	2600512	2800179	2900879	11-3/8 x 23-3/8 x 11-1/2
20x20x12	2600516	2801855	2901083	19-3/8 x 19-3/8 x 11-1/2
20x24x12	2601576	2801217	2900675	19-3/8 x 23-3/8 x 11-1/2
24x24x12	2600181	2800131	2900632	23-3/8 x 23-3/8 x 11-1/2



## Variflow-SC® 12" Double Header

Nominal Size	MERV 11 Item #	MERV 13 Item #	MERV 14 Item #	Actual Dimensions
12x24x12	2604449	2801907	2904330	11-3/8 x 23-3/8 x 11-1/2
20x20x12	2606506	2808848	2903738	19-3/8 x 19-3/8 x 11-1/2
20x24x12	2608722	2807763	2902017	19-3/8 x 23-3/8 x 11-1/2
24x24x12	2602273	2801906	2900319	23-3/8 x 23-3/8 x 11-1/2



F I L T R A T I O N

# LEGACY®

## High Efficiency Rigid Cell, Extended Surface Filters 4" (MERV 11 & 14) and 12" Depths (MERV 11 & 15)



### Unique Channel Flow Molded Media:

- 4" is MERV 11 & 14; 12" is MERV 11 & 15
- Very Low Initial Resistance Reduces Energy Consumption; Lowers Energy Costs
- High Dust-Holding Capacity
- Light Weight all Plastic Cell Sides
- Class 1 per U.L. Standard 900

### MERV 14 and 15 filters earn points toward LEED Certification

Legacy® is a high-efficiency, low initial pressure drop, rigid cell produced in both 4" and 12" depths. Two efficiencies are offered in each depth:

- MERVs 11 and 14 in the 4" depth
- MERVs 11 and 15 in the 12" depth\*

In either configuration, the Legacy will improve fine airborne particulate removal while maintaining, or reducing, your energy consumption and costs.

If your goal is LEED® Certification for your facility, the MERV 14 and 15 models can earn points in support of registered LEED project certification.

All Legacy media packs are made using CLARCOR's proprietary E-pleat™ Technology. This remarkable process ensures pleat spacing that maximizes air flow and ensures full depth dust loading of the media. E-pleat Technology and the 100% synthetic media delivers a sturdy, durable media pack that surpasses the characteristics of wet-laid glass and aluminum separators used in competitor products. With no metal used in the media pack, and cell sides made with High Impact Polystyrene (HIPS) plastic, Legacy filters are environmentally safe and fully incinerable.

\* Minimum Efficiency Reporting Values (MERV) are determined using ASHRAE Test Standard 52.2-2007.

### 4" Box Style (No Header)

Item #	Nominal Size	Rating	Actual Dimensions
1122503	12x24x4	MERV 11	11 3/8 x 23 3/8 x 3 3/4
1122509	16x20x4	MERV 11	15 3/8 x 19 3/8 x 3 3/4
1122510	16x25x4*	MERV 11	15 3/8 x 24 3/8 x 3 3/4
1122513	20x20x4	MERV 11	19 3/8 x 19 3/8 x 3 3/4
1122515	20x24x4	MERV 11	19 3/8 x 23 3/8 x 3 3/4
1122512	20x25x4*	MERV 11	19 3/8 x 24 3/8 x 3 3/4
1122504	24x24x4	MERV 11	23 3/8 x 23 3/8 x 3 3/4
1122000	12x24x4	MERV 14	11 3/8 x 23 3/8 x 3 3/4
1122001	16x20x4	MERV 14	15 3/8 x 19 3/8 x 3 3/4
1122002	16x25x4*	MERV 14	15 3/8 x 24 3/8 x 3 3/4
1122003	20x20x4	MERV 14	19 3/8 x 19 3/8 x 3 3/4
1122004	20x24x4	MERV 14	19 3/8 x 23 3/8 x 3 3/4
1122005	20x25x4*	MERV 14	19 3/8 x 24 3/8 x 3 3/4
1122006	24x24x4	MERV 14	23 3/8 x 23 3/8 x 3 3/4

\* Reverse size pleat on 25" height product

### 4" Single Header

Item #	Nominal Size	Rating	Actual Dimensions
1123403	12x24x4	MERV 11	11 3/8 x 23 3/8 x 3 3/4
1123413	20x20x4	MERV 11	19 3/8 x 19 3/8 x 3 3/4
1123415	20x24x4	MERV 11	19 3/8 x 23 3/8 x 3 3/4
1123404	24x24x4	MERV 11	23 3/8 x 23 3/8 x 3 3/4
1122403	12x24x4	MERV 14	11 3/8 x 23 3/8 x 3 3/4
1122413	20x20x4	MERV 14	19 3/8 x 19 3/8 x 3 3/4
1122415	20x24x4	MERV 14	19 3/8 x 23 3/8 x 3 3/4
1122404	24x24x4	MERV 14	23 3/8 x 23 3/8 x 3 3/4

### 12" Box Style (No Header)

Item #	Nominal Size	Rating	Actual Dimensions
1122540	12x24x12	MERV 11	11 3/8 x 23 3/8 x 11 1/2
1122543	20x20x12	MERV 11	19 3/8 x 19 3/8 x 11 1/2
1122544	20x24x12	MERV 11	19 3/8 x 23 3/8 x 11 1/2
1122546	24x24x12	MERV 11	23 3/8 x 23 3/8 x 11 1/2
1122140	12x24x12	MERV 15	11 3/8 x 23 3/8 x 11 1/2
1122143	20x20x12	MERV 15	19 3/8 x 19 3/8 x 11 1/2
1122144	20x24x12	MERV 15	19 3/8 x 23 3/8 x 11 1/2
1122146	24x24x12	MERV 15	23 3/8 x 23 3/8 x 11 1/2

### 12" Single Header

Item #	Nominal Size	Rating	Actual Dimensions
1122603	12x24x12	MERV 11	11 3/8 x 23 3/8 x 11 1/2
1122613	20x20x12	MERV 11	19 3/8 x 19 3/8 x 11 1/2
1122615	20x24x12	MERV 11	19 3/8 x 23 3/8 x 11 1/2
1122604	24x24x12	MERV 11	23 3/8 x 23 3/8 x 11 1/2
1122040	12x24x12	MERV 15	11 3/8 x 23 3/8 x 11 1/2
1122043	20x20x12	MERV 15	19 3/8 x 19 3/8 x 11 1/2
1122044	20x24x12	MERV 15	19 3/8 x 23 3/8 x 11 1/2
1122046	24x24x12	MERV 15	23 3/8 x 23 3/8 x 11 1/2

# EFFICIENCY SELECTION GUIDE

(1) Arrestance	(1) Efficiency	(2) MERV rating	Filter Type	Alrguard Product Selection
60 - 80%	Less Than 20%	MERV 1 - 4	Disposable Panel Filters Permanent Metal Filters Fiberglass Media Latex Coated Natural Fiber Media Foam Media Automatic Roll Media	Disposables Types HS, HD Standard Grade Permalast® Foam Media Types CF, DSF
80 - 90%	Less Than 20%	MERV 5	Disposable Panel Filters Synthetic Media Automatic Roll Filter Media	Tri-Plex 85® StreamLine™ Polyester Media Types YTS, SHP, DMC, DL-1, DL-2
90 - 95%	20 - 30%	MERV 6 - 7	Self-Supported Pocket Filters Ring Panel Filters Pleated Panel Filters	Activator Series (2 Ply, 3 Ply), Series N, Bio-Pure® DP4-SA Bio-Pure®
95%	30 - 40%	MERV 7 - 8	Self-Supported Pocket Filters Ring Panel Filters Pleated Panel Filters	SynPak, Ultra II Bags, DPGT, DP40, DP40-Max XTREME+Plus, PowerGuard™ (MERV-11), DPHT, Fresh Air™, Fresh Air™ Supreme
95 - 98%	40 - 50%	MERV 8 - 9	Extended Surface Pocket Filters	Venti-Pak® VP-4, Clean-Pak™ CP-4
95 - 98%	50 - 60%	MERV 9 - 10	Pleated Panel Filters Extended Surface Pocket Filters Extended Surface Rigid Cell Filters	DP-65 (MERV 11) Venti-Pak® VP-5, Clean-Pak™ CP-5 Vari-Pak®, Vari-Pak® Model S
99%	60 - 70%	MERV 10 - 11	Extended Surface Pocket Filters  Extended Surface Rigid Cell Filters	Clean-Pak™ CP-6, Venti-Pak® VP-6 Bio-Pure®  Variflow®, Variflow® SC, Variflow® Compact Series, Variflow® II-M, Variflow® II-MC, Vari+Plus®, Vari-Pak®, Vari-Pak® Model S, Bio-Pure®, V-Force®, Legacy®
99%	70 - 80%	MERV 12 - 13	Extended Surface Pocket Filters  Pleated Panel Filters	Multi-Guard® MG-7  DP-g13een®
99%	80 - 90%	MERV 13 - 14	Extended Surface Pocket Filters  Extended Surface Rigid Cell Filters	Clean-Pak™ CP-8, Venti-Pak® VP-8, Multi-Guard® MG-8, Bio-Pure® Variflow®, Variflow® SC, Variflow® Compact Series, Variflow® II-M, Variflow® II-MC Vari+Plus®, Vari-Pak®, Vari-Pak® Model S, Bio-Pure®, Legacy® 4", V-Force®
99%	90 - 95%	MERV 14 - 15	Extended Surface Pocket Filters  Extended Surface Rigid Cell Filters	Clean-Pak™ CP-9, Venti-Pak® VP-9 Multi-Guard® MG-9, Bio-Pure®  Variflow®, Variflow® SC, Variflow® Compact Series, Variflow® II-M, Variflow® II-MC, Vari+Plus®, Vari-Pak®, Vari-Pak® Model S, Legacy®, Bio-Pure®, Vari+Plus® AG, V-Force®
Does not apply	95% DOP	MERV 16	Extended Surface Rigid Cell Filters	Microguard® 95, Vari+Plus®, Microguard® LR, Advantage®
Does not apply	99.97% 99.99% 99.999% 99.9995%	Not Applicable	HEPA/ULPA Filters	Microguard® 99, MicroPleat™

(1) Arrestance and Dust Spot Efficiency ratings are based on the ASHRAE 52.1 - 1992 test method.  
 (2) Minimum Efficiency Reporting Value (MERV) ratings are based on the ASHRAE 52.2 test method.

# Little GIANT<sup>®</sup> NXTGen

New from the proven leader in condensate pump technology... the slimmest tank-style condensate pump for the biggest installation flexibility.

Engineered with contractor input and Little Giant<sup>®</sup> quality, our new line of NXTGen condensate pumps is designed to outsmart, outlast, out-cool, out-quiet, and out-perform every other condensate pump out there.

### More new features

A slimmer footprint ... an oil-resistant tank and check valve that eliminate the problem of cracked tanks exposed to oil ... and numerous other features not available on competitor models comprise this next generation of cool. Making NXTGen the pump of choice for removal of condensate from air conditioners and high-efficiency gas furnaces.

### Features:

- Slimmer Footprint: 4.8" x 10.2" x 6.5" size
- Oil Resistant Tank and Check Valve
- 1/4-Turn Check Valve
- External Overflow Safety Switch
- External Test/Run Lever
- Patent-Pending Cooling Design
- External Tank Anti-Sweat Sleeve
- Multiple Brackets: steel mounting bracket for use on either side of the tank
- 20' Shut-off head (115v Models)
- 6' power cord
- Two-Year Warranty
- Rubber Feet
- Thermal overload protection
- cCSAus listed
- Vertical type pump unit

### Easy Install Stainless Steel Brackets



Standard & Tubing Models mounting bracket. Mounts from both sides.

Anti-Sweat Models mounting bracket. Mounts from both sides.

### External Safety Switch (optional)

Optional External Safety Switch for easy access, greater installation flexibility, and up-sell potential.



### Fast & easy wall mounting



## High humidity applications?



### Anti-Sweat Sleeve

In areas of high humidity, significant amounts of condensation can build up on the outside of the tank, causing water damage. Only Little Giant's NXTGen pump comes with an anti-sweat sleeve to eliminate sweating.



Item #	Description
554551	NXTGen 230v Condensate Pump
554550	NXTGen 115v Condensate Pump
599138	NXTGen Anti-Sweat Sleeve

## Little Giant "Classic" Pumps

Item #	Description
554435	115v Condensate Pump w/ Tubing
554461	230v Condensate Pump w/ Tubing
553455	115v Mini-Split Condensate Pump
553458	230v Mini-Split Condensate Pump



## Little Giant Switches

Item #	Description
ACS-2	Auxiliary Pan Overflow Switch
ACS-4	In-Line Safety Switch



CONDENSATE

# SAFE-T-SWITCH®

## Magnetic Reed Switches

Safe-T-Switch® is the most reliable condensate overflow switch available. It detects clogged air conditioning condensate drains and shuts off the system to prevent water damage to floors, walls and ceilings. This easy to install, uniquely designed, patented magnetic reed switch will not stick or rust. Safe-T-Switch® condensate overflow switch can be connected to either the red or yellow (thermostat) wires.



### Model SS1

#### For Installation on Primary Drains or Auxiliary Drain Outlets

Safe-T-Switch® model SS1 can be installed horizontally or vertically, inline or on the primary pan's auxiliary drain outlet by using the included 3/4" adapter, bushing and cap. It can be installed on a sloping line and does not need to be level or plumb.



### Model SS2

#### For Installation on Primary Pan Auxiliary Outlet

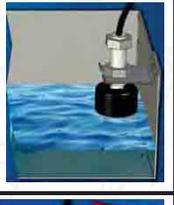
Using the 3/4" adapter, the SS2 can be installed on the auxiliary outlet of the primary drain pan. The SS2 also provides easy access to the switch and the primary drain line for service.



### Model SS3

#### For Installation on Primary & Auxiliary Drain Pans

The specially designed steel mounting bracket clips firmly over the edge of most drain pans. The slim-profiled SS3 can be installed on primary or auxiliary drain pans.



### Model SS4

#### For Primary & Auxiliary Drain Pans with Slanted Sides or Lipped Edges

The SS4 clip is adjustable to fit over slanted sides and lipped edges. SS4 can be installed on primary or auxiliary drain pans.

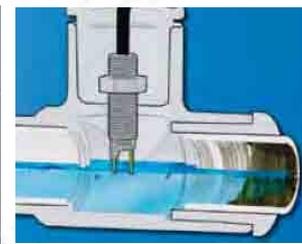


## Electronic Condensate Overflow Switches



### SS103E

The SS103E can be installed horizontally or vertically, inline or on the primary pan's auxiliary drain outlet by using the included 3/4" adapter, bushing and cap. An additional sensor can be installed in the auxiliary drain pan. SS103E provides the added protection of dual sensor control with the simplicity of installing a single device.



### SS500EP

#### For Primary Drain Pan when Plenum Rating is Needed

The SS500EP is easily installed directly in the drain pan. Its small size and slim profile makes it great for use on commercial rooftop downflow units. The logic circuit continuously samples the probes for water. If water is detected, the circuit determines if the condition is transient or permanent. If permanent, the system will be shutdown. Onboard LED's indicate the condition of the unit at a glance, removing any guess work.



### SS610E

SS610E is specially designed for use in Mini Split systems. Its small Sensor can easily fit in the confined internal spaces of most units. It can also be installed directly in the Drain Pan or clipped to the unit's Coils. SS610E's CPU unit is housed in an attractive casing that can be mounted directly to the side of the unit. Uses power from A/C unit so no batteries are required.





On Duty 24/7

# AquaGuard®

# #1 Contractors Choice

## AG-1100E

AG-1100+ REPLACEMENT



- 5 Amp-High Capacity, Solid State Sensor
- Residential and Commercial Applications
- Shut-off with as Low as 1/8" of Condensate in the Drain Pan
- Sensors are Protected from False Trigger Causing Debris
- Mounts to Drain Pan in Seconds with Just 1 Thumbscrew
- Time Delay

## SECONDARY METAL PAN SENSOR

## AG-1250E

AG-1200+ REPLACEMENT



Metal Contacts

- Normally Open 4th Wire for Optional External Alarm, Digital Controller or Energy Management Systems
- Switch can be normally open or normally closed
- Versatile mounting options allow positioning on the unit, in a secondary pan, floor or wall
- 5 Amp, 24 Volts AC solid state sensor
- Clip on mounting base for easy cleaning and drying of sensor

## MULTIPURPOSE WATER SENSOR METAL/PLASTIC SECONDARY DRAIN PANS

## AG-3180E



- Smart Sensor Technology(Patent Pending)
- Perfect Solution for Self-Contained Package Units
- Time Delay Up to 5 Minutes
- Meets Internal Primary Pan Code Requirements
- 6' of Plenum Rated Probe Wire
- 6' of Plenum Rated Control Wire
- Water Detection LED
- 5 Amp, Solid State Sensor

## PLENUM RATED MICRO PAN SENSOR IDEAL FOR COMMERCIAL PACKAGE UNITS, METAL/PLASTIC SECONDARY PAN AND PRIMARY PAN WITH TIME DELAY

## AG-3150E/75E



- Smart Sensor Technology (Patent Pending)
- Time Delay Up to 5 Minutes
- Redesigned Probe Sensor for Increased Reliability
- Compact Waterproof Design
- Bonus Secondary Sensor
- Water Detection LED
- AG-3175E Is Plenum Rated
- 5 Amp, Solid State Sensor

## PRIMARY PAN SENSOR WITH TIME DELAY

## AG-9300U



- Meets International Building Codes
- Up to 20 Second Make/Break Delay
- Automatic Reset
- Easy Installation
- Low Battery Audible Alert
- UL 508 Approved

## UNIVERSAL MINI-SPLIT DRAIN SENSOR

## PRODUCT SELECTION GUIDE

	METAL SECONDARY PANS	PLASTIC SECONDARY PANS	PRIMARY PAN	MINI-SPLIT	COMMERCIAL PACKAGE UNIT	PLENUM APPROVED
AG-1100E	X					
AG-1250E	X	X				
AG-3180E	X	X	X		X	X
AG-3150E	X	X	X			
AG-3175E	X	X	X			X
AG-9300U				X		

CONDENSATE

# Diversitech Wet Switch—Item # WS-1



The Wet Switch is a solid state device designed to detect the presence of condensate water overflow. The Wet Switch is placed into the secondary drain pan — a normally dry pan. If the primary drain pan fails, condensate water will overflow into the secondary drain pan. Upon sensing moisture, the Wet Switch will turn the system off (typically the cause of the condensing water) to help prevent damage to carpets, walls, woodwork, ceilings, and other property.

**Hydrophilic Pad • Integral Feet • Stainless Steel Sensor Array • Solid State Electronics  
Epoxy Encapsulated Electronics • Double Throw Relay • Standard 24VAC control • Multiple Unit Connectivity**

## PVC Pipe and Fittings



Item #	Description	Std. Qty.	Item #	Description	Std. Qty.
PVC401-007	3/4" Tee - SLIP x SLIP x SLIP	50	PVC437-101	3/4"x 1/2" Bushing	100
PVC406-007	3/4" Elbow - SLIP x SLIP	50	PVC447-007	3/4" SLIP Cap	100
PVC407-007	3/4" Elbow - SLIP x FIPT	50	PVC448-007	3/4" Female (FIPT) Cap	50
PVC409-007	3/4" Street Elbow - SPG x SLP	50	PVC449-007	3/4" SLIP Plug	50
PVC410-007	3/4" Street Elbow - MPT x SLP	50	PVC450-007	3/4" Male (MIPT) Plug	50
PVC417-007	3/4" 45° Elbow - SLIP x SLIP	50	PVC457-007	3/4" Threaded Union - SLIP x SLIP	10
PVC429-007	3/4" Coupling - SLIP x SLIP	50	RUNTRAP	3/4" Running Trap	1
PVC435-007	3/4" Female Adapter - SLIP x FPT	50	PTRAP	3/4" "P" Trap	1
PVC436-007	3/4" Male Adapter - MPT x SLP	50	PVC3/440	3/4" 10' Schedule 40 PVC Pipe	1

## PVC Glues and Cleaners

Item #	Description	Uses	Image
PVCGLUE-4	31012 4oz. Regular Clear PVC Cement	Regular-Bodied Clear cement for use on all schedules and classes of PVC pipe and fittings up to 4"(Sch. 40) and up to 2"( Sch. 80)	
PVCGLUE-8	31013 8oz. Regular Clear PVC Cement		
PVCGLUE-8HD	30863 8oz. Heavy-Duty Clear PVC Cement	Heavy duty clear cement for use on all schedules and classes PVC pipe and fitting up to 12" diameter with interference fit, up to 18" for non-pressure.	
RAIN-R-SHINE	30891 8oz. Blue PVC Cement	Medium-bodied blue cement for use on all schedules and classes of PVC pipe and fittings up to 6" diameter with interference fit. Very fast-setting "hot" cement formulated for wet conditions and/or quick pressurization and fast installation.	
PURPLE PRIMER	30756 8oz. Purple PVC Primer	Purple-tinted aggressive primer for use on PVC and CPVC pipe and fittings. Removes surface dirt, grease and grime as well as softens the pipe surface to allow a fast, secure solvent weld. For use in areas where plumbing code calls for verification that a primer has been used.	

CONDENSATE

## PanSeal Drain Pan Epoxy

- Works in standing water · Seals leaks immediately
- No system down time · No surface preparation required
- Works on both metal and plastic pans.
- 100% free of solvents and volatile organic compounds.
- Perfect for repairs or for preventative maintenance.



Item #	Description
2000-1PG	PanSeal Gallons
2000-PC	PanSeal Cartridges

## Pancrete — “The Pan in a Can”



Item #	Description
PCX1	1 Gallon Pancrete Kit (1 Gallon Part A & 1 Gallon Part B)

## Nu-Calgon Pan Spray

Item #	OE #	Description
CHM00492	4296-50	Nu-Calgon White Pan Spray



## Nu Line Condensate Treatment

Designed to prevent water damage to ceilings, walls and flooring caused by clogged A/C condensate drains. More effective, non-corrosive alternative to chlorine tablets and bleach. Formulated to prevent clogs and floods by loosening and removing slime and scum buildup in A/C, refrigeration and drinking fountain condensate drain pans, lines and pumps. Resists further build-up for up to 90 days. Liquid product (in supplied squeeze container) allows easy application in difficult to access pans and lines.



Item	Description
NL1	NU LINE TREATMENT 8 oz.
NL2	NU LINE TREATMENT 32 oz.

## Nu-Calgon Drain Solve



- No violent eruptions
- Pours through standing water
- Non-fuming (no rotten egg odor)
- Good for opening condensate lines
- Cuts through grease and organic matter
- Generates heat when added to water to help loosen clogged drains

Item #	Nu-Calgon #	Description
CHM00818	4165-08	Drain Solve - 1gal.

## Economy Pan Treatment

Economical with 200 tablets per jar. Safe, noncorrosive, odor-free and 100% soluble. Approved for computer rooms. Convenient, easy-to-use tablet form provides prolonged cleaning action. Dosage: 3 tablets per 3 tons per month.



Item	Description
PROTREAT-200	Pro-Treat Drain Tablets - 200pk

## Flow-Plus™ Pan Treatment

A unique polymer formula that maintains condensate flow and prevents drain pan overflow. 100% active. Flow-Plus™ leaves no residue, no waste, and is nonlogging. Effective, long-term condensate activated release. Environmentally safe, non-toxic, and non-corrosive.



Item	Type	Tonnage	Pack Qty.
FLOW-PLUS-25	Tabs	Up To 3 Tons	25
FLOW-PLUS-200	Tabs	Up To 3 Tons	200
FLOW-PLUS-6	Tabs	3 - 5 Tons	1
FLOW-PLUS-10	10oz. Tubs	5 - 20 Tons	1
FLOW-PLUS-125	1.25 lb. Tubs	20 - 50 Tons	1

## Trane Condensate Pan Treatment

Dynamic Time-Release Condensate Drain Pan Treatments use state-of-the-art, water-activated, time-release polymer technology. The product may be used safely in air-conditioner and refrigerator drain pans, dehumidifier water tanks, or any other non-potable water retention area. The system is registered with the Environmental Protection Agency (EPA Reg. No. 63281-2-80464). The honeycombed solid package remains intact until it becomes activated by moisture... then it deactivates again, providing dependable, sustained time-release protection for just pennies a day. The system contains a corrosion inhibitor and adds a light, pleasant scent to the air as it works.

Item	Description	Item	Description
CHM00257	1-2.5 Ton Pan Treatment - 10pk	CHM00279	1-2.5 Ton Pan Treatment - 20pk
CHM00258	3-5 Ton Pan Treatment - 6pk	CHM00320	3-5 Ton Pan Treatment - 20pk
CHM00259	7-10 Ton Pan Treatment - 2pk	CHM00321	7-10 Ton Pan Treatment - 8pk
CHM00260	20 Ton Pan Treatment - 1pk	CHM00322	20 Ton Pan Treatment - 8pk
CHM00264	50 Ton Pan Treatment - 1pk	CHM00323	50 Ton Pan Treatment - 4pk



## Wasp & Hornet Spray - EWHIK16

Kill pesky wasps, yellow jackets and hornets with the Enforcer Instant Knockdown 16 oz. Wasp & Hornet Killer. Residual action kills wasps, yellow jackets and hornets as they return to nest. A single spray reaches up to 22 ft. for long-reaching coverage and is non-conductive up to 47,300 volts for safety.



## Hand Cleaners



Item	Description
51425	Klein "Kleaner" Wipes
25116	HCP-15 Orange Pumice Hand Cleaner



## Loctite

### Sealants

LOCTITE® 515™ cures when confined in the absence of air between close fitting metal surfaces. It seals close fitting joints between rigid metal faces and flanges and will flex with minor flange movements. Provides resistance to low pressures immediately after assembly of flanges. Used as a form-in-place gasket for pumps, thermostats, compressors, and more.



Item	Description	Mfg. #
SEL00922	Gasket Eliminator - 50ml	515
SEL00376	Gasket Eliminator - 300ml	515
SEL00490	Removable Threadlocker	24221

### Lubricants

#### Item # LUB00007 – Loctite 76732 Silver Grade Anti-Seize

Heavy duty, temperature resistant, petroleum-based lubricant compound fortified with graphite and metallic flake. Inert – will not evaporate or harden in extreme cold or heat.



## Heat Conductive Compound

### Honeywell Item # 107408

#### Heat Conductive High Temperature Grease

Heat conductive compound used on insertion bulbs going into a well to increase the temperature sensitivity.



## Glyptal Insulating Paint

### 1201A INSULATING PAINT - Item # GLYPTAL

Although Glyptal 1201 was originally developed as an insulating paint for electrical applications, its outstanding resistance to corrosion, moisture, oil, acid, heat, dust and salt spray has made it popular as a primer, sealer, adhesive and protective finish. Glyptal has great electrical insulating properties too. Maximum temperature 250°F. Dries tack-free in 2 hours.



## Penetrants



Item	Description
CO-1	Pull-a-Spout Oiler
CR-1	Rust Breaker
WD40	WD40 - 11oz. Can
16PB	PB Blaster Penetrant



## Odor Neutralizers

### Item # CHM00179 – Netronic Odor Neutralizer

Neutronic™ Odor Neutralizer - Chemically Neutralizes Odors Caused By Smoke And Pets - Ideal For Use In HVAC Return Air Ducts, Hotels, Apartments, Homes, Hospitals, Bathrooms And Kitchens - 8 Oz Gel Tub Lasts 3 Months.



### BBJ FreshDuct Odor Eliminator

Fresh Duct controls odors without using perfumes or oils that may add to indoor air pollution, and it infiltrates and neutralizes odors at the source. FreshDuct contains BBJ EnviroGard™, an encapsulation control agent that controls odors by both encapsulating and breaking down odor molecules, while time releasing a fresh fragrance. It is formulated with non-toxic and readily biodegradable ingredients meaning there is no need to evacuate the premises during application.



Item	Description
BBJ-#433	15oz. Fresh Duct Liquid
BBJ-#472	14oz. Fresh Duct Spray

## Sealants & Threadlockers

Liqui-Vac is the only liquid sealant with the capacity of sealing high vacuum connections. It will positively seal high vacuum leaks around threads, through flared connections, face joints, wherever metal joins metal. Liqui-Vac is resistant to most solvents, can seal to 1 micron, and withstands temperatures from -100°F to +325°F.



Item	Description
CLL-1	Thread Sealant Tube
4036	Liqui-Vac High Vacuum Sealant

## Dow Corning Vacuum Grease

### Item # 13228 – Dow Corning High Vacuum Grease - 150g

This High-Vacuum Grease is used as a sealant for vacuum and pressure systems. Among applications, it lubricates valves, stopcocks, and synthetic rubber gaskets and seals in high temperature applications. Excellent resistance to water (is insoluble), chemicals, and dilute solutions of acids and alkalis. Maintains consistency from -40° to +400°F (-40° to +204°C).



## General Purpose Black Spray Paint

### Flat Black Spray paint - Item # 81001

General purpose interior/exterior flat black spray paint for wood, metal, and more. Great for spraying the inside of grille cans during the construction process.



## Solvent Degreaser

### Saf-T-Kleen II™ - Item # SCM-816-01

Non-conductive and safe for use on motors and electrical circuitry. The fast-drying formula has powerful dissolving action that leaves no residue. It is a no-flash formula eliminating fire hazards.





## Your Best Solution™

### Lubricants

Item	Description	Uses	Image
03005	<b>CRC 3-36 Multi-Purpose Lubricant</b>	Multi-purpose lubricant, penetrant and corrosion inhibitor forms a clear, thin film that lubricates, prevents corrosion, displaces moisture, penetrates and cleans light soils and contaminants. 3-36® drives out moisture and leaves a thin, long lasting film to protect against corrosion. It is VOC Compliant and leaves no sticky residue. 3-36® is NSF H2 Registered for use in meat and poultry plants. 360° spray valve – can be sprayed from any position.	
03160	<b>CRC 3-36 Ultra-Lite Lubricant</b>	An ultra-thin, non-staining dry film lubricant that resists oil, dust and dirt build-up. Penetrates into the most minute openings, sealing out moisture and preventing corrosion with an ultra-light protective film. 3-36® Ultra-Lite displaces moisture – it is excellent for drying out electrical/electronic components. 3-36® Ultra-Lite is NSF H2 Registered for use in meat and poultry plants. Convenient 360° spray valve – can be sprayed from any position.	
03302	<b>CRC Heavy Duty Mold Release Silicone</b>	A heavy-duty (5% silicone) mold release used for a variety of applications including injection molding, compression molding, blow molding, and extruding. Provides fast and easy part removal from molds.	
SL3190	<b>CRC STA-PLEX Premium Red Grease</b>	Extremely versatile lithium complex NLGI #2 grease with excellent high temperature lubrication that protects against rust and oxidation. The typical drop point is 500°F.	

### Degreasers

03095	<b>CRC Heavy Duty Degreaser</b>	Heavy Duty Degreaser is a versatile chlorinated solvent based degreaser that is extremely effective in heavy duty applications. It aggressively dissolves grease, oil and sludge for more efficient operation of mechanical equipment. Heavy Duty Degreaser evaporates quickly and is non-conductive, non-corrosive and non-staining. It dries residue free for quick and easy maintenance of industrial and electrical equipment.	
03185	<b>CRC Chlor-Free Degreaser</b>	Innovative heavy duty non-chlorinated degreasing solvent that removes oil, grease and other contaminants. Excellent for use where rapid turn-around is necessary and low flashpoint solvents can be used. Use caution on plastics.	

### Corrosion Inhibitors

03282	<b>CRC SP-400 Corrosion Inhibitor</b>	Long-term indoor/outdoor corrosion inhibitor for machined surfaces and assemblies subjected to long periods of storage or adverse shipping conditions. SP-400 is an easily removable film that will provide protection of all equipment subject to heat, humidity, chemicals or severely corrosive atmospheres.	
18412	<b>CRC ZINC-IT Cold Galvanize Coating</b>	High-performance coating of >92% pure zinc that electromechanically bonds with ferrous metals to form a galvanic cell. Actively fights rust and corrosion, and protects base metal even when scratched or abraded. It provides excellent weldability, and is fast-drying – dries to the touch in 15 minutes.	

### Component Cleaners

03130	<b>CRC QD Contact Cleaner</b>	Suitable for cleaning sensitive electronics and electrical equipment without leaving a residue. Evaporates quickly, leaves no residue and is safe to use on all plastics. Use where lower flashpoint cleaners are acceptable. NSF K2 Registered.	
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Go with the

**PRO!**

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Item	Description	Uses
TRIPLE-D	Universal Coil Cleaner - 1gal.	Triple-D™ is a Universal Coil Cleaner suitable for use on condenser and evaporator coils. Metal safe and does not attack aluminum or copper coil components, extending equipment life and diminishing potential for refrigerant leaks. Safe for rooftop units. In liquid form, Triple-D™ is super concentrated. A single gallon of concentrate makes 75% more mixed coil cleaner than conventional concentrations. The liquid concentrate is also NSF Registered, assuring that it is safe as a cleaner in restaurants, hospitals, government institutions, and any food preparation area (rinse thoroughly after use). Triple-D™ is a safer, more versatile product than conventional acid or non-acid coil cleaners. One product does it all — truly a Universal Coil Cleaner.
PRO BLUE	Heavy Foaming Coil Cleaner - 1gal.	Pro-Blue™ is a heavy-foaming, alkaline-based coil cleaner which will assist in removing the build-up on your air-cooled condenser. Pro-Blue™ will help your condenser look as good as new.
PRO-BROWN	Ultra-High Foaming Coil Cleaner - 1gal.	An ultra-high foaming formula that pulls out deeply embedded dirt. The fast, dual-action formula cleans and brightens. Pro-Brown™ is biodegradable and safer than foaming hydrofluoric acid cleaners.
PRO-RED+	Non-Acid Coil Cleaner & Brightener - 1gal.	Pro-Red Plus™ Non-Acid Coil Cleaner and Brightener is an easy to use, concentrated, fast-acting product that foams and lifts away stubborn deposits from air-cooled condensers and coils. It removes tarnish and corrosion deposits, and leaves a bright clean shine on aluminum and copper coils. Pro-Red Plus™ Non-Acid Coil Cleaner and Brightener cleans by chemical action. Its brightening properties are as effective as conventional acid coil cleaners, but Pro-Red Plus™ does not contain extremely toxic hydrofluoric acid. The vigorous foaming action eliminates the need for prolonged soaking, steam cleaning or scrubbing coils. Non-acid formula does not emit corrosive fumes, and will not rust ferrous metals.
PRO-YELLOW	Non-Acid Coil Cleaner & Brightener - 1gal.	Pro-Yellow™ is an easy to apply, non-acid coil cleaner and brightener. This effective formula quickly removes dirt and grime from outdoor coils and leaves them clean and bright. It's strong foaming action removes even stubborn deposits easily.
PRO-GREEN	Self-Rinsing Evaporator Coil Cleaner - 1gal.	The Pro-Green™ is a non-toxic, self rinsing evaporative coil cleaner which is a safe-to-use product on your evaporator coils. This coil cleaner can also be used on air-cooled condensers, electronic filters and fan blades.
PRO-KLEEN	Foaming Acid Condenser Cleaner - 1gal.	Less hazardous because it contains no dangerous hydrofluoric acid. High-foaming action and easy rinsing minimizes cleaning time. Effectively removes salts and scale as it brightens. USDA AUTHORIZED.

CHEMICALS

# Trane Coil Cleaners

Item	Description	Uses	Image
CHM00261	<b>Nu-Clear Foaming Coil Cleaner</b>	Outperforms acid products in the removal of contaminants found on air-conditioning coils and component parts. Special surfactants, tackifiers, and sequestering agents that penetrate and emulsify contamination, which is lifted from the surface with a foaming action for easy rinsing with water, contains no hazardous petroleum or chlorinated solvents, and are nonflammable.	
CHM00271	<b>Premium Non-Rinse Evaporator Cleaner</b>	Heavy-duty and economical liquid coil-cleaning concentrate containing a balanced blend of organic and inorganic ingredients together with sufficient alkalinity for fast cleaning as well as effective action against corrosion. No rinsing required.	
CHM00255	<b>Enviro-Coil Cleaner Treatment</b>	Safely cleans both the evaporator and condenser coil without damage to equipment, personnel, or the environment. Contains no butyl ether, acid phosphates, petroleum solvents, potassium hydroxide, or sodium hydroxide. Enviro-Coil is biodegradable, non-combustible, and odorless.	

## Nu-Calgon

Item	Description	Uses	Image
CHM00393	<b>4291-08 Nu-Brite® Coil Cleaner</b>	Nu-Brite is the most effective coil cleaner available today. It foams, brightens, and is an equally effective yet safer alternative to HF acid-based products. It produces a high volume of foam that cleans more effectively than acids, particularly in removing grease. Biodegradable. The liquid versions are USDA approved and NSF registered.	
CHM00344	<b>4143-08 Special Heavy-Duty CalClean</b>	Special HD CalClean is an extra-strong liquid detergent containing surface-active agents, grease solvents, alkaline cleaners, corrosion inhibitors and water conditioners specifically designed for cleaning electronic air filters. Electronic air filters soon become coated with tobacco tars and other deposits that are very difficult to remove with ordinary detergents. Use HD CalClean to rapidly clean dirt, grease, dust and tars from electronic concentrations. HD CalClean can be used to clean evaporator coils, air-cooled condensers and permanent air filters that are soiled and difficult to get clean with other detergents.	
CHM00351	<b>4168-08 Evap Pow'r</b>	Evap Pow'r is a "no-rinse" product formulated for cleaning indoor evaporator coils. The green-colored, slightly alkaline liquid is metal-safe and therefore will not harm the coil's metal surfaces when left in contact with them even in a no-rinse application. It cleans and emulsifies the most stubborn soils and deposits, and is biodegradable as well as USDA-Authorized.	
CHM00354	<b>4171-55 Evap-Foam No-Rinse Aerosol</b>	Evap Foam "no rinse" is a high performance, heavy duty detergent, specifically formulated and packaged into a convenient 18 ounce aerosol can. Evap Foam is ideal for use on most coils, but it is particularly suited for use on cooling or evaporator coils. Evap Foam will liquefy dirt, grease, oil and other residues quickly and easily. Since it is fortified with corrosion inhibitors, it is safe for use on metals and other materials. The product's fast-breaking foam is completely self-rinsing. A pleasant lemon scent helps leave the area deodorized after use.	

## BBJ Enviro-Gard® Coil Cleaner

Item	Description	Uses	Image
BBJ-#525	<b>Power Coil Clean - 1gal.</b>	Power Coil Clean®, with BBJ Enviro-Gard®, is a non-caustic, non-corrosive heavy duty coil cleaner that safely cleans and deodorizes evaporator coils, condenser coils, heating coils, window units, air filters, blowers, and other dirty HVAC/R components without damaging metal surfaces. BBJ Enviro-Gard® is an encapsulation control agent that regulates the proven cleaning power of ammonium bifluoride without damaging metal surfaces or generating harmful byproducts. This revolutionary patented technology allows Power Coil Clean to clean like an acid, but without damaging the equipment.	



# Indoor Air Quality Products

Mold, mildew and odor is a problem in HVAC systems and most Americans spend a large portion of their day indoors in HVAC controlled environments. By their nature, HVAC systems create a lot of moisture during the cooling and de-humidification process and this can cause problems with mold, mildew and odor – AKA dirty sock syndrome. This can lead not only to health risks but also a loss of efficiency in the HVAC system due to dirty HVAC coils. BBJ commercial HVAC supplies are the solution.

## HVAC System Mold Control

### BBJ MOLD CONTROL (ready-to-use) & MAINTAIN C-1 (fogging concentrate)

BBJ Mold Control for HVAC Systems and Air Ducts® controls and inhibits the growth of microorganisms – such as gram positive and gram negative bacteria, and mold – that form a biofilm on cooling coils and other working parts of HVAC/R systems and Air Ducts. A biofilm on HVAC/R coils causes increased operating costs as it interferes with the heat transfer process. Treatment of the coils with BBJ Mold Control, with its exclusive rust and corrosion inhibiting action, can make systems run more efficiently and last longer. Furthermore, HVAC systems spread these harmful contaminants – which may cause odors, damage surfaces and secrete toxic byproducts – to living and working areas. BBJ Mold Control controls contaminants that often cause poor Indoor Air Quality (“IAQ”) and “sick building syndrome” at the source – the HVAC system. It also prevents damage caused by plugged drains by eliminating slime deposits. And it makes system cleaning easier and faster.

Item	Description
BBJ-#486	Mold Control - 1gal.
BBJ-#480	Maintain C-1 - 15oz.



## Surface Mold Remover

### BBJ Mold and Mildew Remover

BBJ Mold and Mildew Remover combines the germ killing ability of a disinfectant with a cleaning agent to remove harmful mold and mildew. It disinfects and cleans hard, non-porous, inanimate environmental surfaces such as air-conditioning vents, grilles, diffusers and other hard surfaces where microbial contamination may accumulate. BBJ Mold and Mildew Remover is highly effective against a broad range of disease causing organisms, yet harmless to equipment. BBJ Mold and Mildew Remover is convenient and mild to use without any damaging side effects. Its light citrus scent dissipates rapidly making it a pleasure to use. It will not stain or blemish most fabrics.

BBJ Mold and Mildew Remover is specially formulated to clean and disinfect walls, floors, and other surfaces where mold and mildew grow. It is ideal for cleaning and disinfecting exterior system surfaces, internal system surfaces to be treated and rinsed off, and areas where a “knock down” of contamination is necessary before starting work. It is also handy to assure contamination is not moved from job to job by spraying tools, shoes, gloves, etc.

Item	Description
BBJ-#620	32oz. Mold & Mildew Remover
BBJ-#611	1gal. Mold & Mildew Remover



## EnviroCon

### Deodorizer - Bacteriostat - Fungistat

Chlorine dioxide is a powerful antimicrobial compound effective against a broad range of both gram-positive and gram-negative organisms as well as yeasts and molds.

Specific to the HVAC industry, **EnviroCON** product is highly effective in eliminating odor-causing microorganisms as well as those associated with mold, mildew and bacterial growth. As a point of contact application, **EnviroCON** eliminates odors at their source through a chlorine dioxide release-process that destroys organisms at the origin. **EnviroCON** uses no perfumes or masking agents. An enhanced benefit of **EnviroCON** is its low toxicity and safety rating from the EPA. As a result, **EnviroCON** may be used in occupied spaces.

Item	Description
CHM00267	32oz. Scented Envirocon
CHM00269	32oz. Un-Scented Envirocon
CHM00268	1gal. Scented Envirocon
CHM00270	1gal. Un-Scented Envirocon



## Oxine Fungicide

### Item # CHM00265 - 3.5 oz.

Since Oxine’s development in 1971, it has become recognized internationally as the premier chlorine dioxide sanitizer for a variety of applications. Its low toxicity and high efficacy against pathogenic bacteria make it one of the most versatile and widely-recognized sanitizers in the HVAC industry as well as the food processing, water treatment and seafood industries. Oxine is registered by the EPA specifically for use in sanitizing HVAC systems and duct work, including fogging and spraying. Oxine is also a registered Tuberculocide. As a pioneering product in microbial control, Oxine is scientifically-proven effective against *Legionella pneumophila*, *Stachybotrys (black mold)*, *Aspergillus fumigatus*, *Staphylococcus aureus*, *Mycobacterium bovis* (Tuberculosis) and numerous other disease-causing organisms. Oxine eliminates these and many other microbial concerns in a matter of seconds.



## Sani C-N-D™ Coil Disinfectant

### Item # SANI-CND - Coil & Pan Disinfectant

Sani C-N-D™ is an EPA registered disinfectant, fungicide, mildewstat and viricide. It is ready-to-use and assures consistent, effective results. Sani C-N-D™ destroys “dirty sock,” mildew and other malodors.



## Nu-Calgon Evap-Fresh

### Item # CHM00707 - 4166-08 Evap-Fresh

Evap-Fresh is a ready-to-use, non-abrasive, one-step cleaner and disinfectant for evaporator coils in small air conditioners, commercial air handling equipment, HVAC cooling coils and refrigeration equipment. It is the first product of its kind in the industry to receive EPA registration for such claims.



# Chemical Tools & Supplies

## Gallo Gun Condensate Tool

A lightweight (3 oz.) portable tool designed to blowout drain lines instantly. New larger SWOOSH cartridges now deliver 1200 PSI of oil-free food-grade CO2 to clear the line. Each unit comes equipped with a tapered fitting to work on 3/8" - 3/4" drain openings. The flexible hose assembly maneuvers through cabinets, coils, and hard to reach drains.



Item #	Description
GG-1	Gallo Gun Condensate Line Drain Tool
GG-12	Swoosh CO2 Cartridges for Gallo Gun - 12pk
GG-1A	Gallo Gun Adapter Kit

## Mighty Pump - Item #97795

Using the Mighty Pump is the easy way to clear blocked A/C condensate drain lines without nitrogen, gas cartridges or electricity. Quickly clears slime, mold and dirt plugs out of primary and secondary drain lines.

This lightweight, reversible, hand-operated pump generates enough pressure or suction to clear blocked lines from inside or outside a home or building. It can also be used to empty standing water from condensate pans, overflow pans, water heater pans, tubs and toilets.



## B&G 2600 Fogger Unit

### PART # TOL00201

The 2600 fogger is fitted with a flexible hose and adjustable flow control, allowing users to accurately control the quantity and direction of the output. The fogger's flow control provides adjustment of the chemical discharge from Ultra Low Volume (ULV) to a mist with flow rates between 0-540 ml per minute.



## Power Sprayer - Item # PS-1

DiversiTech's new Power Sprayer makes coil cleaning easier and faster!

Designed as a backpack sprayer, it holds up to 4 gallons of coil cleaning solution. The battery powered unit will spray continuously for 10 hours on a single charge. Included are 3 different nozzles to give you the right spray for any situation.



## Hand-Held Sprayers



Item	Description
BS-32	Quart Sprayer
1002	Hand Held Pump Sprayer
2601	1 Gallon Wand Sprayer
2602	2 Gallon Wand Sprayer
DST00857	Nu-Calgon Coil Gun



## Rags, Shoe Covers & Drop Cloths



Item	Description	Pack Qty.
RAG5#	Wiping Rags	5 Lb. Box
DTT-24	Terry Towels	24pk.
SC-1	Blue Shoe Covers	50 Pair
DROP CLOTH	Drop Cloth	100 / box



# Tube Cleaning Tools & Supplies



RAM-PRO-60  
Item # TOL03794

## 25' Flexible Shafts for 9/16" - 1" wet tube cleaning

Item #	Mfg. #	Style
SHF02734	GTC-703-25	Standard
SHF02745	GTC-703-Q25	Quick Connect

## Brass Tube Plugs

Brass Plugs for plugging leaking chiller and heat exchanger tubes 5/8" - 1".

Item #	Mfg. #	Size
PLU00947	TP-062S	5/8"
PLU00158	TP-075S	3/4"
PLU00962	TP-087S	7/8"
PLU00358	TP-100S	1"



## Single-Diameter Brushes

For straight, ferrous and nonferrous tubes

### Blue Nylon Brushes

For removing soft deposits (mud, algae, etc.). Brush should be equal to or 1/16" (1.6mm) smaller than tube I.D.

Tube I.D.	Standard Threaded	Quick Connect
1/2"	BRU00188	BRU00260
9/16"	BRU00168	BRU00176
5/8"	BRU00169	BRU00177
11/16"	BRU00170	BRU00178
3/4"	BRU00171	BRU00179
13/16"	BRU00203	BRU00261
7/8"	BRU00206	BRU00264
15/16"	BRU00204	BRU00262
1"	BRU00189	BRU00187



### Spin-Grit Brushes

For removing soft and light scale deposits. The abrasive impregnated nylon bristles of this brush clean and polish tubes in one step. Designed to be oversized in the tube so the bristles lay over, putting the abrasive in contact with the tube wall.

Tube I.D.	Standard Threaded	Quick Connect
7/16" - 5/8"	BRU00172	BRU00180
11/16" - 3/4"	BRU00173	BRU00181
13/16" - 1"	BRU00191	BRU00266



## Dual-Diameter Brushes

For straight, ferrous and nonferrous internally enhanced tubes. The large diameter end of this brush cleans into the grooves while its small diameter end cleans the lands of the tube's enhancement rifling.

### Nylon "Patriot" Dual-Diameter Brushes

For removing soft and light scale deposits

Tube I.D.	Standard Threaded	Quick Connect
5/8"	BRU00175	BRU00183
15/16"	BRU00324	BRU00448



### Spin-Grit Dual-Diameter Brushes

For removing soft and light scale deposits. The abrasive impregnated nylon bristles of this brush clean and polish tubes in one step.

Tube I.D.	Standard Threaded	Quick Connect
1/2"	BRU00193	BRU00214
5/8"	BRU00184	BRU00215
3/4"	BRU00194	BRU00216
1"	BRU00190	BRU00217
1-1/4"	BRU00213	BRU00218



# Water Treatment Chemicals

## Nickel Safe Ice Machine Cleaner



### Item # CHM00253

Safe to use on all types of ice machines. Drain machine and refill with fresh water. Add 6 to 8 ounces per gallon of circulating water and circulate for 30 minutes. Brush cleaning solution on surfaces not contacted by the solution during circulation. After scale is removed, drain and flush thoroughly with fresh water.

## Scale Remover



### CHM00250 — Hydrochloric Base Scale Remover with PH Indicator

Blend of hydrochloric acid and inhibitors with unique color system built in. Eliminates necessity of checking the activity of the solution with pH paper. If red, it's active; if yellow, add more scale remover. When the circulating solution remains red for 1 hour, all scale has been removed.

## Rydlyme Biodegradable Descaler

**RYDLYME** is specifically designed to dissolve the toughest water scale, lime, mud, and rust deposits from virtually any piece of water based equipment. This powerful, yet totally safe, liquid is non-toxic, non-flammable, non-hazardous, non-corrosive and biodegradable; so **RYDLYME** will not harm your personnel, equipment or our environment.

Water scale deposits are a significant cause of heat transfer loss, along with the subsequent increase in energy costs. In fact, even a thin layer of scale (1/32") can cause a 30% increase in the cost to operate that piece of equipment. Keeping the cooling passages free of mineral deposits significantly improves efficiency, conserves energy, extends the useful life of the equipment, and saves your plant time & money.

**RYDLYME** is utilized by circulating this revolutionary solution throughout the fouled water passages via a simple pump. There is no need for labor intensive dismantling of the equipment. Some equipment may be cleaned while it is in operation without the necessity of a shutdown. **RYDLYME** is very fast too. Most cleaning applications are completed within a 4 hour period!



Item	Description
CHM00544	Rydlyme Descaler - 1gal
CHM00545	Rydlyme Descaler - 5gal
CHM00546	Rydlyme Descaler - 30gal
CHM00547	Rydlyme Descaler - 55gal



## Oils

### Trane OEM Mineral Refrigeration Oils

Item	Description
OIL00042	150 SUS Compressor Oil w/ Lubricity Additive - 1gal
OIL00027	150 SUS (ISO 32) White Mineral Oil - 1qt
OIL00015	300 SUS OEM Formula Compressor Oil - 1gal
OIL00031	300 SUS Compressor Oil w/ Wear Additive - 1gal
OIL00045	300 SUS Compressor Oil w/ Lubricity Additive - 1gal
OIL00022	300 SUS (ISO 68) White Mineral Centrifugal Oil - 2.5gal



### Polyol Ester (POE) Refrigeration Oils

Item	Description
OIL00078	RL32HB (ISO 32) POE Refrigeration Oil - 1qt
OIL00080	RL32H (ISO 32) POE Refrigeration Oil - 1gal
OIL00048	300 SUS (ISO 68) POE Refrigeration Oil - 1gal

### Wholesale Mineral Refrigeration Oils

Item	Description
OIL00057	150 SUS Mineral Refrigeration Oil - 1gal
OIL00058	300 SUS Mineral Refrigeration Oil - 1gal

### Carrier and York Refrigeration Oils

Item	Description
PP23BB006	Carrier 300 SUS (ISO 68) Refrigeration Oil—5gal.
YORKOILC	Genuine York Oil C— # 011-00312-000—5gal.

### Traditional Vacuum Pump Oil

Item	Description
42005	Vacuum Pump Oil - Quart
42006	Vacuum Pump Oil - Gallon



### Synthetic Vacuum Pump Oil

#### Appion Premium Synthetic Blend

- \* Hydrophobic Formulation repels moisture and dirt - stays dry even after exposure to humid atmospheric conditions
- \* Synthetic blend improves vacuum pump performance and provides greater protection to internal pump components
- \* Reduces overall oil consumption and cost - lasts up to 8 times longer than mineral oil



Item	Description
TZM1PK	Pre-Charged Micron-Dry Cartridge -- 1pk
TZMGLN	Micron-Dry Vacuum Pump Oil -- 1gal



# Acid & Compressor Burnout Products

Item	Description	Uses	Image
QT2000	<b>QUIKCHECK 2sec ACID TEST</b>	QwikCheck® Acid Test Kit - Fast, accurate, and easy to use, QwikCheck provides an early warning of acid problems. The Yellow to Red color change allows you to easily and clearly communicate a need for action to the equipment owner.	
KIT06815	<b>Universal Acid Alert Test</b>	ALCO Acid Alert Test - The Alco Acid Alert is a quick and easy test kit for use with all refrigeration lubricants. By changing the percentage of oil sample taken, the acid number of the oil can be accurately determined. Phase separation of the chemicals in the kit provide a positive color change regardless of the color and condition of the oil.	
45004	<b>Rectorseal Acid Neutralizer Kit</b>	Acid-Away is a unique patented chemical treatment for use in air conditioning and refrigeration systems that have experienced a burnout, or operating systems that are showing a buildup in acid content. It circulates quickly throughout the system and chemically neutralizes acids that are always left in an air conditioning or refrigeration system after a burnout occurs. Once neutralized, this acid can no longer continue its corrosive attack and cause another burnout. Acid-Away may be used in either hermetic or semi-hermetic compressors that operate with standard CFC or HCFC refrigerants using mineral oil and alkbenzene-type refrigeration oils.	
45009	<b>Rectorseal Acid Neutralizer Kit - POE Oil</b>		
CHM00413	<b>4301-02 Rx Acid Scavenger</b>	Rx-Acid Scavenger provides a better, more convenient way to neutralized or "scavenge" acid in refrigeration, air conditioning systems...after burnouts or during normal on-going systems maintenance. Normal dosage rate is 2 fl. oz. of Rx-Acid Scavenger for one gallon of system oil...50% less than other acid neutralizing products. This "low treat" feature means far less material has to be added to the systems. Rx-Acid Scavenger is formulated for use with all lubricants... Mineral, alkylbenzene and polyol ester.	

# Nu-Calgon Rx-11 Flush

Item	Description	Uses	Image
CHM00510	<b>4300-09 Rx11 Flush - 16oz.</b>	Rx11-flush is a unique solvent engineered specifically for flushing refrigeration and air conditioning systems. Based on patented HFC solvents developed by DuPont®, Rx11-flush is ozone-safe, non-toxic, and non-flammable. Used exactly like the old R-11 flushing process, its patented HFC based solvent formulation is powerful enough to flush away sludge, carbon residues, oils, acids, water and other particulate. Rx11-flush is ideal for system flushing after burnouts, during retrofits and for flushing line sets for R-410A conversions.	
CHM00410	<b>4300-11 Rx11 Flush - 32oz.</b>		
CHM00411	<b>4300-15 Rx11 Flush - 13lb. Cylinder</b>		
CHM00826	<b>4300-08 Rx11 Flush Starter Kit</b>	The complete flush kit includes: • 1 pound Rx11-flush • Rx11-flush Gun • Rx11-flush Hose • Injection Valve	
TOL03326	<b>4300-51 Rx11 Flush Gun</b>	Perfect tool for flushing line sets	
HSE01611	<b>4300-52 Rx11 Flush Hose</b>	24" hose designed for connecting gun and valve during flushing	
TOL02895	<b>4300-50 Rx11 Line Set Flush Tool</b>	Flushing Tool for facilitating line set flushing	
TOL03481	<b>4300-89 Rx11 Injection Valve</b>	New and improved valve for injecting Rx11-flush	

## Leak Detection Chemicals

Item	Description
RLF-8	Radiant Leak Finder - 8oz.
CHM00276	Spray Leak Reactant 32oz.
CHM00277	Spray Leak Reactant 1gal.



## Spectroline Leak Detection

### AR-GLO® Fluorescent AC&R Dyes

Works in all systems, including hi-pressure R-410A systems

#### EZ-Ject™ Multi-Dose Dye Injection System

- Each prefilled, disposable EZ-Ject dye cartridge treats up to 2 gallons (7.6 L) of lubricant, 25 lbs. (11.3 kg) of refrigerant or 12 tons of cooling. No pouring and no refrigerant required for injection
- One calibrated cartridge provides exact dosing for multiple systems
- Easily overcomes system pressure. Inject dye with a turn of the handle



#### GLO-STICK™ Single Dose Dye Capsules

- Prefilled, single-dose, self-cleaning, disposable dye capsules eliminate measuring, pouring and messy spills
- Treats 5.0 to 9.9 lbs. of refrigerant or 2.1 to 6 tons of cooling. No pouring and no refrigerant required for injection
- Inject dye while charging with refrigerant, or when connecting from the high to the low side
- Metering orifice prevents slugging of the compressor



Item	Description
EZ-4/ECS	EZ-Ject Multi-Dose Universal Dye Cartridge
GS-2/ECS	GLO-STICK Single-Dose Universal Dye Capsule

## Spectroline Leak Detection Kits

### EZ-100/ECS Universal Dye Injection Kit

- EZ-Ject dye injector assembly
- Hose assembly
- (2) EZ-4/ECS Universal/POE dye cartridges
- Service labels



### OPX-500CS Leak Detection Flashlight & Glasses

Compatible with all leak detection dyes

- 100,000-hour LED life
- Powered by 3 "AA" batteries
- Fluorescence-enhancing glasses
- Instant-on operation; no warm-up time required



### OPK-50EZ/E Complete EZ-Ject™ Kit

- OPX-500CS Flashlight & Glasses
- EZ-Ject dye injector assembly
- Hose assembly
- (2) EZ-4/ECS Universal/POE dye cartridges
- (3) Drip plugs for hose/coupler



## Pro-Flush Solvent

Pro-Flush is a flushing solvent for air conditioning and refrigeration systems, and is formulated for R-410A retrofits, refrigerant conversions and compressor burnouts. Pro-Flush is compatible with all refrigerants and compressor oils. Pro-Flush is the answer for technicians who need a professional quality flushing solvent as well as the components to match. All solvents in Pro-Flush are non-VOC and conform to EPA SNAP standards. Pro-Flush is not HAZMAT for storage and ground transportation. This flushing solvent is:

- Low toxicity
- Residue free

Pro-Flush is available both as a kit or in a 16 oz. solvent refill. The kit includes:

- Charging hose and large flush nozzle
- Refillable pressure tank
- 16 oz. container of Pro-Flush
- Pressure relief valve for added safety



Item	Description
PF-KIT	Pro-Flush Kit
PF-16	Pro-Flush 16oz. Flushing Solvent



## Nu-Calgon A/C EasySeal

Seals leaks in A/C and refrigeration systems  
Prevents future refrigerant leaks  
Eliminates leak search and repair

A/C EasySeal was developed from technology used to protect air conditioning systems on nuclear submarines and satellites. It was critical in these applications that any leaks that developed be sealed immediately to avoid repairs while on missions. The product circulates with the system's refrigerant, and if a leak should occur, it will quickly seal the leak and prevent the system from losing refrigerant and shutting down.



Item	Description	Mfg. #
CHM00814	AC EasySeal Leak Sealant - 3oz.	4050-06
HSE01610	EasySeal Piercing Valve & Hose	4051-99
CHM00813	AC EasySeal 2+1 Kit (2 cans + valve/hose)	4050-02

## Trane OEM Touch-Up Paint

This is only a list of the more common paint numbers. There are dozens more OEM paints available to precisely match existing units.

The **ONLY** way to properly identify the correct paint match is with the unit serial number. Please call the store for assistance.

Item	Description
PAI00082	Residential Executive Beige - 12oz.
PAI00061	Commercial Executive Beige - 12oz.
PAI00062	Commercial Executive Beige - 1gal.
PAI00074	Residential Slate Gray - 12oz.
PAI00086	Commercial Slate Gray - 12oz.
PAI00077	Commercial Slate Gray - 1gal.
PAI00246	Residential Tarpaulin Gray - 12oz.
PAI00248	Residential Anthracite Gray - 12oz.

## Trane Corrosion Protection

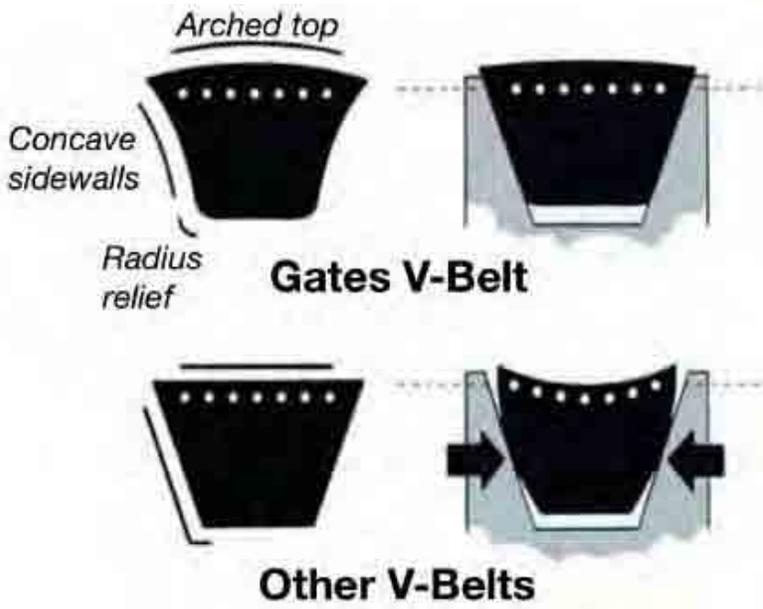
### Trane Heresite Spray Paint for Seacoast Corrosion Protection - Item # PAI00309

The atmosphere along the sea coast has increased levels of wet chloride ions. This adds to the likelihood that coils could develop "pit corrosion" between the transition joint and fins. To combat this, take a few minutes before installation of new units or replacement coils to spray and coat the transition joints up to the fins with a Heresite coating.

While two V-belts may look similar to the casual observer, the engineering and design processes used to create them can vary greatly, leading to vast differences in performance and belt life. With nearly 100 years of experience, Gates V-belt systems are constructed to outperform and outlast competitive products.



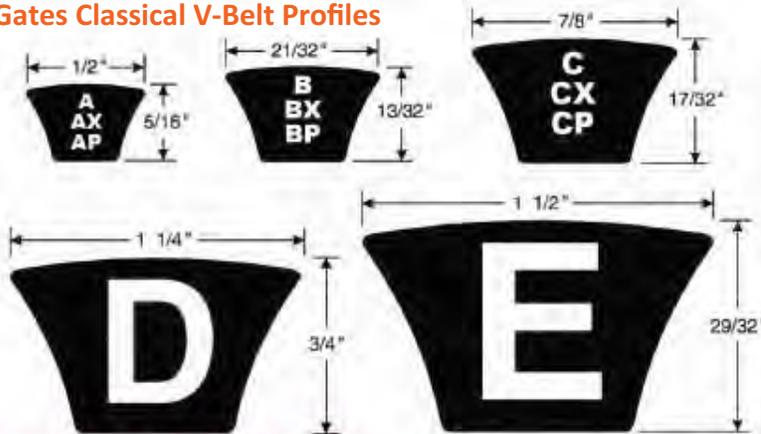
# The Shape of Power - V-Belt Curves



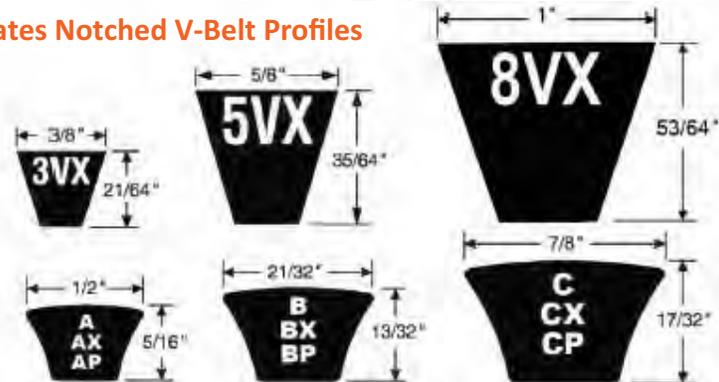
When V-belts are under tension and running in a sheave they change shape. To optimize power transmission, many Gates V-belts are designed with the exclusive Gates Curves feature. Gates Curves consist of three key components: concave sidewalls, radius relief corners and an arched top.

Concave sidewalls assure even contact with the sheave, evenly distributing wear for increased belt life. Radius relief reduces corner wear and works in conjunction with the concave sidewalls for uniform tensile loading. The arched top provides strength, preventing the “dishing” effect that is found in other belts not engineered for shape change. Because of this, the tensile members work together to carry the load evenly reducing internal stress. The superior Gates curves work to evenly distribute wear and offer uniform cord support creating more efficient drives and increased service life.

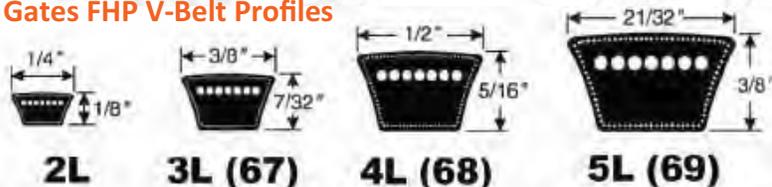
## Gates Classical V-Belt Profiles



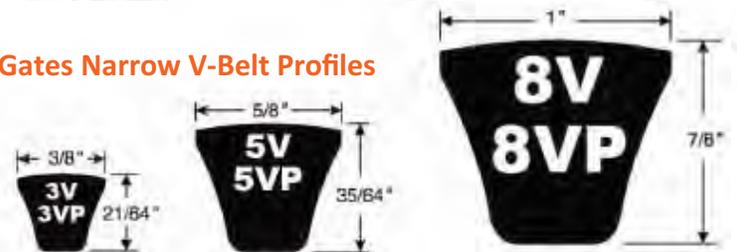
## Gates Notched V-Belt Profiles



## Gates FHP V-Belt Profiles



## Gates Narrow V-Belt Profiles



## Truflex® FHP V-Belts

Truflex® gives optimum service on fractional horsepower V belt drives including back idler applications. Truflex® is recommended for applications such as powered cultivators, lawn mowers, electrical household appliances and heating / air conditioning equipment.

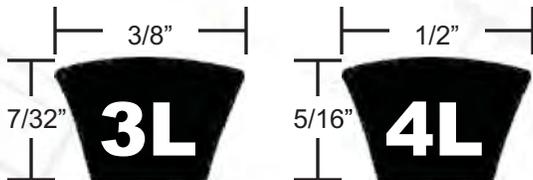
### Markets/Applications

Suitable for all industrial light duty applications, usually using fractional horsepower (FHP) motors.

### Features/Advantages

- **Gates Curves** provide proper cord support and full contact with the sheave-groove for uniform loading, uniform wear, and increased belt life.
- **Flex-Bonded Cords** are strongly bonded to the body of the belt resulting in equal load distribution and the absorption of bending stress without cord deterioration.
- **The Flex-Weave® Cover** is a patented construction for longer cover life, providing extended protection to the core of the belt from oil, dirt, and heat.
- Meets RMA **oil and heat resistant** standards.
- Meets RMA **static conductivity** requirements.

Item #	Description
3L180	1180 Trueflex Belt -- 18" O.D.
3L190	1190 Trueflex Belt -- 19" O.D.
3L200	1200 Trueflex Belt -- 20" O.D.
3L210	1210 Trueflex Belt -- 21" O.D.
3L220	1220 Trueflex Belt -- 22" O.D.
3L230	1230 Trueflex Belt -- 23" O.D.
3L240	1240 Trueflex Belt -- 24" O.D.
3L250	1250 Trueflex Belt -- 25" O.D.
4L170	2170 Trueflex Belt (A15) -- 17" O.D.
4L180	2180 Trueflex Belt (A16) -- 18" O.D.
4L190	2190 Trueflex Belt (A17) -- 19" O.D.
4L200	2200 Trueflex Belt (A18) -- 20" O.D.
4L210	2210 Trueflex Belt (A19) -- 21" O.D.
4L220	2220 Trueflex Belt (A20) -- 22" O.D.
4L230	2230 Trueflex Belt (A21) -- 23" O.D.
4L240	2240 Trueflex Belt (A22) -- 24" O.D.
4L250	2250 Trueflex Belt (A23) -- 25" O.D.



## Hi-Power® II Classic V-Belts

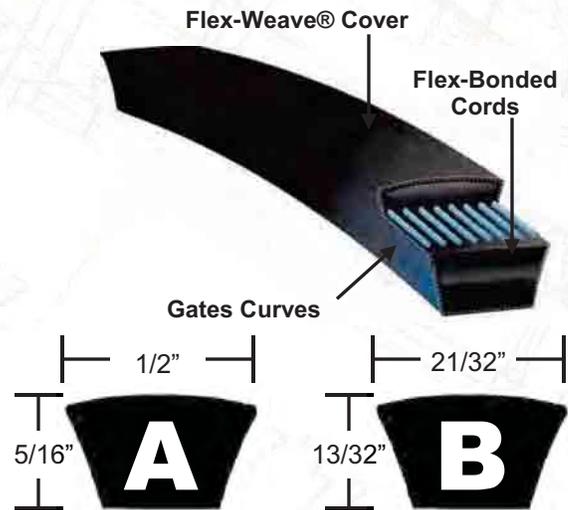
Gates Hi-Power II belts are engineered for classical applications. They have concave sidewalls to distribute wear evenly while providing proper belt support for improved service life. Flex-bonded cords and flex-weave covers make them the No. 1 choice for heavy-duty conventional V belt drives. Hi-Power II belts also resist the effects of oil, heat, ozone, weather and aging while meeting RMA standards for static conductivity. Hi-Power II belts are available in both single strand and PowerBand® "joined" belt configurations.

### Markets/Applications

Suitable for all industrial applications, including v-flat drives.

### Features/Advantages

- **Gates Curves** provide proper cord support and full contact with the sheave-groove for uniform loading, uniform wear, and increased belt life.
- **Flex-Bonded Cords** are strongly bonded to the body of the belt resulting in equal load distribution and the absorption of bending stress without cord deterioration.
- **The Flex-Weave® Cover** is a patented fabric construction for longer cover life, providing extended protection to the belt core from oil, dirt and heat.
- Meets RMA **oil and heat resistant** standards.
- Meets RMA **static conductivity** requirements.



**Hundreds of A and B belt sizes in local stock**

## PowerBand® Belts

PowerBand® belts were developed by Gates for drives subjected to pulsating loads, shock loads or extreme vibrations where single belts could flip over on the pulleys. A high-strength tie band permanently joins two or more belts to provide lateral rigidity and allow all of the strands to work together as one unit. This keeps the belts running in a straight line in the pulley grooves and eliminates jumped, flipped, tangled or separated belts. The tie band also has a self-protective feature that allows potentially damaging debris to penetrate through the top without tearing the bands apart.

- Built for lateral rigidity, belts pull together and run in a straight line on drives with pulsating or shock loads for long-lasting, trouble-free operation.
- Unique cross cord tie band allows belts to seat in pulley grooves independently but still pull together for powerful performance.



### PowerBand® Part Number Nomenclature

2/B144 3 / 5VX1000 4/5V850

# of Bands

Belt Size

## Tri-Power® Notched V-Belts

While it is important for V-belts to have high-performing physical attributes, it is essential that they are made out of material that can withstand high temperatures and resist wear. Gates molded notch V-belts are now exclusively constructed with EPDM, a high-performance synthetic rubber compound. Belts made with EPDM offer a 70% broader temperature range compared to other belts and resist hardening to avoid cracking. They meet the Rubber Manufacturers' Association (RMA) standards for oil and heat resistance as well as static conductivity.

### Markets/Applications

Suitable for all industrial applications, particularly where small or sub-minimal sheave diameters are required.

### Features/Advantages

- **Notches molded** into the belt during manufacturing make this belt well suited for drives with smaller diameter sheaves.
- **Belt Edge** is machined for even sheave groove contact resulting in less slip and wear.
- **Flex-Bonded Cords** are strongly bonded to the body of the belt resulting in equal load distribution and the absorption of bending stress without cord deterioration.
- Meets RMA **oil and heat resistant** standards.
- Meets RMA **static conductivity** requirements.

**Hundreds of AX and BX belt sizes in local stock**

## Tri-Power® Belts



Made with Gates exclusive EPDM construction, Tri-Power® V-belts can withstand a high temperature threshold while resisting oil, ozone and heat damage. Their specially-designed molded notches offer flexibility and reduced bending

stress, especially on small diameter sheaves. Fiber-loaded undercord stocks provide transverse rigidity for maximum tensile cord support, while precision-machined sidewalls provide smooth operation to reduce vibration and extend component life.

-60° F Gates EPDM +230° F

-30° F Industry Standard +140° F



## Super HC® and Super HC® Molded Notch Belts



Super HC® and Super HC® Molded Notch V-belts transmit more horsepower on drives where greater speeds, higher-speed ratios or smaller-sheave diameters are required. Super HC® belts feature flex-bonded cords and Flex-Weave® covers

for enhanced load-carrying capacity. Super HC® Molded Notch belts are constructed with EPDM for higher heat resistance and greater efficiency. They have specially designed notches and lateral rigidity to support the cord with precision-machined sidewalls for better product uniformity and consistency.

## Super HC® Molded Notch Belts

Constructed with Gates proprietary construction, this belt has a superior combination of flex and load carrying capacity, as well as transmitting more horsepower than the classical cross sections in the same amount of drive space.

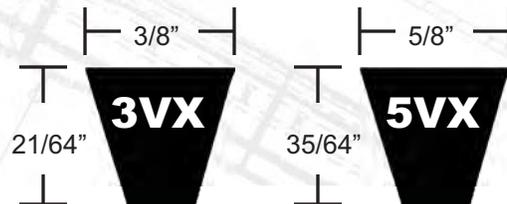
### Markets/Applications

Suitable for all industrial applications, particularly where small or sub-minimal sheave diameters are required.

### Features/Advantages

- **Notches molded** into the belt during manufacturing make this belt well suited for drives with smaller diameter sheaves.
- **Belt Edge** is machined for even sheave groove contact resulting in less slip and wear.
- **Flex-Bonded Cords** are strongly bonded to the body of the belt resulting in equal load distribution and the absorption of bending stress without cord deterioration.
- Meets RMA **oil and heat resistant** standards.
- Meets RMA **static conductivity** requirements.

**Hundreds of 3VX and 5VX belts sizes in local stock**



-60° F Gates EPDM +230° F

-30° F Industry Standard +140° F

# Gates Variable-Pitch Sheaves

## One Sheave - Adjusts to Fit 3L, 4L, 5L, A, AX, B, and BX Belts!

The principle of a variable pitch sheave is that the threaded angular faced discs forming the V-shaped groove in which the belt rides are movable. VP sheaves consist of a male with a threaded barrel, and a female with a threaded bore. The male section with threaded barrel has flat surfaces at 180 degree increments that allow a flat surface for the setscrew to mate with. When the discs are moved toward each other, the belt rides higher in the groove and the pitch diameter of the sheave is larger which increases the driven speed. When the discs are moved away from each other, the belt rides lower and the pitch diameter is smaller decreasing the driven speed.

### In Local Stock

Item #	Description
1VP34.5/8	Variable-Pitch (3L-A-B Belt) Sheave - 3-1/4" OD x 5/8" Bore
1VP40.5/8	Variable-Pitch (3L-A-B Belt) Sheave - 3-3/4" OD x 5/8" Bore
1VP40.7/8	Variable-Pitch (3L-A-B Belt) Sheave - 3-3/4" OD x 7/8" Bore
1VP44.5/8	Variable-Pitch (3L-A-B Belt) Sheave - 4-1/4" OD x 5/8" Bore
1VP44.7/8	Variable-Pitch (3L-A-B Belt) Sheave - 4-1/4" OD x 7/8" Bore
1VP50.7/8	Variable-Pitch (3L-A-B Belt) Sheave - 4-3/4" OD x 7/8" Bore
1VP50 1.1/8	Variable-Pitch (3L-A-B Belt) Sheave - 4-3/4" OD x 1-1/8" Bore
1VP56 1.1/8	Variable-Pitch (3L-A-B Belt) Sheave - 5-1/4" OD x 1-1/8" Bore



**One-Groove**



**Two-Groove**

### One-Groove Sheave Specifications - FULL LINE

Part No.	Outside Dia. (In.)	Wt. Ea. (Lbs.)	Pitch Diameter (In.)						Stock Bore (In.)									
			3L Min.	3L Max.	4L Min.	4L Max.	5L Min.	5L Max.	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 5/8	
			7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-
1VP25	2.32	1.23	1.40	2.20	—	—	—	—	1108	1110	1112	—	—	—	—	—	—	—
1VP30	2.87	1.27	1.80	2.70	—	—	—	—	1208	1210	1212	—	—	—	—	—	—	—
1VP34	3.15	1.40	2.06	2.92	2.41	3.13	2.77	3.19	1308	1310	1312	1314	1316	1318	—	—	—	—
1VP40	3.75	1.90	2.27	3.22	2.57	3.75	2.98	3.81	1408	1410	1412	1414	1416	1418	—	—	—	—
1VP44	4.15	2.95	2.70	3.50	2.80	3.80	3.10	4.10	1508	1510	1512	1514	1516	1518	—	—	—	—
1VP50	4.75	3.75	3.30	4.10	3.40	4.40	3.70	4.70	1608	1610	1612	1614	1616	1618	—	—	—	—
1VP56	5.35	4.84	3.90	4.70	4.00	5.00	4.30	5.30	1708	1710	1712	1714	1716	1718	—	—	—	—
1VP60	6	6.05	—	—	4.20	5.20	4.30	5.50	—	1720	1722	1724	—	1728	—	—	1732	1734
1VP62	5.95	6.15	4.50	5.30	4.60	5.60	4.90	5.90	—	1810	1812	1814	1816	1818	1822	1823	—	—
1VP65	6.5	3.80	—	—	4.70	5.70	4.80	6.00	—	—	1832	1834	—	1838	—	—	1839	1841
1VP68	6.55	8.35	5.10	5.90	5.20	6.20	5.50	6.50	—	1840	1842	1844	1846	1848	1852	1855	—	—
1VP71	7.1	8.90	—	—	5.30	6.30	5.40	6.60	—	—	1882	1884	—	1888	—	—	1892	1894
1VP75	7.50	9.20	—	—	5.95	6.98	6.24	7.45	—	—	1862	1864	1867	1868	—	—	1873	1875

### Two-Groove Sheave Specifications - FULL LINE

Part No.	Outside Dia. (In.)	Wt. Ea. (Lbs.)	Pitch Diameter (In.)						Stock Bore (In.)									
			3L Min.	3L Max.	4L Min.	4L Max.	5L Min.	5L Max.	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 3/8	1 5/8	
			7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-	7810-
2VP36	3.35	3.45	1.90	2.70	2.00	3.00	2.50	3.50	4358	4360	4362	4364	4366	4368	—	—	—	—
2VP42	3.95	4.30	2.50	3.30	2.60	3.60	2.90	3.90	—	4420	4422	4424	4426	4428	—	—	—	—
2VP50	4.75	6.00	3.30	4.10	3.40	4.40	3.70	4.70	—	4610	4612	4614	4616	4618	—	—	—	—
2VP56	5.35	7.50	3.90	4.70	4.00	5.00	4.30	5.30	—	4720	4722	4724	4726	4728	—	—	4732	4734
2VP60	6	10.60	—	—	4.20	5.20	4.30	5.50	—	—	4742	4744	4746	4748	—	—	4752	4754
2VP62	5.95	11.50	4.50	5.30	4.60	5.60	4.90	5.90	—	—	4812	4814	4816	4818	4830	4832	—	—
2VP65	6.5	12.70	—	—	4.70	5.70	4.80	6.00	—	—	4822	4824	—	4828	—	—	4829	4834
2VP68	6.55	13.60	5.10	5.90	5.20	6.20	5.50	6.50	—	—	4843	4844	4846	4848	4850	4852	4854	—
2VP71	7.1	15.70	—	—	5.30	6.30	5.40	6.60	—	—	4882	4884	—	4888	—	—	4892	4894
2VP75	7.50	16.50	—	—	5.40	6.58	5.84	7.05	—	—	4862	4864	4867	4868	—	—	4872	4874

# Fixed-Pitch Sheaves - QT Bushed

## QT Bushed Sheaves -- One Sheave -- Any Shaft Size!

- 1 - Find the sheave size you need
- 2 - Find the bushing for the correct shaft size
- 3 - Put them together...problem solved!



### In Local Stock



Item #	Description
AK44QT	AK (3L-4L-A Belt) Sheave - 4-1/4" OD - Needs "QT" Bushing
AK49QT	AK (3L-4L-A Belt) Sheave - 4-3/4" OD - Needs "QT" Bushing
AK54QT	AK (3L-4L-A Belt) Sheave - 5-1/4" OD - Needs "QT" Bushing
AK59QT	AK (3L-4L-A Belt) Sheave - 5-3/4" OD - Needs "QT" Bushing
AK64QT	AK (3L-4L-A Belt) Sheave - 6-1/4" OD - Needs "QT" Bushing
AK69QT	AK (3L-4L-A Belt) Sheave - 6-3/4" OD - Needs "QT" Bushing
AK74QT	AK (3L-4L-A Belt) Sheave - 7-1/4" OD - Needs "QT" Bushing
AK79QT	AK (3L-4L-A Belt) Sheave - 7-3/4" OD - Needs "QT" Bushing
BK70QT	BK (A-B Belt) Sheave - 6-3/4" OD - Needs "QT" Bushing
BK75QT	BK (A-B Belt) Sheave - 7-1/4" OD - Needs "QT" Bushing
BK80QT	BK (A-B Belt) Sheave - 7-3/4" OD - Needs "QT" Bushing
BK90QT	BK (A-B Belt) Sheave - 8-3/4" OD - Needs "QT" Bushing
BK100QT	BK (A-B Belt) Sheave - 9-3/4" OD - Needs "QT" Bushing

Item #	Description
QT.5/8	5/8" Bore QT-Type Bushing
QT.3/4	3/4" Bore QT-Type Bushing
QT.7/8	7/8" Bore QT-Type Bushing
QT 1.	1" Bore QT-Type Bushing
QT 1.1/16	1-1/16" Bore QT-Type Bushing
QT 1.1/4	1-1/4" Bore QT-Type Bushing
QT 1.1/8	1-1/8" Bore QT-Type Bushing
QT 1.3/16	1-3/16" Bore QT-Type Bushing
QT 1.3/8	1-3/8" Bore QT-Type Bushing
QT 1.5/16	1-5/16" Bore QT-Type Bushing
QT 1.7/16	1-7/16" Bore QT-Type Bushing

## Full Line Specifications

ONE GROOVE 3L - 4L (A) BELTS				ONE GROOVE 4L (A) - 5L (B) BELTS				TWO GROOVE 3L - 4L (A) BELTS				TWO GROOVE 4L (A) - 5L (B) BELTS			
ITEM	OUTSIDE DIA. (in.)		PITCH DIA. (in.)		ITEM	OUTSIDE DIA. (in.)		PITCH DIA. (in.)		ITEM	OUTSIDE DIA. (in.)		PITCH DIA. (in.)		
	DIA. (in.)	3L	4L (A)	DIA. (in.)		4L (A)	5L (B)	DIA. (in.)	3L		4L (A)	DIA. (in.)	4L (A)	5L (B)	
AK30QT	3.05	2.46	2.80	BK30QT	3.15	2.40	2.80	2AK30QT	3.05	2.46	2.80	2BK32QT	3.35	2.60	3.00
AK32QT	3.25	2.66	3.00	BK32QT	3.35	2.60	3.00	2AK32QT	3.25	2.66	3.00	2BK34QT	3.55	2.80	3.20
AK34QT	3.45	2.86	3.20	BK34QT	3.55	2.80	3.20	2AK34QT	3.45	2.86	3.20	2BK36QT	3.75	3.00	3.40
AK39QT	3.75	3.16	3.50	BK36QT	3.75	3.00	3.40	2AK39QT	3.75	3.16	3.50	2BK40QT	3.95	3.20	3.60
AK41QT	3.95	3.36	3.70	BK40QT	3.95	3.20	3.60	2AK41QT	3.95	3.36	3.70	2BK45QT	4.25	3.50	3.90
AK44QT	4.25	3.66	4.00	BK45QT	4.25	3.50	3.90	2AK44QT	4.25	3.66	4.00	2BK47QT	4.45	3.70	4.10
AK46QT	4.45	3.86	4.20	BK47QT	4.45	3.70	4.10	2AK46QT	4.45	3.86	4.20	2BK50QT	4.75	4.00	4.40
AK49QT	4.75	4.16	4.50	BK50QT	4.75	4.00	4.40	2AK49QT	4.75	4.16	4.50	2BK52QT	4.95	4.20	4.60
AK51QT	4.95	4.36	4.70	BK52QT	4.95	4.20	4.60	2AK51QT	4.95	4.36	4.70	2BK55QT	5.25	4.50	4.90
AK54QT	5.25	4.66	5.00	BK55QT	5.25	4.50	4.90	2AK54QT	5.25	4.66	5.00	2BK57QT	5.45	4.70	5.10
AK56QT	5.45	4.86	5.20	BK57QT	5.45	4.70	5.10	2AK56QT	5.45	4.86	5.20	2BK60QT	5.75	5.00	5.40
AK59QT	5.75	5.16	5.50	BK60QT	5.75	5.00	5.40	2AK59QT	5.75	5.16	5.50	2BK62QT	5.95	5.20	5.60
AK61QT	5.95	5.36	5.70	BK62QT	5.95	5.20	5.60	2AK61QT	5.95	5.36	5.70	2BK65QT	6.25	5.50	5.90
AK64QT	6.25	5.66	6.00	BK65QT	6.25	5.50	5.90	2AK64QT	6.25	5.66	6.00	2BK67QT	6.45	5.70	6.10
AK66QT	6.45	5.86	6.20	BK67QT	6.45	5.70	6.10	2AK74QT	7.25	6.66	7.00	2BK70QT	6.75	6.00	6.40
AK69QT	6.75	6.16	6.50	BK70QT	6.75	6.00	6.40	2AK84QT	8.25	7.66	8.00	2BK72QT	6.95	6.20	6.60
AK71QT	6.95	6.36	6.70	BK72QT	6.95	6.20	6.60	2AK94QT	9.25	8.66	9.00	2BK80QT	7.75	7.00	7.40
AK74QT	7.25	6.66	7.00	BK75QT	7.25	6.50	6.90	2AK104QT	10.25	9.66	10.00	2BK90QT	8.75	8.00	8.40
AK79QT	7.75	7.16	7.50	BK77QT	7.45	6.70	7.10	2AK114QT	11.25	10.66	11.00	2BK100QT	9.75	9.00	9.40
AK84QT	8.25	7.66	8.00	BK80QT	7.75	7.00	7.40	2AK124QT	12.25	11.66	12.00	2BK110QT	10.75	10.00	10.40
AK89QT	8.75	8.16	8.50	BK85QT	8.25	7.50	7.90	2AK134QT	13.25	12.66	13.00	2BK120QT	11.75	11.00	11.40
AK94QT	9.25	8.66	9.00	BK90QT	8.75	8.00	8.40	2AK144QT	14.25	13.66	14.00	2BK130QT	12.75	12.00	12.40
AK99QT	9.75	9.16	9.50	BK95QT	9.25	8.50	8.90	2AK154QT	15.25	14.66	15.00	2BK140QT	13.75	13.00	13.40
AK104QT	10.25	9.66	10.00	BK100QT	9.75	9.00	9.40	2AK184QT	18.25	17.66	18.00	2BK160QT	15.75	15.00	15.40
AK109QT	10.75	10.16	10.50	BK105QT	10.25	9.50	9.90					2BK190QT	18.75	18.00	18.40
AK114QT	11.25	10.66	11.00	BK110QT	10.75	10.00	10.40								
AK124QT	12.25	11.66	12.00	BK115QT	11.25	10.50	10.90								
AK134QT	13.25	12.66	13.00	BK120QT	11.75	11.00	11.40								
AK144QT	14.25	13.66	14.00	BK130QT	12.75	12.00	12.40								
AK154QT	15.25	14.66	15.00	BK140QT	13.75	13.00	13.40								
AK184QT	18.25	17.66	18.00	BK150QT	14.75	14.00	14.40								
				BK160QT	15.75	15.00	15.40								
				BK190QT	18.75	18.00	18.40								

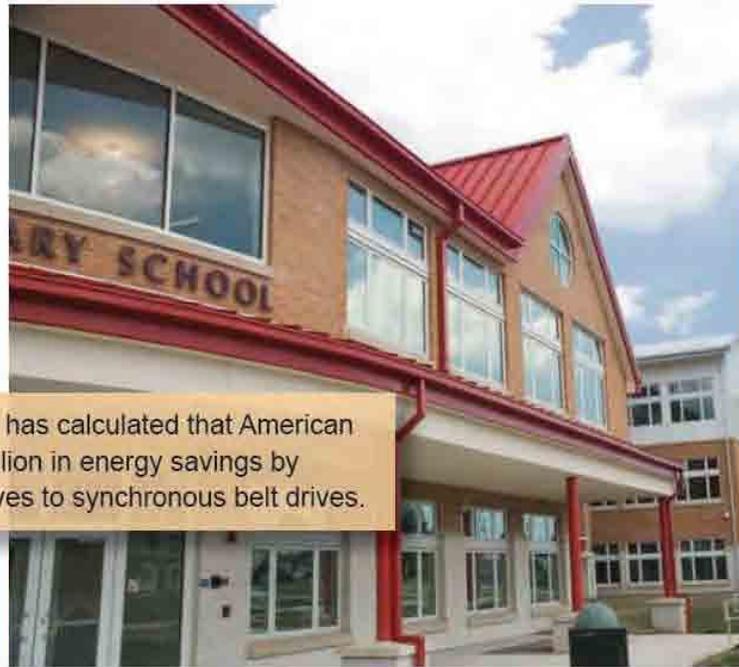
  

Sheave Type	Outside Diameter (in.)			
	AK	BK	2AK	2BK
Solid	Up to 3.25	Up to 3.55	Up to 3.75	Up to 4.25
Web	3.45 - 5.75	3.75 - 6.45	3.95 - 5.45	4.45 - 5.95
Spoke	≥ 5.95	≥ 6.75	≥ 5.75	6.25

# Realize your Energy Savings



The US Department of Energy has calculated that American business would realize \$1.5 billion in energy savings by simply converting its V-belt drives to synchronous belt drives.



## Convert to save

V-belts typically lose 5% efficiency because they slip and lose torque. They also need replacing, roughly twice a year, and that means costly downtime. What a waste.

Synchronous belt drive systems provide the maintenance free, energy efficient solution that deliver results with payback in as little as 3 months. PowerGrip® GT®2 and Poly Chain® GT® Carbon™ drive belts:

- Operate at 98% efficiency
- Eliminate downtime
- Reduce maintenance costs
- Reduce replacement costs
- Don't slip or stretch
- Don't lose speed or torque
- Don't need re-tensioning
- Don't have a "run-in" period

If you can't convert to synchronous, make an easy switch. Replace standard V-belts with Gates Super HC® Molded Notch V-Belts and realize a 2% energy savings.



# Let us show you how

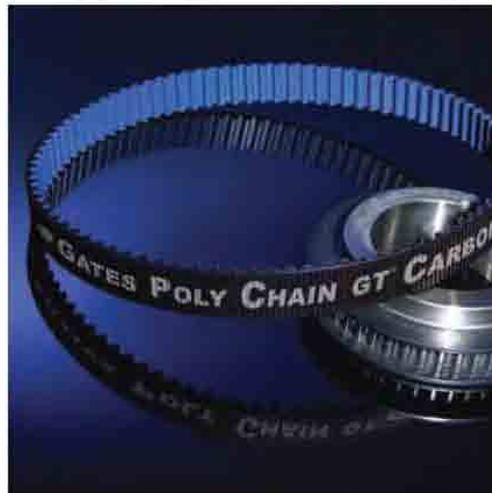
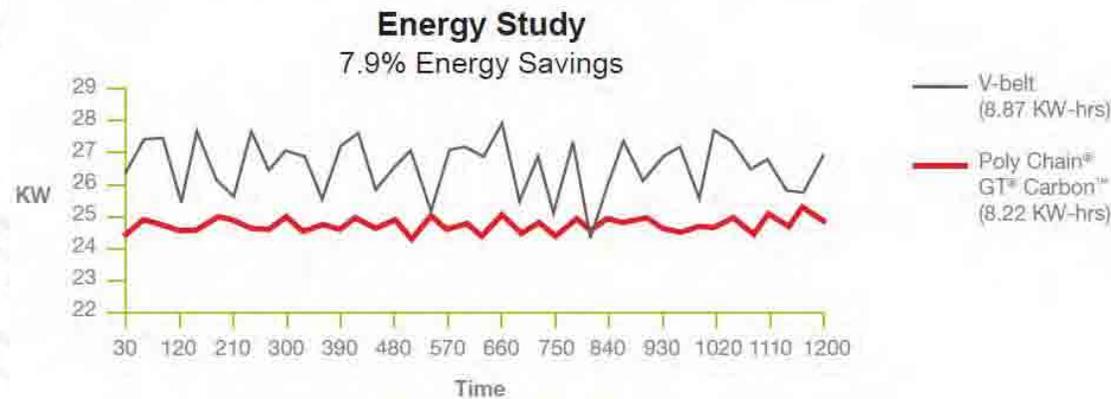
Over the past 3 years, Gates customers have confirmed \$29.4 million in cost savings. Our representatives have the knowledge and experience to help you find your solution by:

- Analyzing operational efficiencies, including maintenance time and downtime
- Targeting drive systems with the greatest potential for energy savings
- Showing you how we can redesign a drive for your specific use
- Documenting your savings in a way that's easy to understand. This will include a breakdown of replacement costs and ROI



# Changing is easier than you think

See how easy it was for a hospital to make the switch to Gates!



# Emerson Variable Frequency Drives

**Need a VFD Today? In Local Stock - Right Now!**

## The Drive for Constant Comfort

The AFFINITY is the energy saving AC drive specifically designed for HVACR building Automation systems



**EMERSON**  
Industrial Automation



## AFFINITY BA Drives

Item #	Description
BA1405-E1	5hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA1406-E1	7.5hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA1WE3	3rd - 5th Year Ext. Warranty for Emerson Size 1 BA Drives
BA2401-E1	10hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA2402-E1	15hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA2403-E1	20hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA2WE3	3rd - 5th Year Ext. Warranty for Emerson Size 2 BA Drives
BA3401-E1	25hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA3402-E1	30hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA3403-E1	40hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA3WE3	3rd - 5th Year Ext. Warranty for Emerson Size 3 BA Drives
BA4401-E1	50hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA4402-E1	60hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA4403-E1	75hp 460v AFFINITY VFD w/ NEMA 1 Conduit Box
BA4WE3	3rd - 5th Year Ext. Warranty for Emerson Size 4 BA Drives

## AFFINITY BA Packaged Drives with Bypass

Item #	Description
P40005NB2B	5hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
P40007NB2B	7.5hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
FPC1WE3	3rd-5th Yr. Ext. Warranty for Emerson Size 1 Packaged Drives
P40010NB2B	10hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
P40015NB2B	15hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
P40020NB2B	20hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
FPC2WE3	3rd-5th Yr. Ext. Warranty for Emerson Size 2 Packaged Drives
P40025NB2B	25hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
P40030NB2B	30hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
P40040NB2B	40hp 460v AFFINITY VFD w/ NEMA 1 Bypass & Fused Disconnect
FPC3WE3	3rd-5th Yr. Ext. Warranty for Emerson Size 3 Packaged Drives

## AFFINITY Benefits

- Fireman's Mode for occupant safety
- Plenum rated for installation flexibility
- Two process PID loops for advanced control
- Built-in support for BACnet and other major protocols
- SmartCard for simplified parameter storage and copying
- Easy-to-use keypad with Hand-Off-Auto control, On-board manual
- Secure drive monitoring and control with 24Vdc backup connections
- Standard two-year warranty and up to five-year warranty available



MOTORS / CONTROLS

# Integral Horsepower Motors

## Why Specify Speed Engineered® Inverter Duty Motors?

Variable frequency drives (VFDs), while offering advantages of greater control and energy savings to commercial and industrial motor users, can also cause premature winding failure in motors not designed specifically for inverter duty. Now Century engineers have developed a solid solution...Speed Engineered® Inverter Duty Motor. Speed Engineered Inverter Duty Motors are specially designed and constructed to eliminate the destructive forces that can occur when motors are applied with drives. The Speed Engineered "Corona-Free" solution eliminates the causes of premature winding failure. All Speed Engineered motors meet or exceed NEMA MG1-31 performance standards.

**E-Plus® 3** motors offer even heartier energy-efficient performance and savings, exceeding most utility conservation initiatives, in addition to meeting the 1997 EPACT standards. All E-Plus 3 motors are Speed Engineered rated for compatible inverter duty applications

### Standard Features provide operational flexibility and dependability:

- All cast-iron construction
- F-1 mounted conduit box
- Dual foot holes
- Normally closed thermostats
- Encoder provisions
- VPI corona-free Class F insulation system
- 20:1 at constant torque, standard
- 1000:1 at constant torque with the addition of a blower kit



### Adaptable to address specific process specifications:

- 120-volt A/C blower kits
- Drive end C-Face / Drive end D-Flange
- Brake kits
- **Field convertible to F-2 conduit box location**
- Provisions for mounting a wide range of encoders:
  - Dynapar HS35
  - Avtron M285
  - Lakeshore SL56
  - BEI HS 35

Item	HP	RPM	NEMA Frame Size	Voltage	Efficiency Rating	Amps	Service Factor	Shaft Size (in.)
T35026E	1	1750	143T	230/460	85.5	3.2 / 1.6	1.15	0.875
T35027E	1.5	1740	145T	230/460	86.5	4.6 / 2.3	1.15	0.875
T35028E	2	1725	145T	230/460	86.5	5.8 / 2.9	1.15	0.875
E217M2	3	1765	182T	230/460	89.5	8.6 / 4.3	1.15	1.125
E219M2	5	1760	184T	230/460	89.5	13.6 / 6.8	1.15	1.125
E317	7.5	1760	213T	230/460	91.7	19.4 / 9.7	1.15	1.375
E397	10	1755	215T	230/460	90.2	30.0 / 15.0	1.15	1.375
E451	15	1770	254T	230/460	93.0	37.8 / 18.9	1.15	1.625
E407	20	1765	256T	230/460	93.6	49.0 / 24.5	1.15	1.625
E514	25	1765	284T	230/460	93.6	61.0 / 30.5	1.15	1.875
E516V2	30	1765	286T	230/460	94.1	73.2 / 36.6	1.15	1.875
T35037	40	1770	324T	230/460	94.1	97.0 / 48.5	1.15	2.125
T35038	50	1770	326T	230/460	94.5	121.0 / 60.5	1.15	2.125



MOTORS / CONTROLS

## Single-Phase 5-5/8" Diameter Commercial Condenser Fan Motors

Item #	HP	RPM	Voltage	F.L. Amps		Insul. Class	Ambient	Shaft Type	Capacitor
				230v	460v				
FC1046F	0.4	1075	200-230/460	3.2	1.6	F	70°C	1/2" Flat-A	5mfd/440v
FC1066F	0.6	1075	200-230/460	4.0	2.0	F	70°C	1/2" Flat-A	7.5mfd/440v
FC1086F +	0.8	1075	200-230/460	4.6	2.3	F	70°C	1/2" Flat-A	20mfd/370v
FC1106F *	1.0	1075	200-230/460	6.4	3.2	F	70°C	5/8" Flat & Key-B	25mfd/370v
FC1156F *	1.5	1075	200-230/460	7.0	3.5	F	70°C	5/8" Flat & Key-B	25mfd/370v



+ Includes 5/8" adapter and key

\* All 1 HP and 1-1/2 HP motor supplied with conversion kit allowing to be used in most 56 frame applications

- Class F Insulation
- Vertical shaft up only
- 48 Frame
- Energy Efficient \$
- Patented Fan Canopy
- Auto Protector
- Heavy duty Ball Bearing
- 70° C Ambient
- Reversible

## Three-Phase 56 Frame 70° Ambient Removable Base Motors

Item	HP	Volts	Amps	RPM	Speeds	Frame	Rotation	Type	Bearing	Total	Shaft
										Length	Length
H1055A	1/2	460/200-230	1.3/2.8-2.6	1140	1	56HZ	Rev.	3-Phase	Ball	16.40	5/8" x 6"
H1056A	3/4	460/200-230	1.5/2.8-3.0	1140	1	56HZ	Rev.	3-Phase	Ball	16.51	5/8" x 6"
H1050A	1	460/208-230	2.2/4.4-4.0	1140	1	56HZ	Rev.	3-Phase	Ball	16.63	5/8" x 6"
H1051A	1-1/2	460/208-230	2.9/5.8-5.8	1140	1	56HZ	Rev.	3-Phase	Ball	17.63	5/8" x 6"
H1052A	2	460/208-230	3.7/7.4-7.0	1140	1	56HZ	Rev.	3-Phase	Ball	18.63	5/8" x 6"
H1053A	1	460/208-230	2.6/5.2-5.0	850	1	56HZ	Rev.	3-Phase	Ball	18.63	5/8" x 6"
H1054A	1-1/2	460/208-230	3.6/6.7-7.2	850	1	56HZ	Rev.	3-Phase	Ball	19.13	5/8" x 6"



- Inverter duty
- Removable 56H rigid base
- 70°C (158°) max ambient
- Class F moisture resistant insulation
- Automatic overload protector
- Large water slinger
- Double sealed ball bearings
- Positioning lugs for easy belly-band mounting
- Shaft up mounting
- Quick connect design
- Conductive bearing grease for inverter apps.
- Three phase, continuous duty, air over

# Universal Fan Blade by Axiom

Covers all Residential and Most Commercial A/C Systems

## Item # VFU 16-26

### Configure 7 Different Blade Lengths

14"-16"-18"-20"-22"-24"-26"

### 8 Different Pitch Choices

4 CW & 4 CCW

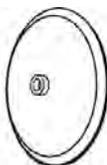
### Comes with (2) Universal Hubs

1/2" or 5/8" With A Key Slot



- Replaces 2-3-4 & 5 Blade Applications
- Can Be Mounted Either Clockwise or Counter Clockwise
- Anti Corrosive Nickel Plated Hub Makes Corrosion Impossible
- Universal Reinforced Nylon Compound Hub w/ Dual Set Screws
- Unique Material Provides a Balanced Fan Blade... Every Time
- Quieter & Lighter Than Most Metal Blades
- UV Protected Material

## Rain Shields



Item #	Description
SLG00053	1/2" Bore - 42 Frame Shield
SLG00056	1/2" Bore - 48 Frame Shield
SLG00123	5/8" Bore - 48 Frame Shield
SLG00114	5/8" Bore - Vented Rainhat
SLG00032	5/8" Bore - Small Shaft Shield

## Motor Mounts

Item #	Description
DMB-1	Fixed Lug Assembly for 5.5" Motors
DMB-2	Adjustable Lug Assembly for 5.5" Motors
DMB-3	5.5" Motor Mount Torsion Flex Bracket
A60306K	Motor Mounting Plate for Rheem Condensers



DMB-1 / DMB-2



DMB-3



A60306K

# Century "HeatMaster" Condenser Motors

- **70°C (158°F) Max Ambient** - UL and CSA rated for 70°C (158°F) max ambient temperatures
- **Class F Insulation** - UL and CSA recognized, non-hygroscopic Class F insulation system achieves superior dielectric strength for long thermal life
- **Extended Warranty** - All HeatMaster® motors carry a 3-year warranty from date of manufacture or 2 years from the date of installation
- **Efficiency** - Conservationist: energy-efficient PSC designs
- **TEAO** - Totally Enclosed motors suitable for all angle mounting
- **Reversible** - Supplied with water-resistant reversing plugs for quick, easy rotation change
- **High Temperature** - High temperature automatic overload protectors reduce nuisance trip outs.
- **Leads** - 36" color coded high-temperature leads for easy identification and installation
- **Water Seal** - Water-resistant rubber grommet at lead opening eliminates water seepage into the motor
- **Windings** - 100% copper windings and optimum winding design minimize losses – resulting in higher efficiencies, increased motor life and lower operating cost
- **Bearings** - Double sealed anti-friction ball bearings or dependable high-performance all-angle sleeve bearings for long reliable life



## 825 RPM

Item	HP	Volts	Amps	RPM	Speeds	Frame		Rotation	370v Cap	Bearing	Shell	
						Size	Length				Length	Shaft Size
FSE1008SF	1/8	208-230	1.0	825	1	48	Reversible	5MFD	Sleeve	4.24"	1/2"	X 6-1/2"
FSE1018SF	1/6	208-230	1.1	825	1	48	Reversible	5MFD	Sleeve	4.11"	1/2"	X 6-1/2"
FSE1028SF	1/4	208-230	1.5	825	1	48	Reversible	5MFD	Sleeve	4.61"	1/2"	X 6-1/2"
FSE1038SF	1/3	208-230	2.1	825	1	48	Reversible	7.5MFD	Sleeve	5.11"	1/2"	X 6-1/2"
FSE1058SF	1/2	208-230	2.5	825	1	48	Reversible	10MFD	Sleeve	5.61"	1/2"	X 6-1/2"

## 1075 RPM

Item	HP	Volts	Amps	RPM	Speeds	Frame		Rotation	370v Cap	Bearing	Shell	
						Size	Length				Length	Shaft Size
FSE1016SF	1/6	208-230	1.4	1075	1	48	Reversible	5MFD	Sleeve	3.99"	1/2"	x 6-1/2"
FSE1026SF	1/4	208-230	2.0	1075	1	48	Reversible	5MFD	Sleeve	4.36"	1/2"	x 6-1/2"
FSE1036SF	1/3	208-230	2.8	1075	1	48	Reversible	7.5MFD	Sleeve	4.86"	1/2"	x 6-1/2"
FSE1056SF	1/2	208-230	4.0	1075	1	48	Reversible	10MFD	Sleeve	5.36"	1/2"	x 6-1/2"
FSE1076SF	3/4	208-230	5.1	1075	1	48	Reversible	15MFD	Sleeve	5.61"	1/2"	x 6-1/2"

# Century Multi-HP Condenser Motors

## Century Multi-HP MasterFit

### 70°C Ball-Bearing Motor with a Multi-Tap Capacitor

FE6001F	1/3 -1/6hp	825rpm	208-230v	Condenser Motor w/ Capacitor
FE6000F	1/3 -1/6hp	1075rpm	208-230v	Condenser Motor w/ Capacitor
FE6002F	1/2 -1/5hp	1075rpm	208-230v	Condenser Motor w/ Capacitor



- Energy Efficient
- 2 Speed
- 70° C (158°F) Ambient
- Class F Insulation
- 60 Hertz
- Totally Enclosed
- Permanent Split Capacitor
- Automatic Protector

- Reversible
- All Position Mounting
- Mounts by Belly Band, Thru Bolts Shell Holes
- Extended Thru Bolts
- Rheem Mounting Holes in Shell
- End Frame Mounting Holes For Rheem and Trane



MOTORS / CONTROLS

Item	HP	370v Capacitor		Speed to Use	Amps	RPM	Volts	Bearings	Lead Lengths	Shell Length	Shaft Length
		208V	230V								
FE6001F	1/3	10	7.5	High	1.9	825	208-230	Ball	48"	5.24"	1/2" x 6.5"
	1/4	10	7.5	High	1.5						
	1/5	10	7.5	Low	1.2						
	1/6	10	7.5	Low	1.0						
FE6000F	1/3	7.5	5	High	2.6	1075	208-230	Ball	48"	4.74"	1/2" x 6.5"
	1/4	7.5	5	High	2.5						
	1/5	7.5	5	Low	2.0						
	1/6	7.5	5	Low	1.8						
FE6002F	1/2	12.5	10	High	3.9	1075	208-230	Ball	48"	5.36"	1/2" x 6.5"
	1/3	12.5	10	High	2.2						
	1/4	12.5	10	Low	1.6						
	1/5	12.5	10	Low	1.3						

## Century 4-in-1®

### “One Simple Connection is all you need”

- UL/CSA approved Class B insulation
- Energy-efficient PSC design
- Reversing connectors
- Durable ball bearings or dependable all-angle sleeve bearings
- Mounts by belly band, adjustable extended thru-bolts, or Rheem mounting holes, with screws supplied
- All-angle mount
- Lead length 36" to 48"
- 60 Hertz
- Totally enclosed
- Continuous duty, air over
- UL and CSA recognized



### 4-in-1® Multi-horsepower Replacement Motors - Easy installation, one capacitor and two leads

Item	HP	Volts	Approx. Amps	Approx. RPM	Speeds	370v Cap	Bearing	Shell Length	Shaft Length	Rotation
ORM5488	1/3	208-230	2.1	825	1	7.5MFD	Sleeve	4.86	1/2" X 6-1/2"	Reversible
	1/4		1.4	865						
	1/6		1.2	875						
	1/8		1.1	882						
ORM5458	1/3	208-230	2.0	1075	1	7.5MFD	Sleeve	4.00	1/2" x 6-1/2"	Reversible
	1/4		1.3	1140						
	1/5		1.1	1155						
	1/6		1.0	1160						

# RESCUE® The Ultimate Truck Stock Motor™

Condenser Fan Motors

## Product Overview

- 60°C (140°F) Ambient Rated
- Special Treated Rotor for Longer Life
- Mounts with Thru-Bolts, Lead End and Side Shell Holes or Belly Band
- 48" Leads with Flag Terminals
- Extended Mounting Studs
- Ball-Bearing Design
- Reversible Rotation
- All-Position Mount Totally Enclosed
- Flat Lead End for Shaft
- Down Applications



There are many imitations  
but only one Rescue.™

### EZ-FIT® Motor Mounting Bracket

Assembled out of the box to use as a clam shell replacement. Easily adapts to a 4.4" or 4.6" bolt circle for other applications.



On RESCUE® 5.6" diameter motors lead end blind holes (4) are for mounting on Rheem® and Trane® units requiring grill mount motors. Special screws are provided.



Item	Mfg. #	HP Range	RPM	Voltage	Ambient	Speeds	370v Cap	Amps	Shaft	Total
MOT11099	5464	1/3 - 1/6	825	208-230	60C(140F)	2	7.5	1.9	5.0	10.3
MOT09987	5462	1/3 - 1/6	1075	208-230	60C(140F)	2	5.0	2.6	5.0	9.6
MOT11100	5465	1/2 - 1/6	1075	208-230	60C(140F)	2	10.0	3.0	5.0	10.3

## "Service First" Multi-HP Condenser Motors



The Condenser Fan Motors, which are motors that cover applications from 1/2 hp down to 1/6 hp units and feature ball bearings, resilient rings, 825 or 1075 RPM rating and extended mounting studs. Similar to your new offering of Multi-Horsepower Furnace Blower Motors, ServiceFirst can offer reduced inventory, versatility and valuable savings time because of its multi RPM range.



Item #	Description
MOT13183	Service First Multi-HP Condenser Motor - 1/3 - 1/6hp 825rpm
MOT13776	Service First Multi-HP Condenser Motor - 1/3 - 1/6hp 1075rpm
MOT13182	Service First Multi-HP Condenser Motor 1/2 - 1/5hp 1075rpm

MOTORS / CONTROLS

# RESCUE® The Ultimate Truck Stock Motor™

Furnace and Air Handler Direct Drive Blower Motors

## Features

- 48 Frame, 5.6" Diameter
- 1075 RPM applications
- Mounts with Thru-Bolts, Shell Holes or Belly Band
- 36" Leads
- Extended Mounting Studs
- 2.5" Diameter Hub Rings Included



Item	Mfg. #	HP Range	RPM	Voltage	Speed Taps	370v Cap	Amps	Bearing	Shaft Length	Total Length
MOT09985	5460	1/2 - 1/6	1075	115	4	7.5 - 12.5	7.3	SAB	5.5	10.3
MOT09986	5461	1/2 - 1/6	1075	208-230	4	5 - 10	3.6	SAB	5.0	10.3
MOT10275	5471	3/4 - 1/5	1075	208-230	4	10 - 20	3.8	Ball	5.0	11.6

## Century Multi-HP Blower Motors

### Features

- Energy Efficient
- 4 Speed
- 40° C Ambient
- Class B Insulation
- Open Dripproof
- Reversible
- Permanent Split Capacitor
- Resilient Rings
- Mounts by Belly Band, Thru Bolts or Shell Holes
- Extended Thru Bolts
- Rheem Mounting Holes in Shell
- All Purpose Capacitor Included



Item	HP	370v Cap	Speeds to Use	Amps	RPM	Volts	Bearing	Lead Lengths	Shell Length	Shaft Length
FDL6001A	1/2	10 mfd	All	7.0	1075	115	Sleeve	36"	4.86"	1/2" x 5"
	1/3	5 or 7.5* mfd	All	6.7						
	1/4	5 or 7.5* mfd	Lo,Med-Lo,Med-Hi	4.4						
	1/5	5 or 7.5* mfd	Lo,Med-Lo	3.2						
	1/6	5 or 7.5* mfd	Lo	2.4						
FD6000A	1/2	10 mfd	All	3.9	1075	208-230	Sleeve	36"	4.86"	1/2" x 5"
	1/3	5 or 7.5* mfd	All	3.6						
	1/4	5 or 7.5* mfd	Lo,Med-Lo,Med-Hi	2.5						
	1/5	5 or 7.5* mfd	Lo,Med-Lo	1.8						
	1/6	5 or 7.5* mfd	Lo	1.3						
FD6001A	3/4	10 mfd	All	4.0	1075	208-230	Ball	36"	4.86"	1/2" x 5"
	1/2	10 mfd	All	3.6						
	1/3	5 or 7.5* mfd	All	3.0						
	1/4	5 or 7.5* mfd	Lo,Med-Lo,Med-Hi	2.3						
	1/5	5 or 7.5* mfd	Lo,Med-Lo	2.0						

\* Motor is approximately 10% stronger and has higher starting torque for 1/6, 1/5, 1/4, and 1/3 HP rating with the 7.5 mfd 370vac capacitor

## "Service First" Multi-HP Blower Motors



Item	Description
MOT13185	Service First Multi-HP Blower Motor - 1/2-1/6hp 1075rpm
MOT13187	Service First Multi-HP Blower Motor - 3/4-1/5hp 1075rpm



## Century Indoor Blower Motors

STANDARD EFFICIENCY, replaces GE 3583, 84, 85, 86, 87, 88, 89, 90 (Cap Not Included)



Item	HP	RPM	Speeds	Volts	Rated Amps	Max.	370v Cap	Bearings
D1026	1/4	1075	3	208-230	1.8	2.2	5MFD	Sleeve
D1036	1/3	1075	3	208-230	2.6	3.1	5MFD	Sleeve
D1056	1/2	1075	3	208-230	3.2	4.3	7.5MFD	Sleeve
D1076	3/4	1075	3	208-230	4.0	5.0	10MFD	Sleeve

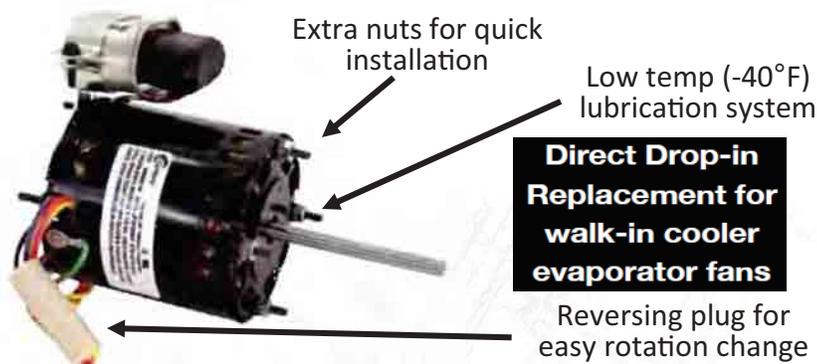
MOTORS / CONTROLS

# Refrigeration Motors

## 3-in-1™ Motor

3.3" Diameter PSC Motor  
Replaces 1/12, 1/15, 1/20 HP  
PSC and Low Efficient  
Shaded Pole Designs

Heatcraft Replacement Motor for  
Bohn, Chandler, Climate Control, and Larkin



Item	HP	Volts	Amps	RPM	Speeds	Shell Length	Shaft Dia. & Length	Rotation
9721	1/12,1/15,1/20	115/208-230	1.1/0.5	1550	1	3.6"	5/16" x 3-1/4"	Reversible

Item	HP	Volts	Amps	RPM	Speeds	Frame	Service Factor	Rotation
9720A	1/12	208-230	0.5	1550/1400	1	3.3"	1.0	CCWSE

### Features

- Permanent Split Capacitor
- Capacitor Included
- Sleeve Bearing
- Thermally Protected
- 40°C Ambient
- Single Phase
- Insulation Class B
- Lyall two prong plug
- 416 Stainless Steel Shaft
- UL Approved and CSA Cert.

### Replacement for:

- Emerson 9656
- Fasco D1125
- Fasco 7190-0442
- Fasco 7190-2084
- OEM Part Numbers:  
• 7071061 & 25309101



MOTORS / CONTROLS

# Unit Bearing Fan Motors

**iMotor®**



Direct Drop-in  
Replacement for  
supermarket case  
evaporator fans  
and condenser units.

## 9 WATT

Replaces 6, 9, & 12 Watt  
PSC & low efficiency  
shaded pole motors

## 16 WATT

Replaces 14, 15, & 16 Watt  
PSC & low efficiency  
shaded pole motors

### Features

Advanced ECM Design • Rain Shield • Cast Iron • 15" Leads • Lyall Plug • Up to 65% Efficiency  
Wide temperature range oil for use in evaporators and condensers

### Tapped & Drilled Mounting Holes

Condenser Mount-Double Boss  
Evaporator Mount – Standard 3-hole / Hussmann 4-hole style

Item	Watts	Volts	Amps	Rotation	RPM
9207F2	6, 9, 12	115	0.2 - 0.3	CW	1550
9208F2	14, 15, 16	115	0.47 - .058	CW	1550

**New Design!**  
For Evaporator &  
Condenser Application

# "C" Frame / 3.5" Round Utility Motor Kit

Versatile replacement for all "C" Frame and 3-1/2" Round Style Motors

For Reach-In Cooler and Freezer Evaporators • Walk-In Coolers • Exhaust Fans • Ventilator Fans  
Range Hoods • Electric Unit Heaters • Forced Air Heaters

Item #	Stack Size	RPM/Speeds	Volts	Amps	Shaft Diameter x Length	Rotation
C01670	5/8"	3000/1	120	0.40	3/16" x 1-3/8"	Reversible



# Refrigeration Controls

## Paragon 9000 Series Defrost Controls

The Paragon 9045 and 9145 Universal Defrost Timers are the only multi-voltage defrost timers engineered to refrigeration standards!

- Real-time clock
- Initiate 15 minute manual defrost
- System status indicators
- Lighted display shows defrost start time and duration
- 100 hours of power loss protection for both time and defrost schedule
- Certified to UL873 standard for temperature indicating and regulating equipment, as refrigeration controllers
- Withstands the most rigorous refrigeration applications
- Wires directly to 120V AC, 208V AC or 230V AC power sources without jumpers or switches
- Easy programming, easy set-up, set time, set defrost start and defrost end



Item	Paragon #	Description
TMR00238	9045-00	Time Initiate / Time Terminate Defrost Timer
TMR00239	9145-00	Time Initiate / Temperature, Pressure

## Grasslin by Intermatic Defrost Timer

Mechanical time switch designed for defrost control of refrigeration equipment, stand-up coolers and freezer cases.

- 40 Amp rated contacts
- Captive trippers are independently adjustable for full or partial defrost cycles in 15 minute intervals
- Time initiated, temperature, pressure or time-terminated
- "Real time" clock face for quick, easy and accurate setting
- Field adjustable multi-voltage DIP switch for 120, 208, 240 Volts
- Multi-voltage feature reduces the need to stock additional SKUs
- Red and green LED lights indicate defrost or refrigeration cycle
- NEMA 3R standard outdoor enclosure



Item	Mfg. #	Enclosure	Defrost Freq. Per Day	Defrost Duration
TMR00230	DTMV40	NEMA 3R	1 to 24	15-180 Min.
SEN02024	DTMV40-M	Mechanism Only	1 to 24	15-180 Min.

MOTORS / CONTROLS

## O Series Temperature Controls

These controls offer a full-featured electronic replacement for electrical-mechanical temperature controls used in many commercial refrigeration applications. Temperature ranges shown in the selection chart are tailored to specific applications. The standard 3° to 20°F adjustable differential allows controls to be used both for air sensing at the narrow differential settings, and evaporator coil sensing at wider differential settings.



Item	Ranco #	Range (°F)	Differential	Capillary
<b>Low Temperature</b>				
CNT04811	O10-1408	(15) to 40	3 to 20 (°F)	72"
<b>Medium Temperature</b>				
CNT04807	O10-1416	0 to 55	3 to 20 (°F)	72"
CNT04805	O10-1418	0 to 55	3 to 20 (°F)	Air Coil
CNT04791	O10-1409	0 to 55	3 to 20 (°F)	72" *
<b>High Temperature</b>				
CNT04907	O10-1410	25 to 75	3 to 20 (°F)	72"

\* with remote bulb

## Electronic Temperature Control (ETC)

These controls offer a full-featured electronic replacement for electrical-mechanical temperature controls used in many commercial refrigeration applications.



Item	Ranco #	# of Stages	Voltage
CNT04777	ETC-111000	1	120/208/240v
CNT04797	ETC-112000	1	24v

## A12 Constant Cut-In Control

The Ranco A12 Controls provide a constant Cut-In feature. The constant Cut-In design is generally used to provide an Off-Cycle defrost function. Each time the control cycles off, the control contacts will remain "open" until the evaporator is cleared of any frost that may have accumulated from the previous "On" Cycle.



Item	Ranco #	Normal Warm		Cut-In		Capillary Length
		Off	Off	Cold Off	Constant	
CNT04782	A12-700	18 (°F)	26 (°F)	11.5 (°F)	37 (°F)	84"
CNT04776	A12-701	23.5 (°F)	31 (°F)	15 (°F)	41 (°F)	84"
CNT04796	A12-1506	15 (°F)	22 (°F)	9 (°F)	38 (°F)	39 x 3/8 x 1-3/8"
CNT04783	A12-1560	24 (°F)	29 (°F)	19 (°F)	38 (°F)	72"

## Fan Cycle Head Pressure Controls

These components control the starting and stopping of the condenser fan motor to maintain the system head pressure.

- Model O10-2054 offers high amp contacts, handling most loads.
- Model O16-108 offers SPDT design, ideal for:
  - Fan cycling control
  - High-limit control with alarm (unused terminal can be wired to an alarm to signal a high-pressure cut-out)

Item	Ranco #	Range (PSIG)	Differential (PSI)	Capillary
CNT04778	O10-2054	100 to 400	40 to 150	36" w/ Flare Nut
CNT04785	O16-108	100 to 400	40 to 150	36" w/ Flare Nut

## O Series Low Pressure Controls

- Controls available for most refrigerant types
- High-amp rated switch (SPST) design (O10-1402/O10-1483)
- Adjustable differential and range



Item	Ranco #	Range	Differential	Capillary
CNT04779	O10-1402	(12") to 50 PSIG	5 to 35 PSI	36" w/ Flare Nut
CNT04781	O10-1483	(10") to 100 PSIG	10 to 40 PSI	36" w/ Flare Nut
CNT05990	O16-624	(12") to 80 PSIG	5 to 38 PSI	36" w/ Flare Nut

## O Series Dual Pressure Controls

Ranco dual pressure controls combine the functions of a single high-pressure limit control and a single low-pressure control in one unit with a single pole, single throw (SPST) switch.

- Convertible feature allows selection of manual or reset function when operating at high pressure (O12-4833/O12-4834)
- A wide range of high-pressure manual or automatic reset controls can be replaced with either the O12-4833 or O12-4834 models



Item	Ranco #	Low Pressure		Differential	High Pressure		Differential	Capillary
		Reset	Range		Reset	Hi Pressure Range		
CNT04808	O12-4833	Auto	(12") to 50 PSIG	5 to 35 PSI	Auto or Manual	150 to 450 PSIG	Fixed @ 70PSI drop	48" w/ Flare Nut
CNT04793	O12-4834	Auto	(10") to 100 PSIG	10 to 40 PSI	Auto or Manual	150 to 450 PSIG	Fixed @ 70PSI drop	48" w/ Flare Nut
CNT04792	O12-1549	Auto	(10") to 100 PSIG	10 to 40 PSI	Auto	150 to 450 PSIG	Fixed @ 70PSI drop	36" w/ Flare Nut

# Transformers

Item	VA	Primary	Secondary	Mounting / Notes
T2404	40	120/208/240v	24v	Foot Mount
T3501	50	120/208/240v	24v	Multi-Mount
T7752	75	120/208/240/480v	24v	Foot Mount w/ Circuit Breaker Reset
T7750	100	120/208/240/480v	24v	Foot Mount w/ Circuit Breaker Reset



T2404



T3501



T7750 / T7752

## SwitchCap™ Dual Multiple Value Capacitor

SwitchCap™ Dual Multiple Value Capacitor provides two, easily switchable, capacitors in one simple package. Using easy to set switches, rather than jumper wires, SwitchCap™ is the future of multiple value capacitors.

SwitchCap™  
Dual Multiple Value  
Capacitor



SwitchCap™  
Dual Multiple Value  
Capacitor



SwitchCap™  
Dual Multiple Value  
Capacitor



**No Jumper Wires Needed**

**Integral Mounting Tabs**

**Non-Conductive Polymer Enclosure**

SwitchCap™  
Dual Multiple Value  
Capacitor



DiversiTech's SwitchCap™ Dual Multiple Value Capacitor features an extremely wide capacitance range. For the Herm side, values from 15 to 60 micro-Farads are available. For the Fan side 3 to 10.5 microFarads are your selections. Combined, the total capacitance value is 70.5 microFarads.

**Better Heat Sink**

Item #	Description
SCAP-60D	SwitchCap Dual Multiple-Value Capacitor

## Turbo 200™ Multi-Tap Capacitors

**The Turbo®200 Mini** - engineered to replace single value "Fan-Size" Motor-Run Capacitors 2.5MFD to 12.5MFD, 370VAC to 440VAC.

**The Turbo®200 capacitor** - a combined total of 67.5 microfarads (mfd), with taps at 2.5mfd, 5.0mfd, another 5.0mfd, 10.0mfd, 20.0mfd and 25.0mfd.

**The Turbo®200 X Capacitor** - a combined total of 97.5 Microfarads. 5.0 MFD, 5.0 MFD, 7.5 MFD, 10.0 MFD and 50.0 MFD. Ideally designed for replacement range of 25/5 through 90/7.5 Microfarads. For single and dual value usage.

Item #	Description
CPT01663	Turbo 200 Multi Capacitor
CPT01664	TURBO 200X Multi Capacitor
CPT01665	TURBO Mini Multi Capacitor



# Standard Run Capacitors

## Oval - Single Capacitance

Size / Item #	Mfg. #
3/440 OVAL	45030H
4/440 OVAL	45040H
5/440 OVAL	45050H
6/440 OVAL	45060H
7.5/440 OVAL	45075H
10/440 OVAL	45100H
12.5/440 OVAL	45125H
15/440 OVAL	45150H
20/440 OVAL	45200H



## Round - Single Capacitance

Size / Item #	Mfg. #
25/440 ROUND	45250R
30/440 ROUND	45300R
35/440 ROUND	45350R
40/440 ROUND	45400R
45/440 ROUND	45450R
50/440 ROUND	45500R
55/440 ROUND	45550R
60/440 ROUND	45600R
70/440 ROUND	45700R
80/440 ROUND	45800R



## Round - Dual Capacitance

Size / Item #	Mfg. #
20+5/440 ROUND	4JR0520
25+5/440 ROUND	4JR0525
25+7.5/440 ROUND	4JR7525
30+5/440 ROUND	4JR0530
30+7.5/440 ROUND	4JR7530
35+5/440 ROUND	4JR0535
35+7.5/440 ROUND	4JR7535
40+5/440 ROUND	4JR0540
40+7.5/440 ROUND	4JR7540
45+5/440 ROUND	4JR0545
45+7.5/440 ROUND	4JR7545
50+5/440 ROUND	4JR0550
50+7.5/440 ROUND	4JR7550
55+5/440 ROUND	4JR0555
55+7.5/440 ROUND	4JR7555
60+5/440 ROUND	4JR0560
60+7.5/440 ROUND	4JR7560
60+10/440 ROUND	4JR1060
70+5/440 ROUND	4JR0570
70+7.5/440 ROUND	4JR7570
80+5/440 ROUND	4JR0580
80+7.5/440 ROUND	4JR7580
80+10/440 ROUND	4JR1080



MOTORS / CONTROLS

# Trane Premium Run Capacitors

## Oval - Single Capacitance

Item	Size
CPT00763	3/440 Oval
CPT00161	4/440 Oval
CPT00119	5/440 Oval
CPT00221	6/440 Oval
CPT00203	7.5/440 Oval
CPT00088	10/440 Oval
CPT00422	12.5/440 Oval
CPT00206	15/440 Oval
CPT00231	20/440 Oval



## Round - Single Capacitance

Item	Size
CPT00467	25/440 Round
CPT00456	30/440 Round
CPT00235	35/440 Round
CPT00236	40/440 Round
CPT00237	45/440 Round
CPT00238	50/440 Round
CPT00239	55/440 Round
CPT00392	60/440 Round
CPT01233	70/440 Round
CPT01074	80/440 Round



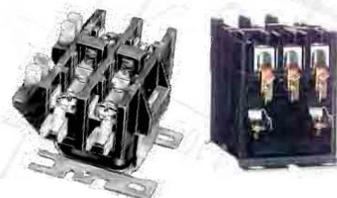
## Round - Dual Capacitance

Item	Size
CPT00690	20+5/440 Round
CPT00695	25+5/440 Round
CPT00659	30+5/440 Round
CPT02048	30+7.5/440 Round
CPT00977	35+5/440 Round
CPT01248	35+7.5/440 Round
CPT00668	40+5/440 Round
CPT01032	40+7.5/440 Round
CPT00656	45+5/440 Round
CPT00669	45+7.5/440 Round
CPT00660	50+5/440 Round
CPT01021	50+7.5/440 Round
CPT00670	55+5/440 Round
CPT00671	55+7.5/440 Round
CPT00691	60+5/440 Round
CPT01033	60+7.5/440 Round
CPT02163	70+7.5/440 Round
CPT02032	80+5/440 Round
CPT02031	80+7.5/440 Round
CPT02033	80+10/440 Round



# Honeywell Contactors

**Honeywell**



Item	Description
DP1030A5013	1-Pole 30a 24v Contactor
DP2030A1003	2-Pole 30a 24v Contactor
DP2040A1002	2-Pole 40a 24v Contactor
DP3040A5002	3-Pole 40a 24v Contactor
DP3040B5001	3-Pole 40a 120v Contactor
DP3040C5000	3-Pole 40a 240v Contactor

# Trane OEM Contactors

## Features

- 30 amp through 90 amp models
- Flexible design; 30 amp models cover 20 amp and 30 amp models
- 1, 2, 3 and 4-pole models
- Auxiliary switches in NO/NC and micro switch versions
- Interchangeable pull-in coils in 277 volt, 460 volt and 575 volt
- Silver cadmium oxide contact material
- Both 10-32 screw and box lug models available

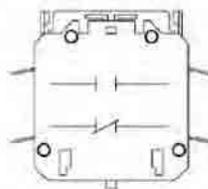
MOTORS / CONTROLS



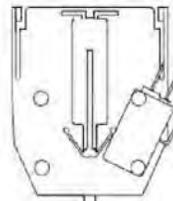
Item	Old Siemens Part #	FLA	# of Poles	Coil Voltage	Power Connection
CTR02579	CTR01134 / CTR01143	30/25/20	1 + Shunt	24 vac	Hex Head Screws
CTR02573	CTR01137 / CTR01146	30/25/20	2	24 vac	Hex Head Screws
CTR02589	CTR01138 / CTR01147	30/25/20	2	110-120 vac	Hex Head Screws
CTR02595	CTR01139 / CTR01148	30/25/20	2	208-240 vac	Hex Head Screws
CTR02594	CTR01359 / CTR01360	30/25/20	2	277 vac	Hex Head Screws
CTR02575	CTR01140 / CTR01149	30/25/20	3	24 vac	Hex Head Screws
CTR02601	CTR01362 / CTR01365	30/25/20	3	24 vac	Box Lugs
CTR02580	CTR01141 / CTR01150	30/25/20	3	110-120 vac	Hex Head Screws
CTR02607	CTR01363 / CTR01366	30/25/20	3	110-120 vac	Box Lugs
CTR02586	CTR01142 / CTR01151	30/25/20	3	208-240 vac	Hex Head Screws
CTR02574	CTR01152	40	1 + Shunt	24 vac	Hex Head Screws
CTR02598	CTR01153	40	1 + Shunt	110-120 vac	Hex Head Screws
CTR02599	CTR01145 / CTR00736	40	1 + Shunt	277 vac	Hex Head Screws
CTR02576	CTR01155	40	2	24 vac	Hex Head Screws
CTR02597	CTR01155	40	2	24 vac	Box Lugs
CTR02600	CTR01156 / CTR01159	40	2	110-120 vac	Hex Head Screws
CTR02611	CTR01361	40	2	277 vac	Hex Head Screws
CTR02613	CTR01158	40	2P/3P Base	24 vac	Box Lugs
CTR02605	CTR01160	40	2P/3P Base	208-240 vac	Box Lugs
CTR02593	CTR02613	40	3	24 vac	Hex Head Screws
CTR02577	CTR01161 / CTR01158	40	3	24 vac	Box Lugs
CTR02578	CTR01162 / CTR01159	40	3	110-120 vac	Box Lugs
CTR02585	CTR01163 / CTR01160	40	3	208-240 vac	Box Lugs
CTR02603	CTR01164	40	4	24 vac	Box Lugs
CTR02604	CTR01165	40	4	110-120 vac	Box Lugs
CTR02609	CTR01166	40	4	208-240 vac	Box Lugs
CTR02590	CTR01167	50	3	24 vac	Box Lugs
CTR02592	CTR01604	50	3	110-120 vac	Hex Head Screws
CTR02588	CTR01168	50	3	110-120 vac	Box Lugs
CTR02602	CTR01169	50	3	208-240 vac	Box Lugs
CTR02606	CTR02317	60	3	24 vac	Hex Head Screws
CTR02581	CTR01170	60	3	24 vac	Box Lugs
CTR02582	CTR01171	60	3	110-120 vac	Box Lugs
CTR02584	CTR01172	60	3	208-240 vac	Box Lugs
CTR02591	CTR00534 / CTR01471	75	3	24 vac	Box Lugs
CTR02583	CTR00535	75	3	110-120 vac	Box Lugs
CTR02596	CTR00536	75	3	208-240 vac	Box Lugs
CTR02612	CTR00537	90	3	24 vac	Box Lugs
CTR02587	CTR00538	90	3	110-120 vac	Box Lugs
CTR02614	CTR00539	90	3	208-240 vac	Box Lugs

### Auxiliary Switches For

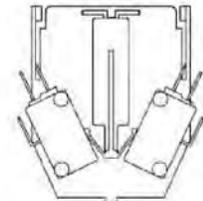
Item	Type	For Contactor
SWT03533	1-SPDT	25-60 amp
SWT03535	2-SPDT	25-60 amp
SWT03534	NO/NC	25-60 amp
SWT03536	NO/NC	75-90 amp



1 NO / 1 NC  
quick connects



One SPDT  
switch per side



Two SPDT  
switches per side

# Relays

## General Purpose Relays – 8400 Series

Used for Switching Single or Two Speed Fan Motors, Solenoids, Relays, Resistive Loads and General Purpose Switching

- Compact, totally enclosed design.
- For heating / cooling applications and general switching.
- Quiet, reliable and economical.

Item	Description	Coil Voltage
D90-290Q	Single Pole Normally Open (SPNO)	24
D90-291Q	Single Pole Normally Open (SPNO)	120
D90-292Q	Single Pole Normally Open (SPNO)	240
D90-293Q	Single Pole Double Throw (SPDT)	24
D90-294Q	Single Pole Double Throw (SPDT)	120
D90-295Q	Single Pole Double Throw (SPDT)	240



D90-290Q



D90-340



D90-380

## Heavy-Duty General Purpose Relays

Totally Enclosed Relay Operates in Any Position - Isolated Coil and Mounting Bracket

- Compact, totally enclosed design.
- For heating and cooling applications and general switching.
- Quiet, reliable and economical.

Item	Description	Coil Voltage
D90-380	Single Pole Double Throw Isolated Contacts (SPNO/SPNC)	24
D90-382	Single Pole Double Throw Isolated Contacts (SPNO/SPNC)	120
D90-384	Single Pole Double Throw Isolated Contacts (SPNO/SPNC)	240

## 2-Pole Switching Relays

A Two Pole Double Throw Semi-Enclosed Relay 90-340 Fits Fan Control Centers 90-112, 90-113, 90-118E and 90-119. Suited for use in vending machines, appliances, heating and air conditioning applications and general purpose switching.

Item	Coil Voltage	Terminals 1-2-3	Terminals 4-5-6
D90-340	24	Power	Power
D90-341	120	Power	Power
D90-342	240	Power	Power

# Miniature Pressure Switches

A complete line of pressure controls for fixed setpoint, low and high pressure, manual reset and fan cycling applications.

## Fan Cycling Switches

Item	Description
SWT03145	126/264 Fan Cycling Switch
SWT03146	210/275 Fan Cycling Switch



## Hi Pressure Switches

Item	Description
SWT03139	250/150 High Pressure Switch
SWT03140	300/200 High Pressure Switch
SWT03141	350/250 High Pressure Switch
SWT03143	400/300 High Pressure Switch
SWT03370	600/475 High Pressure R-410A Switch

## Low Pressure Switches

Item	Description
SWT03134	10/25 Low Pressure Switch
SWT03136	25/80 Low Pressure Switch
SWT03137	40/80 Low Pressure Switch
SWT03369	75/100 Low Pressure R-410A Switch

# Heating Products

## Sequencers

Used in electric heat systems to stage blower motors and heating elements. Direct Replacement for Most Fan/Heat Sequencing Functions. Terminal Markings are Equivalent to Competitive Types. 24V input control.



Item	# of Circuits	Klixon Part #	Switch Config.	Delay On Time (min-max seconds)	Delay Off Time (min-max seconds)
HDR-101	1 Main	60000A0211	SPST-NO	1-24	45-75
HDR-202	2 Main	60000E0109	DPST-NO	30-70	1-40
HDR-221	3 Main Staged	51172-131-6	DPST-NO SPST-NO	1-25	50-110
HDR-222	4 Main Staged	51172-131-7	2 DPST-NO	1-40	50-110

## Fusible Links

Fusible Links are temperature-sensitive, one time devices. Engineered as safety links, they open the circuit if the designed limit temperature is reached.

Item	Fusible Temp °F	Prong Type	Qty.
HFL-5257	257°	Straight	2-pack
HFL-5258	257°	Right Angle	2-pack
HFL-5300	300°	Straight	2-pack
HFL-5301	300°	Right Angle	2-pack
HFL-5333	333°	Straight	2-pack



## Heater Re-String Kits

Restriring kits are complete with terminal insulators, screws, washers and nuts.

Item	Wattage At		Length (In.)	
	240v	208v	Min.	Max.
HEK-200	2000	1500	26"	65"
HEK-400	4000	3000	45"	135"
HEK-500	5000	3750	54"	162"

## Large Diameter 5/8"

Item	Wattage At		Length (In.)	
	240v	208v	Min.	Max.
HERK-500	5000	3750	25"	70"



## Economy Liquid Line Driers

High moisture and acid capacity. Maximum filtration capacity. Exceptional compatibility with new polyester oils. Compatible with all existing and new refrigerants and blends including 134a, 401A/B, 402A/B, 404A, 407A/B/C, 410A, 502, 507A. Spring loaded, molecular sieve and activated alumina. Solid copper sweat fittings. Powder paint exterior coating surpasses 500 hour ASTM salt spray test and resists corrosion. Eliminates concern of additive stripping. 500 psig design pressure.



Item	Line Size	Application	Cubic Inches
DAD083S	3/8" Sweat	Straight Cool	8
DAD163S	3/8" Sweat	Straight Cool	8
DBF083S	3/8" Sweat	Heat Pump (Bi Flow)	6
DBF163S	3/8" Sweat	Heat Pump (Bi Flow)	6

## Liquid Line Drier Part Numbers

### NOMENCLATURE: example DCL165S

DCL	16	5	S
Manufacturer Drier Series	Cubic Inches	Connection Size (in 1/8")	S = Sweat In ODF Connections No S = SAE Threaded Fittings

## Inline Filter Drier Kit for Recovery Units



**Applion Item # KTF032**  
032 filter drier and a 6" megaflo hose

## Trane "Service First" Premium Heat Pump Liquid Line Driers

New Item #	Old Item #	Type	Cubic Inches	Line Size	Danfoss Item #	Emerson Equivalent
DHY01451	DHY00099	Heat Pump (Bi-Flow)	8	3/8" Sweat	DCB083S	BFK-083S
	DHY00101	Heat Pump (Bi-Flow)	8	1/2" Sweat	DCB084S	BFK-084S
DHY01452	DHY00105	Heat Pump (Bi-Flow)	16	3/8" Sweat	DCB163S	BFK-163S
	DHY00107	Heat Pump (Bi-Flow)	16	1/2" Sweat	DCB164S	BFK-164S
	DHY00109	Heat Pump (Bi-Flow)	16	5/8" Sweat	DCB165S	BFK-165S

Bi-flow filter driers have built-in check valves which ensure that refrigerant liquid always flows through the filter driers from the outer side of the filter core towards the center. Thus particles are retained irrespective of flow direction.

## "Service First" Premium Liquid Line Driers

New Item #	Old Item #	Type	Cubic In.	Line Size	Danfoss Item #	Emerson Equivalent
	DHY00131	Straight Cool	3	1/4" SAE	DCL032	EK-032
	DHY00132	Straight Cool	3	1/4" Sweat	DCL032S	EK-032S
	DHY00816	Straight Cool	3	1/4" SAE M/F		EK-032MF
	DHY00137	Straight Cool	5	1/4" SAE	DCL052	EK-052
	DHY00138	Straight Cool	5	1/4" Sweat	DCL052S	EK-052S
	DHY00817	Straight Cool	5	1/4" SAE M/F		EK-052MF
	DHY00139	Straight Cool	5	3/8" SAE	DCL053	EK-053
	DHY00140	Straight Cool	5	3/8" Sweat	DCL053S	EK-053S
	DHY00141	Straight Cool	8	1/4" SAE	DCL082	EK-082
	DHY00142	Straight Cool	8	1/4" Sweat	DCL082S	EK-082S
	DHY00143	Straight Cool	8	3/8" SAE	DCL083	EK-083
DHY01454	DHY00144	Straight Cool	8	3/8" Sweat	DCL083S	EK-083S
DHY01453	DHY01221	Straight Cool	8	1/2" In - 3/8" Out Sweat	DCL084/3S	EK-164/3S
	DHY00145	Straight Cool	8	1/2" SAE	DCL084	EK-084
	DHY00146	Straight Cool	8	1/2" Sweat	DCL084S	EK-084S
	DHY00149	Straight Cool	16	3/8" SAE	DCL163	EK-163
DHY01472	DHY00150	Straight Cool	16	3/8" Sweat	DCL163S	EK-163S
	DHY00151	Straight Cool	16	1/2" SAE	DCL164	EK-164
	DHY00152	Straight Cool	16	1/2" Sweat	DCL164S	EK-164S
DHY01470	DHY01307	Straight Cool	16	5/8" In - 1/2" Out Sweat	DCL165/4S	EK-165/4S
	DHY00153	Straight Cool	16	5/8" SAE	DCL165	EK-165
	DHY00154	Straight Cool	16	5/8" Sweat	DCL165S	EK-165S
	DHY00155	Straight Cool	16	7/8" Sweat	DCL167S	EK-167S

**Eliminator**® type DCL, with a solid core of 80% Molecular Sieve and 20% activated alumina, is the drier of choice for systems with HCFC and CFC refrigerants and mineral or alkyl benzene oils. Type DCL driers are particularly suited for systems that operate at high condensing temperatures and require high drying capacity.



New Item #	Old Item #	Type	Cubic In.	Line Size	Danfoss Item #	Emerson Equivalent
	DHY00156	Straight Cool	30	3/8" SAE	DCL303	EK-303
	DHY00157	Straight Cool	30	3/8" Sweat	DCL303S	EK-303S
	DHY00158	Straight Cool	30	1/2" SAE	DCL304	EK-304
	DHY00159	Straight Cool	30	1/2" Sweat	DCL304S	EK-304S
	DHY00160	Straight Cool	30	5/8" SAE	DCL305	EK-305
	DHY00161	Straight Cool	30	5/8" Sweat	DCL305S	EK-305S
	DHY00820	Straight Cool	30	7/8" Sweat	DCL307S	EK-307S
	DHY00821	Straight Cool	30	7/8" Sweat	DCL309S	EK-309S
	DHY00168	Straight Cool	41	5/8" SAE	DCL415	EK-415
	DHY00169	Straight Cool	41	5/8" Sweat	DCL415S	EK-415S
	DHY00170	Straight Cool	41	7/8" Sweat	DCL417S	EK-417S
	DHY00171	Straight Cool	41	1-1/8" Sweat	DCL419S	EK-419S
	DHY00172	Straight Cool	75	7/8" Sweat	DCL757S	EK-757S
	DHY00173	Straight Cool	75	1-1/8" Sweat	DCL759S	EK-759S

# "Service First" Suction Line Driers

**Eliminator**® burn-out filter driers type DAS are used in the suction line to clean up refrigeration and AC-systems with fluorinated refrigerants after a compressor motor burn-out.

The solid core, which is composed of 70% activated alumina and 30% Molecular Sieve, adsorbs harmful acids as well as moisture. By adsorbing these acids, the DAS burn-out filter drier protects the new compressor against premature failure.

New Item #	Old Item #	Type	Cubic Inches	Line Size	Danfoss Item #	Emerson Equivalent
DHY00237		Suction line w/ 2 Access Ports	16	5/8" Sweat	DAS165SVV	SFD13S5VV
DHY00238		Suction line w/ 2 Access Ports	16	3/4" Sweat	DAS166SVV	SFD13S6VV
DHY00239		Suction line w/ 2 Access Ports	16	7/8" Sweat	DAS167SVV	SFD13S7VV
DHY00177		Suction line w/ 2 Access Ports	30	5/8" Sweat	DAS305SVV	ASD35S5VV
		Suction line w/ 2 Access Ports	30	3/4" Sweat	DAS306SVV	
DHY00240		Suction line w/ 2 Access Ports	30	7/8" Sweat	DAS307SVV	SFD27S7VV
DHY00241		Suction line w/ 2 Access Ports	30	1-1/8" Sweat	DAS309SVV	SFD27S9VV
DHY00179		Suction line w/ 2 Access Ports	41	7/8" Sweat	DAS417SVV	ASD45S7VV
DHY00180		Suction line w/ 2 Access Ports	41	1-1/8" Sweat	DAS419SVV	ASD50S9VV
		Suction line w/ 2 Access Ports	60	7/8" Sweat	DAS607SVV	
		Suction line w/ 2 Access Ports	60	1-1/8" Sweat	DAS609SVV	
DHY00181		Suction line w/ 2 Access Ports	90	1-3/8" Sweat		ASD90S11VV



**Nomenclature Example:**  
**DAS165SVV**

DAS	16	5	S	VV
Mfg. Drier Series	Drier Cubic Inches	Connection Size (in 1/8")	S = Sweat In ODF Connections No S = SAE Threaded Fittings	VV = Access Ports on inlet and outlet V = Access Port on Inlet Blank = No Ports

**DRIERS / CORES**

## Danfoss & Emerson Filter Driers with Solid Cores

Danfoss Eliminator® filter driers with replaceable solid core, type DCR, are for use in liquid and/or suction lines in refrigeration, freezing and air conditioning systems. Besides being able to meet very demanding requirements, i.e. high working pressure levels when operating with R 410A and CO2, the new DCR program offers flexibility with respect to different combination possibilities.



Danfoss Item #	Emerson Liquid Line Equivalent	Emerson Suction Line Equivalent	# of Cores	Line Size	Danfoss Mfg. #	Emerson Liquid Line Equivalent Mfg.#	Emerson Suction Line Equivalent Mfg.#
	DHY00110		1	5/8"	DCR0485sS	STAS-485T	
	DHY00111		1	7/8"	DCR0487sS	STAS-487T	
	DHY00112		1	1-1/8"	DCR0489sS	STAS-489T	
	DHY00113		1	1-3/8"	DCR04811sS	STAS-4811T	
	DHY00114	DHY00345	1	1-5/8"	DCR04813sS	STAS-4813T	STAS-4813S-V
		DHY00339	1	2-1/8"	DCR04817sS		STAS-4817S-V
		DHY00340	1	2-5/8"	DCR04821sS		STAS-4821S-V
	DHY00115		2	7/8"	DCR0457sS	STAS-867T	
	DHY00116		2	1-1/8"	DCR0969sS	STAS-969T	
	DHY00117		2	1-3/8"	DCR09611sS	STAS-9611T	
	DHY00118		2	1-5/8"	DCR09613sS	STAS-9613T	
	DHY00119	DHY00346	2	2-1/8"	DCR09617sS	STAS-9617T	STAS-9617S-V
		DHY00341	2	2-5/8"	DCR09621sS		STAS-9621S-V
		DHY00342	2	3-1/8"			STAS-9625S-V
	DHY00120		3	1-1/8"	DCR1449sS	STAS-1449T	
	DHY00121		3	1-3/8"	DCR14411sS	STAS-14411T	
	DHY00122		3	1-5/8"	DCR14413sS	STAS-14413T	
	DHY00123		3	2-1/8"	DCR14417sS	STAS-14417T	
	DHY00124		4	1-3/8"	DCR19211sS	STAS-19211T	
	DHY00125		4	1-5/8"	DCR19213sS	STAS-19213T	
	DHY00126		4	2-1/8"	DCR19217sS	STAS-19217T	

## Replaceable Cores

Danfoss Item #	Emerson Item #	When to Use	CFC/HCFC (R-22)	HFC (R-134A)	Danfoss Mfg. #	Emerson Mfg. #
COR00018		Standard Capacity Core	✓			D-48
COR00019		High Acid and Water Removal	✓			H-48
COR00020		Burnout Cleanup	✓	✓	48-DA	W-48-HH
COR00057		Universal Replacement	✓	✓	48-DC	UK-48
COR00109		Highest Water Removal	✓	✓	48-DM	HX-48
COR00067		Filter (Suction Only)	✓	✓	48-F	F-48
COR00049		Removal	✓			RH-48
COR00086		Cleanup	✓			RW-48



NOTE: Filter Drier cores are suitable for use with R-11 AND R-123 but filters are **NOT**.

Item #	Superior	Fits	Type	Description	Image
FLR07340	F25A	2CFA Shells	F Series Replaceable Filter Cartridge	Super-pleated filter media provides up to twice the filter area of any other pleated or non-pleated filter cartridge today.	
FLR07341	F35A	3CFA Shells			
FLR07342	F45A	4CFA Shells			
FLR07343	F55A	5CFA Shells			
FLR07344	DF25A	2CFA Shells	DF Series Replaceable Dual Purpose Filter Drier Cartridge	Molded solid core of specially blended molecular sieve and activated alumina produces a dual-purpose suction line filter/drier of unusually high efficiency and capacity. Can be used for system clean-ups or on a permanent use basis.	
FLR07345	DF35A	3CFA Shells			
FLR07346	DF45A	4CFA Shells			
FLR07347	DF55A	5CFA Shells			
COR00116	A25	2CFA Shells	A Series Temporary Acid Removal Suction Line Cores	The Acid Fighter is a temporary suction line core specifically designed to give you maximum acid removal performance in situations where extremely high acid conditions exist.	
COR00117	A35	3CFA Shells			
COR00120	A45	4CFA Shells			
COR00121	A55	5CFA Shells			
	CD25	2CFA Shells	CD Series Char-Core® Liquid Line Cores	Wax build-up is prevented due to a high percentage of activated charcoal desiccant providing optimum wax adsorption. This special formulated blend gives Char-Core® liquid line cores the ability to remove not only wax, but virtually all other contaminants as well.	
COR00225	CD35	3CFA Shells			
COR00226	CD45	4CFA Shells			
	CD55	5CFA Shells			

DRIVERS / CORES

## Suction Line Accumulators

Compressors are extremely susceptible to damage from liquid refrigerant. Excessive liquid refrigerant return may cause not only oil dilution but complete loss of the compressor oil charge which results in equipment damage due to lack of proper lubrication. In addition, refrigerant flashing may occur causing the oil pump to lose pressure. The right selection and installation of a Suction Accumulator in the line, as close as possible to the compressor, is a life-saver for the equipment, assuring adequate oil return and that refrigerant return only, is returning to the compressor. Suction Accumulators can also function as suction traps that prevent liquid refrigerant floodback, one of the most common causes of compressor failure. In most cases liquid floodback can be controlled. However, an accumulator assures control and protection of the compressor.

Item #	Emerson Mfg. #	Fitting Size	Diameter (in.)	Length (in.)	Liquid Holding Capacity (lbs.)
ACC00120	A-AS-384	1/2"	3	8.27	2.0
ACC00121	A-AS-3105	5/8"	3	10.47	2.5
ACC00122	A-AS-3125	5/8"	3	12.60	3.0
ACC00124	A-AS-3145	5/8"	3	14.88	3.5
ACC00123	A-AS-3126	3/4"	3	12.80	3.0
ACC00125	A-AS-3146	3/4"	3	15.08	3.5
ACC00126	A-AS-464	1/2"	4	6.28	2.5
ACC00127	A-AS-465	5/8"	4	6.63	2.5
ACC00128	A-AS-4105	5/8"	4	11.00	5.0
ACC00129	A-AS-4106	3/4"	4	11.20	5.0
ACC00130	A-AS-596	3/4"	5	6.69	6.0
ACC00132	A-AS-5126	3/4"	5	12.87	9.0
ACC00131	A-AS-597	7/8"	5	9.87	6.0
ACC00133	A-AS-5127	7/8"	5	13.06	9.0
ACC00134	A-AS-5137	7/8"	5	14.76	10.0
ACC00135	A-AS-5139	1-1/8"	5	14.94	10.0
ACC00136	A-AS-5179	1-1/8"	5	18.48	12.0
ACC00137	A-AS-51711	1-3/8"	5	18.55	12.0
ACC00138	A-AS-6117	7/8"	6	12.48	12.0
ACC00139	A-AS-6137	7/8"	6	14.10	13.0
ACC00140	A-AS-6139	1-1/8"	6	12.28	13.0
ACC00141	A-AS-61411	1-3/8"	6	15.53	14.0
ACC00142	A-AS-61713	1-5/8"	6	18.88	17.0
ACC00143	A-AS-62013	1-5/8"	6	22.11	20.0
ACC00144	A-AS-62513	1-5/8"	6	26.87	25.0



### Nomenclature Example: A-AS-4105

A	AS	4	10	5
Series	Accumulator Suction	Diameter (inches)	Height (inches)	Fitting size in 1/8"

## Ball Valves

### GBC: excellent mounting and service

GBC ball valves are manually operated shut-off valves suitable for bi-directional flow. Ball valves are used in liquid, suction and hot gas lines in refrigeration, freezing and air conditioning systems. The GBC bi-directional ball valves can be delivered with or without external access port. The valves have one-piece wire seal cap to prevent unintentional cap removal or tampering between services.



Valve Only	w/ Access Port	Danfoss Mfg. #	Solder Connection
	VAL09550	GBC 6s	1/4"
VAL09747	VAL09551	GBC 10s	3/8"
VAL09748	VAL09552	GBC 12s	1/2"
VAL09749	VAL09553	GBC 16s	5/8"
	VAL09544	GBC 18s	3/4"
VAL09751	VAL09545	GBC 22s	7/8"
VAL09752	VAL09546	GBC 28s	1-1/8"
VAL09753	VAL09547	GBC 35s	1-3/8"
VAL09754	VAL09548	GBC 42s	1-5/8"
	VAL09549	GBC 54s	2-1/8"

## Service Access Valves



### Copper Tubing, Cap, and Core

Item #	Line Size	Package Qty.
CD8408	1/8"	6 Pack
CD8403	3/16"	6 Pack
CD8404	1/4"	6 Pack
CD8406	3/8"	6 Pack

### CD9510SVK - Access Fitting Service Kit

- (1) CD5050 Thumb-screw flow-control valve for 1/4" m. flare access fitting
- (1) CD2056 5/16" f. flare swivel x 1/4" m. flare access with 45° bend
- (6) CD2245 1/4 flare cap, round brass w/ neoprene o-ring seal
- (1) CD3805 Container with core wrench & six valve cores
- (1) CD3813 Compact knurled brass valve core tool and container
- (3) CD8403 1/4" m. flare access fitting w/ 3/16" copper tube
- (3) CD8404 1/4" m. flare access fitting w/ 1/4" copper tube
- (3) CD8405 1/4" m. flare access fitting w/ 5/16" copper tube
- (3) CD8408 1/4" m. flare access fitting w/ 1/8" copper tube
- (1) CD9603 1/4" m. flare access x 1/4" m. flare access x 1/4" f. flare
- (1) CD9611 1/4" f. flare x 1/4" m. flare access x 1/4" m. flare
- (1) 8.5" x 4.5" Carrying Case



### Replacement Cores and Caps

Item #	Description	Qty..
CD2245	1/4" Flare Brass Cap w/ O-ring	6 Pack
CD4460	Valve Cores w/ Teflon Seals	25 Pack



## Line Piercing Valves

MAC features uniport: 1 connection for piercing and servicing. Sealed with refrigerant resistant "O" rings. Needle automatically back seats after servicing, leaving line free of restriction. Connect to tubing with 2 socket-head screws. (Hex wrench is included with each valve.) Needle depressor is inserted into head of needle. Wing cap is turned down easily by hand until line is pierced. Wing cap is removed and system may be serviced with any charging hose with built-in depressor. When hose is removed, spring loaded needle back-seats forming a leak proof seal. Needle depressor is discarded and wing cap forms extra precautionary seal.



Item #	Line Size
QTM-1	1/4" • 5/16" • 3/8"
QTM-2	1/2" • 5/8"

## Sight Glasses

### HMI - Hermetic Moisture Indicators

The HMI is designed to provide an accurate method of determining the moisture content of a system's refrigerant. The HMI has a unique high accuracy moisture indicator for CFC, HCFC, and HFC refrigerants.

- Solid copper connections
- Hermetic, leak-free construction
- Single indicator for all common refrigerants
- Highest sensitivity moisture indicator available
- Accurate calibration at low ppm levels and higher temps
- Wide angle viewing/high visibility window for ease of monitoring
- All brass corrosion resistant body for fewer leaks



Item #	Emerson Mfg. #	Size	Style
GLS00889	HMI-1TT2	1/4"	Sweat x Sweat (ODF)
GLS00890	HMI-1TT3	3/8"	Sweat x Sweat (ODF)
GLS00891	HMI-1TT4	1/2"	Sweat x Sweat (ODF)
GLS00892	HMI-1TT5	5/8"	Sweat x Sweat (ODF)
GLS00893	HMI-1TT7	7/8"	Sweat x Sweat (ODF)
GLS00894	HMI-1TT9	1-1/8"	Sweat x Sweat (ODF)
GLS00878	HMI-1MM2	1/4"	Male Flare x Male Flare
GLS00879	HMI-1MM3	3/8"	Male Flare x Male Flare
GLS00880	HMI-1MM4	1/2"	Male Flare x Male Flare
GLS00881	HMI-1MM5	5/8"	Male Flare x Male Flare
GLS00934	HMI-1MM6	3/4"	Male Flare x Male Flare
GLS00882	HMI-1FM2	1/4"	Female Flare x Male Flare
GLS00883	HMI-1FM3	3/8"	Female Flare x Male Flare
GLS00884	HMI-1FM4	1/2"	Female Flare x Male Flare

DRIVERS / CORES

## Couplers

Item #	Description	QTY.
CD1414	1/4" Flare Access x 1/4" MPT	2 Pack
CD1818	1/4" Flare Access x 1/8" MPT	2 Pack



## Tee Connectors

Item #	Description	QTY.
CD9603	1/4" Swivel on Tee	2 Pack
CD9611	1/4" Swivel on Run	2 Pack



## Core Removal Tools

Item #	Description
CD3930	Core Removal Tool w/ Access Port
CD3805	Plastic Tube w/ Core Wrench & 6 Valve Cores



# Copeland® R-22 Scroll Compressors

brand products

## 208-230v Single Phase

Copeland Model	Item #	Tons	ARI		Run Cap	Liq. Line	Suct. Line	Connection
			BTU/hr	RLA				
ZR21K5-PFV-800	COM09933	1.8	21,000	12.0	35/440	1/2"	3/4"	Molded Plug
ZR25K5-PFV-800	COM09934	2.1	25,300	15.0	40/440	1/2"	3/4"	Molded Plug
ZR28K5-PFV-800	COM09936	2.4	28,400	15.7	45/440	1/2"	3/4"	Molded Plug
ZR32K5-PFV-800	COM09937	2.7	32,600	17.1	50/440	1/2"	3/4"	Molded Plug
ZR38K5-PFV-800		3.2	38,000	21.4	55/440	1/2"	7/8"	Molded Plug
ZR42K5-PFV-800	COM09941	3.5	42,200	22.1	55/440	1/2"	7/8"	Molded Plug
ZR48K5-PFV-800	COM09943	4.0	48,200	24.3	60/440	1/2"	7/8"	Molded Plug
ZR54K5-PFV-800	COM09947	4.5	53,500	28.2	80/440	1/2"	7/8"	Molded Plug
ZR61K3-PFV-930	COM04588	5.2	62,000	32.1	80/440	1/2"	7/8"	Terminal Block

Copeland Scroll ZRK5 compressors are offered in an 800 bill-of-material option, such as ZR25K5-PFV-800, that includes the compressor with a 42 inch molded plug wiring harness, mounting parts and installation instructions.



## 208-230v Three Phase

Copeland Model	Item #	Tons	ARI		Liq. Line	Suct. Line	Connection
			BTU/hr	RLA			
ZR25K5-TF5-800		2.1	25,300	8.9	1/2"	3/4"	Molded Plug
ZR28K5-TF5-800		2.4	28,400	11.1	1/2"	3/4"	Molded Plug
ZR32K5-TF5-800		2.7	32,600	12.0	1/2"	3/4"	Molded Plug
ZR38K5-TF5-800	COM09939	3.2	38,000	13.6	1/2"	7/8"	Molded Plug
ZR42K5-TF5-800		3.5	42,200	14.3	1/2"	7/8"	Molded Plug
ZR48K5-TF5-800	COM09944	4.0	48,200	17.1	1/2"	7/8"	Molded Plug
ZR54K5-TF5-800	COM09948	4.5	53,500	17.1	1/2"	7/8"	Molded Plug
ZR61K3-TF5-930	COM04585	5.1	61,000	19.3	1/2"	7/8"	Terminal Block
ZR68KC-TF5-930	COM04589	8.2	98,500	20.7	1/2"	7/8"	Terminal Block
ZR72KC-TF5-950	COM06254	6.1	73,500	20.7	1/2"	7/8"	Terminal Block
ZR81KC-TF5-950	COM08054	6.8	81,100	25.0	3/4"	7/8"	Terminal Block
ZR84KC-TF5-950	COM08712	7.0	84,000	28.6	7/8"	1-1/8"	Terminal Block
ZR94KC-TF5-950	COM08713	7.8	94,000	32.1	7/8"	1-1/8"	Terminal Block
ZR108KC-TF5-950	COM08016	9.1	108,900	33.6	7/8"	1-3/8"	Terminal Block
ZR125KC-TF5-950	COM08019	10.8	129,000	42.0	7/8"	1-3/8"	Terminal Block
ZR144KC-TF5-950	COM07085	11.9	142,800	47.1	7/8"	1-3/8"	Terminal Block
ZR190KCE-TW5-950	COM10094	15.8	190,000	58.6	7/8"	1-3/8"	Terminal Block
ZR250KC-TWC-951		20.8	250,000	81.4	1-1/8" R*	1-3/8" R*	Terminal Block
ZR300KCE-TWC-965	COM09953	24.7	296,000	87.9	1-1/8" R*	1-7/8" R*	Terminal Block

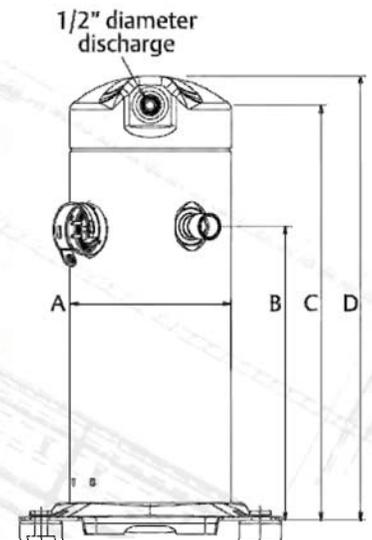
\*R Indicates RotoLock Connections

Model	Diameter Inches (A)	Suction Height Inches (B)	Discharge Height Inches (C)	Height Inches (D)
ZR16K5-PFV	5.5	10.1	14.2	15.3
ZR18K5-PFV	5.5	10.1	14.2	15.3
ZR21K5-PFV	5.5	10.1	14.2	15.3
ZR21K5-TF5/D	5.5	10.1	14.2	15.3
ZR25K5-PFV	5.5	10.1	14.2	15.3
ZR25K5-TF5/D	5.5	10.1	14.2	15.3
ZR28K5-PFV	5.5	10.1	14.2	15.3
ZR28K5-TF5/D	5.5	10.1	14.2	15.3
ZR32K5-PFV	5.5	10.1	14.2	15.3
ZR32K5-TF5/D	5.5	10.1	14.2	15.3
ZR38K5-PFV	6.5	11.1	15.4	16.4
ZR38K5-TF5/D	6.5	11.1	15.4	16.4
ZR42K5-PFV	6.5	11.1	15.4	16.4
ZR42K5-TF5/D	6.5	11.1	15.4	16.4
ZR48K5-PFV	6.5	11.1	15.4	16.4
ZR48K5-TF5/D	6.5	11.1	15.4	16.4
ZR54K5-PFV	6.5	11.1	15.4	16.4
ZR54K5-TF5/D	6.5	11.1	15.4	16.4
ZR57K3-PFV	7.3	11.68	16.13	18
ZR57K3-TF5/D	7.3	11.68	16.13	18
ZR61K3-PFV	7.3	11.68	16.13	18
ZR61K3-TF5/D	7.3	11.68	16.13	18

## 460v Three Phase

Copeland Model	Item #	Tons	ARI		Liq. Line	Suct. Line	Connection
			BTU/hr	RLA			
ZR25K5-TFD-800	COM09935	2.1	25,300	4.6	1/2"	3/4"	Molded Plug
ZR28K5-TFD-800		2.4	28,400	5.7	1/2"	3/4"	Molded Plug
ZR32K5-TFD-800	COM09938	2.7	32,600	6.4	1/2"	3/4"	Molded Plug
ZR38K5-TFD-800	COM09940	3.2	38,000	6.4	1/2"	7/8"	Molded Plug
ZR42K5-TFD-800	COM09942	3.5	42,200	6.4	1/2"	7/8"	Molded Plug
ZR48K5-TFD-800	COM09945	4.0	48,200	7.9	1/2"	7/8"	Molded Plug
ZR54K5-TFD-800	COM09949	4.5	53,500	7.9	1/2"	7/8"	Molded Plug
ZR61K3-TFD-930	COM04587	5.1	61,000	9.1	1/2"	7/8"	Terminal Block
ZR68KC-TFD-930	COM04591	8.2	98,500	10.0	1/2"	7/8"	Terminal Block
ZR72KC-TFD-950	COM06253	6.1	73,500	10.0	1/2"	7/8"	Terminal Block
ZR81KC-TFD-950	COM08057	6.8	81,500	12.0	3/4"	7/8"	Terminal Block
ZR84KC-TFD-950		7.0	84,000	14.2	7/8"	1-1/8"	Terminal Block
ZR94KC-TFD-950	COM08707	7.8	94,000	16.4	7/8"	1-1/8"	Terminal Block
ZR108KC-TFD-950	COM08017	9.1	108,700	17.3	7/8"	1-3/8"	Terminal Block
ZR125KC-TFD-950	COM08020	10.5	126,400	19.2	7/8"	1-3/8"	Terminal Block
ZR144KC-TFD-950	COM07086	11.9	142,800	20.7	7/8"	1-3/8"	Terminal Block
ZR190KC-TWD-950	COM09654	15.8	190,000	27.9	7/8"	1-3/8"	Terminal Block
ZR250KC-TWD-951	COM10360	20.8	250,000	33.6	1-1/8" R*	1-3/8" R*	Terminal Block
ZR300KCE-TWD-965	COM09954	24.7	296,000	42.9	1-1/8" R*	1-7/8" R*	Terminal Block

\*R Indicates RotoLock Connections



SCROLL COMPRESSORS



## 208-230v Single Phase

Copeland Model	Item #	Tons	ARI BTU	RLA	Start Kit	Run Cap	Suct. Line	Liq. Line	Connection	Crankcase Heater
CR16K6-PFV-875	COM10365	1.5	16,300	9.6	TO5	25/440	3/4"	1/2"	Molded Plug	Included
CR18K6-PFV-875	COM10366	1.5	18,000	10.4	TO5	25/440	3/4"	1/2"	Molded Plug	Included
CR22K6-PFV-875	COM10403	1.8	22,100	10.9	TO5	30/440	3/4"	1/2"	Molded Plug	Included
CR24K6-PFV-875	COM10371	2.0	24,500	12.4	TO5	35/440	3/4"	1/2"	Molded Plug	Included
CR28K6-PFV-875	COM10374	2.3	28,200	15.3	TO5	35/440	3/4"	1/2"	Molded Plug	Included
CR30K6-PFV-875	COM10377	2.5	30,000	16.0	TO5	35/440	3/4"	1/2"	Molded Plug	Included
CR32K6-PFV-875	COM10378	2.7	32,000	16.1	TO5	35/440	3/4"	1/2"	Molded Plug	Included
CR34K6-PFV-875	COM10381	2.8	34,500	16.6	TO5	50/440	3/4"	1/2"	Molded Plug	Included
CR35K6-PFV-875	COM10382	2.9	35,000	18.0	TO5	40/440	3/4"	1/2"	Molded Plug	Included
CR38K6-PFV-875	COM10384	3.2	38,200	19.0	KS1	40/440	3/4"	1/2"	Molded Plug	Included
CR42K6-PFV-875	COM10386	3.4	41,900	20.4	KS1	40/440	3/4"	1/2"	Molded Plug	Included
CR47KQ-PFV-970	COM10388	3.9	47,500	24.6	KS1	45/440	7/8"	1/2"	Terminal Block	HTR01266
CR53KQ-PFV-970	COM10391	4.4	53,300	29.0	KS1	60/440	7/8"	1/2"	Terminal Block	HTR01266
CRT5-0450-PFV-970	COM04529	4.5	54,100	30.7	KS1	45/440	7/8"	1/2"	Terminal Block	HTR01266
CRN5-0500-PFV-970	COM10433	5.0	60,600	34.3	KS1	55/440	7/8"	1/2"	Terminal Block	HTR01266

Copeland CRK6 service compressor are offered in an -875 Bill-of-Material option, such as CR32K6-PFV-875, that includes the compressor with a 42" molded plug wiring harness, mounting parts, fitting kit, crank case heater and installation instructions.

Model	Height Inches (A)	Suction Height Inches (B)
CR16K6-PFV	13.19	11.26
CR18K6-PFV	13.19	11.26
CR18K6-TFD	13.19	11.26
CR20K6-PFV	13.19	11.26
CR22K6-PFV	13.19	11.26
CR22K6-TF5/D	13.31	11.38
CR24K6-PFV	13.44	11.51
CR24K6-TF5/D	13.44	11.51
CR26K6-PFV	13.56	11.63
CR28K6-PFV	13.56	11.63
CR28K6-TF5/D	13.56	11.63
CR30K6-PFV	13.81	11.88
CR30K6-TF5/D	13.81	11.88
CR32K6-PFV	13.81	11.88
CR32K6-TF5/D	13.81	11.88
CR34K6-PFV	14.06	12.13
CR35K6-PFV	14.06	12.13
CR35K6-TF5/D	14.06	12.13
CR38K6-PFV	14.31	12.38
CR38K6-TF5/D	14.31	12.38
CR42K6-PFV	14.56	12.63
CR42K6-TF5/D	14.56	12.63
CR47KQ-PFV	14.81	14.68
CR47KQ-TF5/D	14.81	14.68
CR53KQ-PFV	14.81	14.68
CR53KQ-TF5/D	14.81	14.68
CRPQ-0450-PFV	15.88	15.5
CRT5-0450-PFV	15.88	15.5
CRTQ-0450-PFV	15.88	15.5
CRP5-0450-PFV	15.88	15.5
CRT5-0450-TF5/D	15.88	15.5
CRTQ-0450-TF5/D	15.88	15.5
CRP5-0450-TF5/D	15.88	15.5
CRPQ-0450-TF5/D	15.88	15.5
CRN5-0500-PFV	16.12	15.68
CRNQ-0500-PFV	16.12	15.68
CRN5-0500-TF5/D	16.12	15.68
CRNQ-0500-TF5/D	16.12	15.68

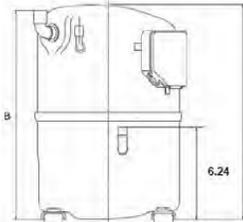
## 208-230v Three Phase

Copeland Model	Item #	Tons	ARI	RLA	Suct.	Liq.	Connection	Crankcase
CR35K6-TF5-875	COM10422	2.9	34,900	11.4	3/4"	1/2"	Molded Plug	Included
CR42K6-TF5-875	COM10387	3.5	41,700	14.0	3/4"	1/2"	Molded Plug	Included
CR47KQ-TF5-970	COM10389	3.9	47,200	16.0	7/8"	1/2"	Terminal Block	HTR01266
CRT5-0450-TF5-970	COM04530	4.5	54,500	19.6	7/8"	1/2"	Terminal Block	HTR01266
CRN5-0500-TF5-970	COM10434	5.0	63,300	21.4	7/8"	1/2"	Terminal Block	HTR01266

## 460v Three Phase

Copeland Model	Item #	Tons	ARI	RLA	Suct.	Liq.	Connection	Crankcase
CR35K6-TFD-875	COM10383	2.9	34,800	4.8	3/4"	1/2"	Molded Plug	Included
CR42K6-TFD-875	COM10431	3.4	41,500	6.4	3/4"	1/2"	Molded Plug	Included
CR47KQ-TFD-970	COM10390	3.9	47,200	8.2	7/8"	1/2"	Terminal Block	HTR01266
CRT5-0450-TFD-970	COM04531	4.6	54,500	10.4	7/8"	1/2"	Terminal Block	HTR01266
CRN5-0500-TFD-970	COM10436	5.1	60,600	9.6	7/8"	1/2"	Terminal Block	HTR01266

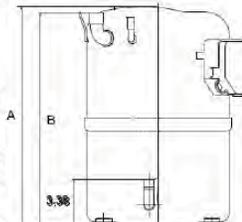
COMPRESSOR



Notes CRK6  
Mounting pattern 7.5" x 7.5"  
Length 10.22" by width 9.65"  
Suction diameter 3/4" straight  
Add 0.28" to height if grommets included  
Discharge height is 6.24"

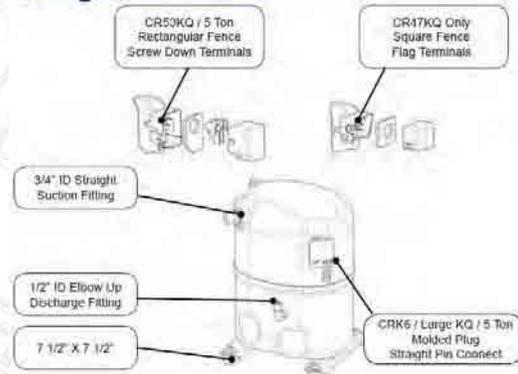


Notes Large CRKQ  
Mounting pattern 7.5" x 7.5"  
Length 10.62" by width 9.23"  
Suction diameter 7/8" elbow up  
Add 0.28" to height if grommets included  
Discharge height is 6.24"



Notes 5 Ton  
Mounting pattern 7.5" x 7.5"  
Length 11.38" by width 9.38"  
Suction diameter 7/8" elbow up  
Add 0.28" to height if grommets included  
Discharge height is 3.38"

### Configuration Details



## Replacement Molded Plug for ZR and CR Compressors

Copeland Model	Item #	Lead Length	Lead End	Wire Size
529-0060-04	PLU01185	42"	Stripped	10 gauge

# Locking Refrigerant Caps & Tamper-Evident Straps

**PLEASE NOTE:** The International Mechanical Code (1101.10—Locking access port caps) and International Residential Code (M1411.6—Tamper-resistant caps) require that "Refrigerant circuit access ports located outdoors shall be fitted with locking type tamper-resistant caps."

## NOVENT™ Locking Caps

Item #	Refrigerant / Color	Qty.
NP-R410 4PK	R-410A / Rose	4 Pack
NP-R410 50PK	R-410A / Rose	50 Pack
NS-UNI 4PK	Universal / Silver	4 Pack
NS-UNI 50PK	Universal / Silver	50 Pack
NV-MULTI KEY	Universal Key	1 Each



## C&D Valve Universal Caps

Item #	Cap Size	Qty.
CD2290/2	Standard - 1/4"	2 Pack
CD2290/50	Standard - 1/4"	50 Pack
CD2290/50	Mini-Split - 5/16"	2 Pack

**Keep Refrigerant Where It Belongs...**

Works with standard valve core key...



**TES-31**  
Tamper-Evident Strap  
10-Pack Bag  
No Special Tools Required!

## Kickstart® Hard Start Devices

The only two-wire, pre-assembled starting components Hard Start Device on the market that uses a high-quality Mechanical Potential Relay in a unique patented design! Absolutely no use of circuit boards, timers or PTCR devices!

The patented design sets Kickstart® apart from the competition! Ongoing research and development continues to earn product approval from leading compressor and equipment manufacturers...a first for any two-wire starting device in the HVACR industry. Hard start devices extend the life of compressors considerably by bringing them up to full speed more quickly and efficiently. They also assist compressors in starting under very adverse ambient conditions such as low voltage or high head pressures. Kickstart® aftermarket products come with a two-year warranty!

Models TO-5 (1-3 ton max. torque) and KS-1 (3.5-5 ton max. torque) both work with single-phase 208V, 230V and 265V A/C Refrigeration and Heat Pump Compressors.



Item #	Description
TO5	Kickstart - 1 TO 3 TON
KS1	Kickstart - 3.5 TO 5 TON

## 5-2-1® COMPRESSOR SAVER®

The 5-2-1® Compressor Saver® has been pre-wired for your convenience. There are only 3 color coded wires which need to be connected. The Black wire will be connected to the Common side of the compressor. The Striped wire will be connected to the Start winding of the compressor and the Red wire will be connected to the Run winding of the compressor. **Remember – 5, 2, 1 = Common, Start, Run.**

**Why use 3 wire hard starts?** They read the true back emf of the compressor allowing the hard start to drop out when the compressor is close to full speed.

The 5-2-1 Compressor Saver helps extend the life of a compressor, reduce damaging in-rush current by up to 50% and save homeowner money by using less energy.



Item #	Description
CSR U1	1 to 3 Ton Compressor Saver
CSR U2	3.5 to 5 Ton Compressor Saver

## Trane OEM Hard Start Kits

Item #	Used With	Trane OEM #
KIT07908	Late Model Scroll Compressors	BAYKSKT260
KIT06324	Early Model Scroll Compressors	BAYKSKT252
KIT07905	Reciprocating Compressors	BAYKSKT257
KIT01477	TTR-TWR/TTN-TWN/TTL-TWL/TTP-TWP	BAYKSKT250

## Diversitech Hard Start Kits

### Torque Plus – DST-5 300% / DST-6 500% Boost

Totally solid state, our DST-5 is just right for all permanent split capacitor (PSC) compressors from 1/2 to 10 H.P. It can be used on units that operate on 120 through 288 Volts. The DST-6 offers a larger capacitor for severely hard-to-start compressors. The DST-6 can be used on all PSC single phase compressors from 1-1/2 to 10 H.P. A unique combination of relay and safety timer – the capacitor is automatically disconnected in 0.5 seconds if the compressor fails to start.

Item #	Description
DST-5	300% Boost Hard Start Kit
DST-6	500% Boost Hard Start Kit



COMPRESSORS

# Trane Rotolock Replacement Compressor Stub Kits

## Standard Kits

Item #	Line Size	Fitting Size
KIT01158	3/8"	1.00-14
KIT01159	1/2"	1.00-14
KIT01161	5/8"	1.00-14
KIT01162	1/2"	1.25-12
KIT01163	5/8"	1.25-12
KIT01164	3/4"	1.25-12
KIT01165	7/8"	1.25-12
KIT01168	7/8"	1.75-12
KIT01170	1-1/8"	1.75-12
KIT01166	7/8" 90°	1.75-12
KIT01171	1-1/8" 90°	1.75-12

## Multi-Fit 90° Master Kits

Item #	Line Size	Fitting Size
KIT01160	3/8"-5/8"-3/4" 90°	1.00-14
KIT01167	3/8"-5/8"-3/4" 90°	1.25-12
KIT01169	3/4"-7/8" 90°	1.75-12

## Rotolock O-Ring Gaskets

Item #	Fitting Size
GKT01532	1.00-14
GKT01533	1.25-12
GKT01534	1.75-12



## Term-Lok™ Compressor Kits

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 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-arc spacer is included to prevent arcing between posts.



- Kits contain everything necessary for a fast and easy terminal repair
- Will never crack, break, or burn off.
- Provides 4 full points of contact on the new terminal

Item #	Wire Size	Compressor Size
TLC-3-12	12 Gauge	1.0 - 3.0 Tons
TLC-3-10	10 Gauge	3.0 - 5.0 Tons
TLC-3-8	8 Gauge	5.0+ Tons

## QwikLug™ Compressor Kits

Mainstream's patented product, QwikLug™, easily attaches to damaged or corroded spade connectors. QwikLug™ comes with color-coded leads to connect to existing wiring. The outer connector housing is a nylon insulator, eliminating the potential for shorting. It's that easy!

- Replaces damaged or corroded spade terminals
- Fits all standard compressor terminals
- **Tightens from the front with a screwdriver**
- Fully insulated brass connector
- A durable brass connection – more than 100,000 starts
- Available with 10 AWG or 12 AWG leads in 2' or 4' lengths
- 2' leads have been pre-stripped at the wire connection end
- 4' leads have fully insulated female connectors for connection directly to the contactor



Item #	Wire Size	Wire Length
QT2810	10 AWG	2 Feet
QT2812	12 AWG	2 Feet

## ICM Delay Timers

ICM's Delay on Break (DOB) Timers are low cost, direct OEM replacements that offer reliable, lasting protection for HVACR equipment. Provides anti-short cycle protection for air conditioning, refrigeration and heat pump equipment. Each unit features rugged, compact packaging and high power relays.

ICM's Delay on Make (DOM) Timers are ideal for compressor staging and stagger starting multiple motors and other equipment. They help to reduce power surges.

### Delay On Break Timers

Item #	ICM OE #	Input Voltage	Timer	Leads
TMR00161	ICM201FB	18-30vac	5-Minute Fixed	6" Wire Leads
TMR00168	ICM203FB	18-240vac	.03 - 10 Minute Adjustable	6" Wire Leads

### Delay on Make Timers

Item #	ICM OE #	Input Voltage	Timer	Leads
TMR00157	ICM102B	18-240vac	.03 - 10 Minute Adjustable	Male Tabs



TMR00161



TMR00168



TMR00157

## Supco Surge Arrestors

LIGHTNING is the most obvious source of a power surge, but not the only culprit. Cycling of Air Conditioners, Generators, Motors and Appliances can also produce damaging surges. Protect your equipment with SUPCO's Surge Arrestors. With multiple levels of protection, SUPCO can cover all your needs.

### SURGE PROTECTION FOR:

- Air Conditioning Compressors
- Heat Pump Compressors
- Refrigeration Compressors
- Pumps
- Motors
- Electro-Mechanical Devices



SCM60

### FEATURES/BENEFITS

- Easy Installation at Disconnect or Panel
- Weatherproof Housing
- Green LED to indicate Surge Protection is present

COMPRESSOR

# ICM 3-Phase Line Monitors

## MOD00757 — Stop Motor Burnouts!

Programmable 3-phase line voltage monitor with 25-fault memory, high temperature LCD display, easy setup & clear, diagnostic readout of system faults, 190 to 630 VAC operation...

The ICM450 was specifically designed to protect motors and other 3-phase loads from premature failure and damage due to common voltage faults such as voltage unbalance, over/under voltage, phase loss, reversal, incorrect sequencing and rapid short cycling.

- Reliable, high temperature LCD display
- Simplifies system setup and diagnostics. Indicates condition of incoming line voltage, fault conditions, system setpoints and other user adjustments.
- Simultaneous voltage display (an ICM exclusive) — View all 3 phases, no need to scroll through readouts.
- 25-fault memory and storage clearly displayed on LCD
- Temperature: -20°C to +75°C (-4°F to +167°F)
- Fully adjustable variables in SETUP mode:
- Line voltage: 190 to 600 VAC
- Voltage unbalance: 2 to 20%
- Delay on break period: 0 to 10 minutes
- Fault interrogation: 0 to 15 seconds
- Over/under voltage: 2 to 25%
- Reset modes: AUTO or 0 to 10 retries
- Control mode: ON or OFF



MOD00757

## MON00004 - Low Cost 3-Phase Monitor

Works great with the ICM450 for load side monitoring of part winding start motors and multiple compressor systems

The ICM401 is a 3-phase line monitor that protects against phase loss, phase reversal and phase unbalance. Ideally suited to protect scroll & screw compressors from reverse rotation.

- Low cost, single side 3-phase protection
- Bright LED indicators for fault and load energized
- Easy to install, no adjustments
- Wide operating range: 190-600 VAC
- Less than 1-second phase loss response
- Automatic reset from a fault condition
- Compact packaging: fits almost anywhere
- Rugged, epoxy-encapsulation for extreme conditions



MON00004

## Zebra ECM Motor Protectors

### Protect your investment

“The most common cause of Variable Speed (ECM) Motor failure is damage to the electronics module as a result of poorly conditioned incoming power.”

### Saves Equipment

ECM Protectors plug into existing motor connectors or plugs. They help to protect these valuable motors from voltage spikes, surges, and transients that often damage them.



### F-A-S-T Installation

The VZPRO and the X13PR simply plug in between the motor connector and the existing wiring harness. A ground strap with a ring terminal is provided for additional protection.

Item #	Description
VZPRO	ECM Motor Protector (120-240V)
X13PR	X-13 & Evergreen ECM Motor Protector

## ECM Repair Kit — Item # VZREP

ECM's (Variable Speed Motors) have “Over Current Protection Devices” designed to keep excessive power from damaging other system components. Frequently, only this part needs replacement to restore an expensive ECM (Variable Speed) Motor to an operating condition.

Kit includes O.C.P.D. device and circuit board releaser tool. Requires a soldering gun and rosin core (for electronic use) solder. The Repair Kit is not guaranteed to fix every motor - but because of motor cost, vs. kit cost - it's worth the effort.



## “Tattle Tale” Control Monitor

Identifies open controls in seconds. A single use monitoring device for determining which safety control has opened in response to a malfunction. Saves wasted hours tracing a safety control shutdown, even if intermittent. A quick, inexpensive way to visually spot where the problem is. Simply install in parallel with each safety control. When a control opens, the red indicator flag pops up. You will know immediately which area of the system is experiencing problems. Disposable, safe, simple to use, and pocket sized. Monitors safety controls, fuses, overload relays, motor protectors, freeze controls, limit controls, safety switches, fusible links, or steam control.

Item #	Description
TT-24	24v TATTLE-TALE - 3pk
TT-120	120v TATTLE-TALE - 3pk
TT-240	240v TATTLE-TALE - 3pk



## Replacement Fuses

Item #	Description	Package Qty.
ZFP03	ATC3 3amp Fuse	25 Pack
ZFP05	ATC5 5amp Fuse	25 Pack
ZFG05	AGC5 5amp Fuse	25 Pack
ZFGMQ	GMQ 3.2amp Fuse	2 Pack
ZFMD3	MDL3 3amp Fuse	5 Pack
ZFMD5	MDL5 5amp Fuse	5 Pack



## Circuit Breakers & Fuse Holders

Circuit Breaker kit includes wires and pre-installed terminals that allow you to plug it in to the connectors where a plastic-type fuse existed.

Item #	Description
ZK003	3 Amp Circuit Breaker with Reset
ZK005	5 Amp Circuit Breaker with Reset
ZFH01	Medium-Duty (15A) Standard Size Plastic Fuse Holder Kit - 4 Pack



# Disconnects

## DiversiTech Pull-out Disconnect Switch with Side Opening Door

- Line, load, and ground terminals aligned for ease of wiring
- Reversible door – opens to the left or to the right
- Side opening door opens more than 180 degrees for maximum access
- Full dead front
- UL Listed IRF9, NEMA TYPE 3R: Raintight, Sleet Resistant – Outdoor



Item #	Description
DDS-60U	60A Non-Fusible Disconnect Switch

## Square-D Disconnect

- 60 amp switch rated for 10 HP motors at 240 VAC.
- On-Off circuit breaker type switch. No pull-out head that can be lost or stolen.
- Four, one-inch combination knockouts – two in back and two in bottom end wall.
- Removing the cover housing provides open access to lugs for easy wiring.



Item #	Description
QO200TR	60A Disconnect Switch

## Liquid Tite Flexible Conduit

For electrical applications: outside, inside and industrial uses including transformer connections, air conditioning and heating. Joins with metallic or non-metallic connectors, easy to cut. Impact resistant, chemical resistant, and will not kink. U.L. and C.U.L. Listed. For use as indicated in Article 351 of the 1987 NEC.



Item #	Description
750-12100	1/2" x 100' Liquid Tite Conduit – Non-Metallic, 100' roll
750-34100	3/4" x 100' Liquid Tite Conduit – Non-Metallic, 100' roll

## Liquid Tite Pre-Made Whips

Liquid-tight flexible conduit system. A labor saving convenience kit for A/C unit hookup. Also use for heat pumps, refrigeration, hot tubs, swimming pools and outdoor lighting. Three distinct wire colors for ease of hook-up. 1 straight and 1 90° metallic or non-metallic connector. 90° connector\* is removable for straight connections (Second straight connector not included). U.L. & C.U.L. Listed.



Item #	Description
WHIP-1/2	1/2" x 6' #10 THHN Wire – Non-Metallic Connectors
WHIP-3/4	3/4" x 6' #8 THHN Wire – Non-Metallic Connectors
WHIP-3/4HD	3/4" x 6' #6 THHN Wire – Non-Metallic Connectors

## Romex Connectors

Item #	Description	Box Qty.
750-RC841	3/8" Connector for 1/2" Knockouts	100
750-RC842	3/4" Connector for 3/4" Knockouts	50



## Liquid Tite Connectors

For use with metallic and non-metallic liquid tite conduit, Type B. Provides smooth connection, no sharp edges to strip wire. Wiring easily pulled through. U. L. Listed. C.U.L. Listed.



Item #	Description	Box Qty.
750-NMLT50	1/2" Non-Metallic Straight Connector	25
750-NMLT9050	1/2" Non-Metallic 90 Degree Elbow	10
750-NMLT75	3/4" Non-Metallic Straight Connector	10
750-NMLT9075	3/4" Non-Metallic 90 Degree Elbow	10

## Fender Washers

Item #	Screw Size	Outer Diameter	Pack Qty.
6722-2X	1/4"	1-1/4"	92
6724-2X	3/8"	1-1/2"	66



## Self-Tapping Screws

Devco Item	Malco Item	Screw Size	Head Size	Devco Pack Qty.
6943CX	BT131X	#8 x 1/2"	1/4"	100
6945CX	BT133X	#8 x 3/4"	1/4"	100
6946CX	BT134X	#8 x 1"	1/4"	100
6953CX	BT141X	#10 x 1/2"	5/16"	100
6955CX	BT143X	#10 x 3/4"	5/16"	100
6956CX	BT144X	#10 x 1"	5/16"	100
6965CX	BT163X	#12 x 3/4"	5/16"	100
6966CX	BT164X	#12 x 1"	5/16"	100
6975CX	BT174X	#14 x 3/4"	3/8"	100



## Anchor Kits with Drill Bits

Devco Item	Malco Item	Description	Pack Qty.
7101CX	PA810KW	#8 x 1" Screws w/ Yellow Anchors & 3/16" Bit	100
7102CX	PA1012KW	#10 x 1.25" Screws w/ Red Anchors & 1/4" Bit	100

# Terminals and Connectors

Devco #	NSi #	Description
6200MSX	MTK-2	Terminal Assortment with Crimper



## Female Slip-On Disconnects

Devco #	NSi #	Wire Size	Insulation	Devco Qty.	NSi Qty.
6251LX	F12-250-3V-D	12-10	Vinyl Base	50	70
6218LX	F16-250-3V-D	16-14	Vinyl Base	50	100
6235LX	F22-250-3V-S	22-18	Vinyl Base	50	30
61234LX	IF12-250-3N-S	12-10	Fully Insulated	50	12
6233LX	IF16-250-3N-S	16-14	Fully Insulated	50	20
6229LX	IF22-250-3N-S	22-18	Fully Insulated	50	20



## Male Slip-On Disconnects

Devco #	NSi #	Wire Size	Insulation	Devco Qty.	NSi Qty.
61221LX	M12-250-3V-D	12-10	Vinyl Base	50	70
6219LX	M16-250-3V-D	16-14	Vinyl Base	50	100
60219	M22-250-3V-S	22-18	Vinyl Base	23	30
61235LX	IM12-250-3N-S	12-10	Fully Insulated	50	100
6234LX	IM16-250-3N-S	16-14	Fully Insulated	50	30



## Vinyl Ring Terminals

Devco #	NSi #	Wire Size	Stud Size	Devco Qty.	NSi Qty.
6253LX	R12-14V-D	12-10	1/4"	50	50
6252LX	R12-10V-D	12-10	#10	50	60
60252CX	R12-8V-D	12-10	#8	100	60
6216LX	R16-10V-D	16-14	#10	50	90



## Vinyl Spade Terminals

Devco #	NSi #	Wire Size	Stud Size	Devco Qty.	NSi Qty.
6255LX	S12-10V-D	12-10	#10	50	60
60254LX	S12-8V-D	12-10	#8	50	60
6228LX	S16-10V-D	16-14	#10	50	85
6227LX	S16-8V-D	16-14	#8	50	85



## Closed End Connectors

Devco #	NSi #	Wire Size	Devco Qty.	NSi Qty.
6223LX	C16-N-S	18-10	50	25
6222LX	C22-N-S	22-14	50	25



## Butt Connectors

Devco #	NSi #	Wire Size	Devco Qty.	NSi Qty.
6231LX	B12-V-S	12-10	50	15
6217LX	B16-V-S	16-14	50	20
6232LX	B22-V-S	22-18	50	25



## Tap Connectors

Devco #	Description	Qty.
6241	16-14 Blue Tap Splice Connector	15



## Plug / Receptacle Connectors

Devco #	Description	Qty.
6288LX	22-18 Plug / Receptacle Combo Pack	25 Pair
6289LX	16-14 Plug / Receptacle Combo Pack	25 Pair



## Tab Adapters

Devco #	NSi #	Description	Devco Qty.	NSi Qty.
60210LX	P16-250-3V-S	16-14 Insulated Piggy Back Slip-On Adapter	50	15
6211LX	DMT250-3-S	2 Male/1 Female Tab Adapter	50	27
6212	250-3MFM-D	2 Male/1 Female Stacked Tab Adapter	16	60
6208LX	250-3-Z-D	2 Male/1 Female 90° "Chair" Adapter	50	50



## Compressor Terminals

Devco #	NSi #	Description	Devco Qty.	NSi Qty.
6259CX	HTSF12-250-3-S	12-10 Female Flag Compressor Terminals	100	12
6258CX	HTSF16-250-3-S	16-14 Female Flag Compressor Terminals	100	15
6270LX	FCT12-250-3-S	12-8 Female Hermetic Compressor Terminals	50	10
CC33	NSI 33-14	Compressor Leads – 12" with Butt, pack of 3		
6200HX		Compressor Terminal Kit		



# Wire Products

## Thermostat Wire

Item #	Description	Feet per Spool
THM-18/2-S	18/2 SPOOL WIRE	500 ft.
THM-18/3-S	18/3 SPOOL WIRE	500 ft.
THM-18/4-S	18/4 SPOOL WIRE	250 ft.
THM-18/5-S	18/5 SPOOL WIRE	250 ft.
THM-18/6-S	18/6 SPOOL WIRE	250 ft.
THM-18/7-S	18/7 SPOOL WIRE	250 ft.
THM-18/8-S	18/8 SPOOL WIRE	250 ft.
THM-18/9-S	18/9 SPOOL WIRE	250 ft.
THM-18/10-S	18/10 SPOOL WIRE	250 ft.
THM-18/12-S	18/12 SPOOL WIRE	250 ft.



## Control Wire

Item #	Gauge	Shielded	Jacket Color	Application
W181P-2028X	18/2	Yes	Purple	Trane COM 3/4 Plenum
W183C-2058	18/3	Yes	White	3 Conductor Sensor Plenum
W186C-2055	18/6	Yes	Grey	Multi-Conductor Shielded Plenum
W221P-2002	22/2	Yes	Blue	Lonworks 1-Pair Shielded Plenum
W223C-2060	22/3	Yes	Blue	Shielded Plenum Sensor Wire



## Hook-Up Wire

### TFFN 16-Stranded Hook-Up Wire

Item #	Color	Gauge	Feet Per Bag
6332B	Black	16	48'
6332R	Red	16	48'
6332W	White	16	48'
6332G	Green	16	48'

### THHN 19-Stranded Hook-Up Wire

Item #	Color	Gauge	Feet Per Bag
6335B	Black	14	48'
6335R	Red	14	48'
6335W	White	14	48'
6335G	Green	14	48'
6334B	Black	12	48'
6334R	Red	12	48'
6334W	White	12	48'
6334G	Green	12	48'
6335B	Black	10	48'
6335R	Red	10	48'
6335W	White	10	48'
6335G	Green	1	48'



## Wire Nuts

### Screw-On Wire Nuts

Item #	Color	Wire Size	Qty.
623-002	Blue	22-16 AWG	100 Pack
623-003	Orange	22-14 AWG	100 Pack
623-004	Yellow	18-10 AWG	100 Pack



### Screw-On Winged Wire Nuts

Item #	Color	Wire Size	Qty.
623-000	Gray	14-8 AWG	50 Pack
623-008	Blue	10-6 AWG	50 Pack

## Wire Ties

Item #	Description	Pack Qty.
WTB07C	7" Black Wire Ties	100
WTB11C	11" Black Wire Ties	100
WTMB11C	11" Black Wire Ties w/ Mounting Hole	100



## Electric Tapes

Item #	Description
ELECTRIC TAPE-3M	06132 3M 33+ Premium Electric Tape
ELECTRIC TAPE-ECON	Economy Electric Tape



## Heat Shrink Tubing Assortments

Item #	Color	Sizes	Qty.
HSA1	Black	1/8" • 1/4" • 3/8"	Pack of 7
HSA2	Black	1/2" • 3/4" • 1"	Pack of 4



Heat Shrink Tubing

## Wire Tie Mounting Accessories

Item #	Description	Pack Qty.
WTM1	White Wire Tie Mounts - Adhesive Back	4
WTM2	White Wire Tie Mounts - #8 Screw	7
WCA1	Wire & Cable Clamp Assortment - 1/8" to 1"	26



WTM1



WTM2



WCA1

# Duct Smoke Detection

COMMERCIAL

Item #	Mfg. #	Description
SEN01657	D4120	4-wire Photoelectric Duct Smoke Detector
TUB12396	DST3	Metal Sampling Tube for Duct Widths 2 - 4 ft.
TUB12397	DST5	Metal Sampling Tube for Duct Widths 4 - 8 ft.
SEN00917	APA151	Remote Annunciator with Piezo Alarm
SEN00919	RTS151	Remote Test Station
SEN00920	RTS151KEY	Remote Test Station with Key Lock
CNT06053	RTS2-AOS	Multi-Signaling Accessory w/ Add-On Strobe
TRM00052	MHR	Mini Horn (Red)
TRM00053	MHW	Mini Horn (White)

The InnovairFlex™ Series are the only duct smoke detectors flexible enough to fit configurations from square to rectangular and everything in between.

The InnovairFlex D4120 4-wire photoelectric duct smoke detector features a pivoting housing that fits both square and rectangular footprints and mounts to round or rectangular ductwork. This unit senses smoke in the most challenging conditions, operating in airflow speeds of 100 to 4,000 feet per minute, temperatures of -4°F to 158°F, and a humidity range of 0 to 95 percent (non-condensing). A plug-in sensor head offers improved false alarm immunity and simple installation, testing, and maintenance. An improved cover design isolates the sensor head from the low-flow feature for simple maintenance.

The InnovairFlex housing provides ample wiring space, a 3/4-inch conduit knockout, and built-in short circuit protection to prevent damage to sensitive components during installation. High contrast terminal designations make wiring easy. With its 2:1 sensor-to-power capability, the power board of the D4120 may be used to monitor a second sensor, D4S, simultaneously (i.e., supply and return side). As many as 50 InnovairFlex detectors can be interconnected. When one unit senses smoke, all interconnected detectors will switch their relays; only the detector sensing smoke will go into alarm, thus pinpointing the fire source.



# Flow & Differential Pressure Controls

## United Electric DP Switches

The J21K differential pressure switch monitors the difference between two system pressures or vacuums, senses excessive flow deviation, or verifies that a filter is clogged. It is designed with two separate, opposing sensors which are connected by a rod to actuate the snap switch.

The J21K's rugged design - with epoxy coated enclosure and sealed metal bellows - lends itself to exacting applications. Widely used in refrigeration (chiller) and compressor applications, the J21K can be used for filter status monitoring and proof of flow.

Item #	PSI Range	Description
J21K-16020	0 to 15	Brass bellows with nickel-plated 1/4" NPT (female) pressure connections
J21K-232	0 to 25	Phosphor bronze bellows with brass 1/4" NPT (female) pressure connections
J21K-150	0 to 40	Brass bellows with nickel-plated 1/4" NPT



## McDonnell & Miller Flow Switches

Four stainless steel paddles included - 1", 2", 3" and 6" Sensitivity screw makes flow adjustment easy • 1" NPT

### FS4-3 General Purpose Liquid Flow Switches

Universal design serves the widest variety of applications. For starting or stopping electrically operated equipment such as signal lights, alarms, motors, automatic burners, metering devices and others. Replacement for common flow switches from Johnson/Penn, Potter/Taco, Watts, Hydrolevel and other manufacturers. Maximum temperature 300°F (149°C). Maximum operating pressure 160 psi.

### FS8-W General Purpose Liquid Flow Switches

For applications with environmental exposure, or those requiring a water-tight, dust tight, or a NEMA 4X rated switch. Replacement for NEMA 4X-style flow switches from Potter/Taco, Watts, Penn and other manufacturers. Maximum temperature 225°F (107°C). Maximum operating pressure 160 psi.

Item #	Mfg. #	Description
SWT00135	FS4-3	General Purpose Liquid Flow Switch
SWT00285	FS8-W	NEMA 4X General Purpose Liquid Flow Switch





# ifm Efector Flow Sensors

**Reliable ifm flow switches can replace differential pressure and paddle switches**  
Eliminate moving parts and associated breakage and clogging problems; provide more accurate and more reliable flow sensing for better chiller control.

Troubleshoot by using the LED bar graph for an immediate indication of how much flow is running through the system. The flow probe can be mounted virtually anywhere without concerns about length, diameter of pipe, orientation, turbulence or low pressure drops associated with mechanical switches.

	<p><b>Remote mount flow kit with extended probe</b> <i>Kit No.: U40100</i></p> <ul style="list-style-type: none"> <li>• 1/2" NPT</li> <li>• For large pipes</li> <li>• Electronics in cabinet</li> <li>• Low voltage to probe</li> </ul>		<p><b>Direct mount flow kit with extended probe</b> <i>Kit No.: US0022</i></p> <ul style="list-style-type: none"> <li>• 1/2" NPT</li> <li>• For large pipes</li> <li>• Electronics on unit</li> <li>• Crush-proof cable eliminates conduit</li> </ul>
	<p><b>Remote mount flow kit with standard probe</b> <i>Kit No.: US0018</i></p> <ul style="list-style-type: none"> <li>• 1/4" NPT</li> <li>• For standard size pipes</li> <li>• Electronics in cabinet</li> <li>• Low voltage to probe</li> </ul>		<p><b>Direct mount flow kit</b> <i>Kit No.: US0013</i></p> <ul style="list-style-type: none"> <li>• 1/4" or 1/2" NPT</li> <li>• For standard size pipes</li> <li>• Electronics on unit</li> <li>• Crush-proof cable eliminates conduit</li> </ul>

COMMERCIAL

# What's New at Belimo

*New products designed to help save you energy and reduce costs.*



**Energy Valve**

- Improve coil DT by parameterize Delta T Manager mode to match the installed characteristic of the coil.
- Save pump distribution energy by eliminating coil overflow.
- Improve plant performance by improving chiller or boiler efficiency.
- Achieve coil performance that follows the calculated design flow rates exactly.



**New Generation Characterized Control Valves**

- Increased differential pressure 30 psi to 50 psi.
- Improved media temperature range of 212°F to 250°F [100°C to 120°C].
- Standardized assembly screw: M4 screw for 1/2" to 2" valve bodies.
- Backward compatible with current actuator subassemblies.



**6-Way Characterized Control Valve**

- Ideal for chilled beams and radiant ceilings offering reduced wiring by using a single actuator instead of two.
- Eliminates the need for a change over valve and enables the use of a single coil for heating and cooling.
- True close-off to isolate both heating and cooling loops.
- Two sequences with different Cv capabilities (eg. heating and cooling)
- Linear flow characteristic



**Electronic Fail-Safe Actuators**

- Unique selectable fail-safe positions providing system optimization and energy savings.
- High Torque: GK – 360 in-lbs [40 Nm] for more torque tandem mount two GK actuators for up to 720 in-lbs [80 Nm].
- Quick running: NKQ – 54 in-lbs [6 Nm] driving 95 degrees in 4 seconds!
- Linear: AHK – 101 lbf [450 N] pushing or pulling over the 4 inches [100 mm] stroke.



**UGSL1200 Retrofit Linkage**

- Returns the Powermite MZ/MT short stroke valve back into service when the original actuator has failed.
- Easily attaches to existing valve bonnet and accommodates non-spring return or spring return actuator.
- Converts rotary actuator movement to a linear stroke of 5.5 mm with just 95° rotation.



**EF Spring Return Actuators**

- Reduce wiring and installation time while offering manual override on large dampers with Belimo's newest high torque spring return solution – the EF.
- Rugged outdoor models are available with NEMA 4 (UL Type 4, IP 66) rating.
- Delivers 270 in-lbs [30 Nm] of min torque, driving dampers up to 66 square feet.

# Panasonic

## WhisperCeiling™

VENTILATION FAN

- Super quiet operation
- ENERGY STAR® qualified
- Contemporary grille design
- Thermal fuse protection
- 3 Year Warranty
- Totally enclosed condenser motor for long life rated for continuous run
- Easy installation (double hanger bar system)
- Rustproof paint treatment on galvanized housing
- Built-in damper to prevent backdraft
- UL listed for tub/shower enclosure when used with a GFCI branch circuit wire
- Optional Designer Grille and Radiation Damper available for some models



# Panasonic

## WhisperLite™

VENTILATION FAN

- Convenient Night-Light feature
- Super quiet operation
- ENERGY STAR® qualified
- Enhanced grille design
- Thermal fuse protection
- 3 Year Warranty
- Totally enclosed condenser motor for long life - rated for continuous run
- Easy installation (double hanger bar system)
- Rustproof paint treatment on galvanized housing
- Built-in damper to prevent backdraft
- UL listed for tub/shower enclosure when used with a GFCI branch circuit wire



Item #	Description
FV-05VQ5	50 CFM Whisper Ceiling Fan - 4" Duct
FV-08VQ5	80 CFM Whisper Ceiling Fan - 4" Duct
FV-11VQ5	110 CFM Whisper Ceiling Fan - 4" Duct
FV-15VQ5	150 CFM Whisper Ceiling Fan - 6" Duct

Item #	Description
FV-08VQL5	80 CFM Whisper Lite Fan / Light Combo - 4" Duct
FV-11VQL5	110 CFM Whisper Lite Fan / Light Combo - 4" Duct
FV-15VQL5	150 CFM Whisper Lite Fan / Light Combo - 6" Duct

### WhisperCeiling Competitive Cross Reference

Brand	Model Number	Description	Duct	CFM @ .1" w.g.	Noise (Sones)	Watt	Warranty (Years)	ENERGY STAR
Panasonic	FV-05VQ3	Fan	4"	50	< 0.3	12.9	3	Y
Broan	QTXE050	Fan	6"	50	< 0.3	27.8	3	Y
NuTone	QTXEN050	Fan	6"	50	< 0.3	27.8	3	Y
Panasonic	FV-08VQ3	Fan	4"	80	0.3	22.8	3	Y
Broan	QTXE080	Fan	6"	80	0.3	40.0	3	Y
NuTone	QTXEN080	Fan	6"	80	0.3	40.0	3	Y
Panasonic	FV-11VQ3	Fan	4"	110	0.8	30.7	3	Y
Broan	QTXE110	Fan	6"	110	0.7	36.7	3	Y
NuTone	QTXEN110	Fan	6"	110	0.7	36.7	3	Y
Panasonic	FV-15VQ4	Fan	6"	150	0.6	31.4	3	Y
Broan	QTXE150	Fan	6"	150	1.4	53.6	3	Y
NuTone	QTXEN150	Fan	6"	150	1.4	53.6	3	Y
Panasonic	FV-20VQ3	Fan	6"	190	1.3	42.0	3	Y
Broan	L200	Fan	8"	210	2.0	127.0	1	N
Panasonic	FV-30VQ3	Fan	6"	290	2.0	64.0	3	Y
Broan	L300	Fan	8"	308	2.9	212.0	1	N
Panasonic	FV-40VQ3	Fan	6"	380	3.0	112.0	3	Y
Broan	L400	Fan	4-1/2" X 18-1/2"	434	2.4	146.0	1	N

### WhisperLite Competitive Cross Reference

Brand	Model Number	Description	Duct	CFM @ .1" w.g.	Noise (Sones)	Watt	Warranty (Years)	ENERGY STAR
Panasonic	FV-08VQL4	Fan-Fluorescent Light	4"	80	0.3	25.2	3	Y
Broan	QTXE080FLT	Fan-Fluorescent Light	6"	80	0.3	40.0	3	Y
NuTone	QTXEN080FLT	Fan-Fluorescent Light	6"	80	0.3	40.0	3	Y
Panasonic	FV-11VQL4	Fan-Fluorescent Light	4"	110	1.0	35.9	3	Y
Broan	QTXE110FLT	Fan-Fluorescent Light	6"	110	0.7	36.7	3	Y
NuTone	QTXEN110FLT	Fan-Fluorescent Light	6"	110	0.7	36.7	3	Y
Panasonic	FV-15VQL4	Fan-Fluorescent Light	6"	150	1.2	35.7	3	Y
Broan	QTXE150FLT	Fan-Fluorescent Light	6"	150	1.4	53.6	3	Y
NuTone	QTXEN150FLT	Fan-Fluorescent Light	6"	150	1.4	53.6	3	Y

# Duct Hanging Products

## Metal Straps

Item #	Type	Gauge	Length
710-A1710	Strapping Hanger Iron	28	10'
710-001	1" Duct Strap	26	100'
710-004	1-1/2" Duct Strap	26	100'



## Webbed and Cable Straps

Item #	Type	Length	Qty.
7-P36	Cable Tie for up to 10" Duct	36"	50/bag
7-P48	Cable Tie for up to 14" Duct	48"	50/bag
710-100	1-3/4" Webbed Strap	100 Yard Roll	



# Adhesives

## Caulking Products

Item #	Description	Qty.
7-4000	Clear Silicone Sealant	10.3 fl. oz. Tube
7-4100	White Silicone Sealant	10.3 fl. oz. Tube
6-202-1	DiversiGum Sealing Compound	1 lb. Slug
ag-25	DiversiGum Caulking Cord	3/8" x 25' Cord
7-200	Standard Duty Caulk Gun	



## Spray Adhesives / Sealants

Item #	Description	Qty.
1000S	Fasson Spray Adhesive	17 fl. oz. Can
01714	Foam Sealant	12 oz. Can



# Tapes

## Ideal® Metal Tape

Item #	Description	UL Listing
IS-2000	2.5" Foil Tape	UL 181A-P



## Venture® Metal Tape

Item #	Description	UL Listing
1581A	2.5" Foil Tape	UL 181A-P



## Fasson® Metal Tapes

Item #	Description	UL Listing
0810	2.5" Foil Tape	UL 181A-P
0802	2.5" Foil Tape	UL 723
0821	3.0" Foil Scrim Tape	UL 723



## Insulation Tapes

Item #	Description	Dimensions
6-330	Cork Insulation Tape	1/8" x 2" x 30' Roll
6-9718	Foam Insulation Tape	1/8" x 2" x 30' Roll



## Teflon Tapes

Item #	Description
TEFLON-1/2	1/2" x 260" Teflon Tape
TEFLON-3/4	3/4" x 260" Teflon Tape



## Duct Tapes

Item #	Description	UL Listing
950	Black Duct Tape	Economy Duct Tape
957B	14mil Black Duct Tape	UL 181B-FX



INSTALLATION

# RCD Corporation® Mastics

Item #	Description	Size
RCD-6-1	#6 Mastic®	1 Gallon
RCD-6-2	#6 Mastic®	2 Gallon
RCD-8-1	#8 Mastic®	1 Gallon
RCD-8-2	#8 Mastic®	2 Gallon
RCD-9-1	#9 Mastic®	1 Gallon
RCD-9-2	#9 Mastic®	2 Gallon
RCD-15-1	#15 Weather Barrier®	1 Gallon
RCD-10-1	#10 Economy Mastic®	1 Gallon
RCD-10-2	#10 Economy Mastic®	2 Gallon



**#6 Mastic®** Low to High Velocity Air Duct Sealant is fiber reinforced and preferred by professionals for sealing air ducts, thermal insulation, house wrap and crawl space vapor retarders in home weatherization projects, remodels, retrofits and new construction. #6 Mastic® is easily applied by brush, trowel, palm, spray or extrusion (ask for tech bulletin on recommended spray/extrusion equipment). UL Listed. Cream White in color.

**#8 Mastic®** Low to High Velocity Sheet Metal Air Duct Sealant is the best choice for permanently sealing high velocity sheet metal air ducts in schools, apartments, hospitals, offices, large retail spaces, dormitories, government and military installations. Easily applied by brush, trowel, spray or extrusion (ask for tech bulletin on recommended spray/extrusion equipment). UL Listed. Gray in color.

**#9 Mastic®** Low to High Velocity Air Duct Sealant is preferred by HVAC contractors installing fiberglass duct board and flexible duct systems. When applied around the top perimeter of a crawl space #9 Mastic® creates an easily monitored zone for detecting termites crossing the barrier to the wooden structure. Easily applied by brush, trowel, spray or extrusion (ask for tech bulletin on recommended spray/extrusion equipment). UL Listed. White in color.

**#10 Mastic®** Low to High Velocity Air Duct Sealant is fiber reinforced and seals the fabricated joints and seams of thermal insulation and air ducts. Easily applied by brush, trowel, palm, spray or extrusion (ask for tech bulletin on recommended spray/extrusion equipment). UL listed. Tan in color.

**#15 Weather Barrier Coating®** is a bright white, elastomeric coating for protecting air ducts and thermal insulation exposed to the weather. It prevents degradation of closed cell foam insulation on line sets, provides years of service as a lagging adhesive and reflects solar radiation as a roof coating. Applied by brush, roller or spray equipment (ask for tech bulletin on recommended spray equipment). UV resistant. Bright White in color.

## HardCast CCWI-181 Mastic

A versatile, all purpose duct sealant for use on all types of metal duct, fiberglass duct board, duct fabric and flex duct. CCWI- 181 incorporates a built-in polyester reinforcement for exceptional strength, with UV inhibitors for outdoor use. UL 181A-M listed / UL 181B-M listed.



## Mastic Accessories

Item #	Description	Size
303250	Glasscoat® Joint Scrim	3" X 150' Roll
MASTIC BRUSH	3" Chip Brush	3"
307214	Fin & Plenum Brush	2" x 18"



INSTALLATION

## Condenser Mounting

### Hurricane Pads

Designed specifically for the hurricane prone regions of Florida and the Gulf Coast, The Hurricane Pad™ meets stringent local code requirements for wind resistance. Heavier than a normal concrete pad, this 4" pad provides sufficient weight to meet code.



### Risers & Anti-Vibration Pads

Item #	Description	Case Qty.
MP-2E	2" x 2" x 7/8" Anti-Vibration Pad	48
HPR-3	3" Riser	48
HPR-3-2P	3" 2-Piece Riser	32



Item #	Size	Item #	Size
H1840-4	18" x 40" x 4"	H3652-4	36" x 52" x 4"
H3030-4	30" x 30" x 4"	H3865-4	38" x 65" x 4"
H3636-4	36" x 36" x 4"	H4040-4	40" x 40" x 4"
H3642-4	36" x 42" x 4"	H4558-4	45" x 58" x 4"
H3648-4	36" x 48" x 4"		

## Condenser Tie-Down Kits

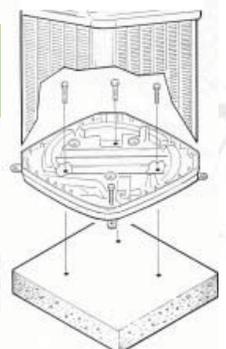
Item #	Description	Qty.
BMTD06	6" Condenser Tie Down	4 pack
BMTD06S	6" Tie Down w/ Screws	4 pack
KIT14994	Carson Duragrid Anchor Kit	each



## Trane "Extreme Condition" Condenser Mounting Kit

Trane Extreme Conditions Mounting Kits meet the requirements of the Florida Building Code (2007) for wind resistance and anchoring requirements at a maximum wind speed of 150mph at a 3-second gust. Each kit will mount 5 -10 units depending on condenser height.

Item #	Trane OE Item #	Qty.
KIT15190	BAYECMT023	5-10 Units



# Aluminum Roof Stands

The **ALUMA STAND** is 18 inches from the base to the bottom of the rail, allowing you to accommodate different thickness of roofing material, and we can also construct the legs to be of any custom height required for a unique job.

The stand is fully adjustable in 2" increments from 18 inches to 28 inches wide (CTC) to accommodate virtually all condensers or package units. Built entirely out of aluminum, it has an all welded joint construction.

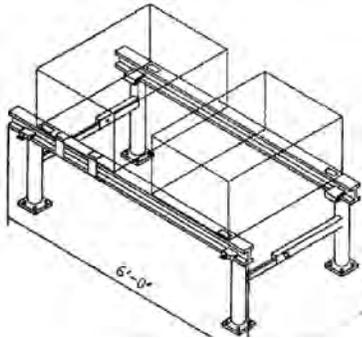
Six standard rail lengths are available. 3', which is designed to hold one unit, 6', which is designed to hold two units, 9', designed to hold three units, and 12', designed to hold 4 units. 15', designed to hold 5 units and 18', designed to hold 6 units. Other rail lengths, from 2' to 27' long are available.

Each stand comes standard with 4 inch square mounting pads, predrilled with 5/16" holes for attachment to any type of roof.

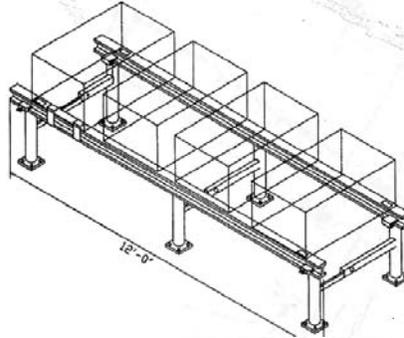
The **HEAVY-DUTY ALUMA STAND** is also available. Constructed of heavier gauge aluminum, these stands will allow units weighing up to 350 lbs. to be placed on buildings up to 18 stories tall, with stand leg heights up to 30" tall.

## NO MORE PITCH PANS!!!! ADD LEAD FLASHINGS TO YOUR STANDS

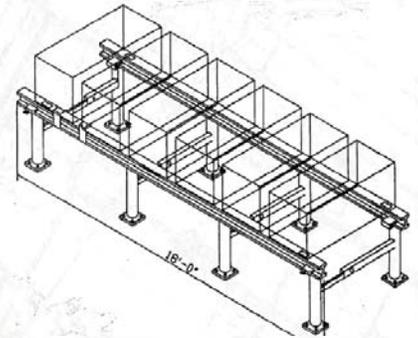
Add lead flashings to your ALUMA STANDS and you can forget about installing pitch pans around each base plate on the job. Available in 4 lb. weight configuration, and custom fitted to each ALUMA STAND leg, these lead flashings simplify the installation and lower your labor costs significantly.



3' & 6' Stands Require 2 Legs



9' & 12' Stands Require 3 Legs



15' & 18' Stands Require 4 Legs

Roof Stand Leg Item #	Description
ROOFSTAND-LEG18	18" Tall Adjustable Roof Stand Leg
ROOFSTAND-LEG24	24" Tall Adjustable Roof Stand Leg

Roof Stand Rail Item #	Description
ROOFSTAND-RAIL3	3' Roof Stand Beam
ROOFSTAND-RAIL6	6' Roof Stand Beam
ROOFSTAND-RAIL9	9' Roof Stand Beam
ROOFSTAND-RAIL12	12' Roof Stand Beam

Custom-Sized Roof Stands are Available!

# Metal Products

## Secondary Drain Pans

26 Gauge Item #	Size
PAN-26GA26X40	26" x 40"
PAN-26GA26X48	26" x 48"
PAN-26GA26X56	26" x 56"
PAN-26GA26X62	26" x 62"
PAN-26GA26X68	26" x 68"
PAN-26GA28X48	28" x 48"
PAN-26GA28X54	28" x 54"
PAN-26GA28X58	28" x 58"
PAN-26GA28X60	28" x 60"
PAN-26GA30X60	30" x 60"
PAN-26GA30X66	30" x 66"



24 Gauge #	Size
PAN-28X48	28" x 48"
PAN-28X54	28" x 54"
PAN-30X60	30" x 60"
PAN-30X66	30" x 66"
PAN-32X50	32" x 50"

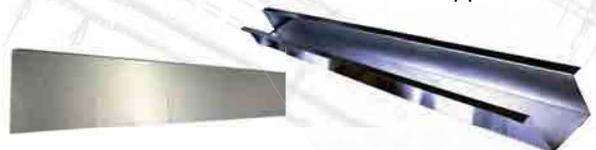
## Hanger Kit for Air Handlers & Pans

Item #	Contents	Qty.
HANGER KIT 3/8"	32" x 14 Gauge Slotted Angles	2
	3/8" x 6ft Threaded Rods	4
	1/4" x 3" Eye Bolts	4
	1/4" x 2" Eye Lag Bolts	4
	1/4" Hex Nuts	4
	3/8" Hex Nuts	8
	5/16" Flat Washers	12
	3/8" Fender Washers	4



## Start Collar & Line Covers

Item #	Description
START COLLAR	8' x 5.5" Start Collar Heat Shield
LINECOVER-4X5X10C	4" x 5" x 10' Capped Linecover



## Adjustable Air Handler Stands

Item #	Height	Depth	Adjustable Width
HEB18W	18"	22"	17" - 27"
HEB30N	30"	22"	14" - 24"



INSTALLATION

# Copper Fittings

## Rolled Stop Couplings - C x C



Fitting #	Size	Pack Qty.
W01003	1/4"	100
W010142	5/16"	100
W01009	3/8"	100
W01017	1/2"	100
W01022	5/8"	50
W01028	3/4"	25
W01034	7/8"	25
W01047	1-1/8"	25
W01055	1-3/8"	25
W01063	1-5/8"	10
W01072	2-1/8"	5

## Reducing Couplings - C x C



Fitting #	Description	Pack
W01010	3/8" x 5/16"	50
W01019	1/2" x 3/8"	50
W01023	5/8" x 1/2"	50
W01029	3/4" x 5/8"	50
W01035	7/8" x 3/4"	25
W01049	1-1/8" x 7/8"	25
W01056	1-3/8" x 1-1/8"	10
W01064	1-5/8" x 1-3/8"	10
W01073	2-1/8" x 1-5/8"	10

## Reducing Fittings - FTG x C



Fitting #	Size	Coupling Size	Pack Qty.
W01306	3/8"	1/4"	50
W01312	1/2"	3/8"	50
W01315	5/8"	1/2"	25
W01320	3/4"	5/8"	25
W01325	7/8"	3/4"	25
W01337	1-1/8"	7/8"	25
W01343	1-3/8"	1-1/8"	10
W01350	1-5/8"	1-3/8"	10
W01358	2-1/8"	1-5/8"	10

## 90° Long Radius Elbow - C x C



Fitting #	Size	Pack Qty.
W02715	1/4"	50
W02710	5/16"	50
W02716	3/8"	50
W02717	1/2"	50
W02722	5/8"	25
W02728	3/4"	10
W02734	7/8"	10
W02747	1-1/8"	5
W02055	1-3/8"	5
W02063	1-5/8"	5
W02072	2-1/8"	1

## 90° Long Radius Street Elbow - FTG x C



Fitting #	Size	Pack Qty.
W02809	3/8"	50
W02817	1/2"	25
W02822	5/8"	25
W02828	3/4"	10
W02834	7/8"	10
W02847	1-1/8"	5
W02350	1-3/8"	5
W02355	1-5/8"	5
W02359	2-1/8"	1

## 45° Elbow - C x C



Fitting #	Size	Pack Qty.
W03012	3/8"	50
W03021	1/2"	50
W03026	5/8"	25
W03030	3/4"	25
W03034	7/8"	10
W03044	1-1/8"	10
W03050	1-3/8"	10
W03055	1-5/8"	5
W03059	2-1/8"	5

## Tees - C x C x C



Fitting #	Description	Pack Qty.
W04000	3/8" TEE	50
W04001	1/2" TEE	25
W04006	5/8" TEE	25
W04017	3/4" TEE	10
W04031	7/8" TEE	10
W04048	1-1/8" TEE	5
W04068	1-3/8" TEE	5
W04084	1-5/8" TEE	5
W40102	2-1/8" TEE	1

# Copper Tubing

Item #	Description
COP-1/4	1/4" x 50' Copper Roll
COP-5/16	5/16" x 50' Copper Roll
COP-3/8	3/8" x 50' Copper Roll
COP-1/2	1/2" x 50' Copper Roll
COP-5/8	5/8" x 50' Copper Roll
COP-3/4	3/4" x 50' Copper Roll
COP-7/8	7/8" x 50' Copper Roll
COP-1-1/8	1-1/8" x 50' Copper Roll



Item #	Description
COP-3/8-100FT	3/8" x 100' Copper Roll
COP-1/2-100FT	1/2" x 100' Copper Roll
COP-5/8-100FT	5/8" x 100' Copper Roll
COP-3/4-100FT	3/4" x 100' Copper Roll
COP-7/8-100FT	7/8" x 100' Copper Roll
COP-1-1/8-100FT	1-1/8" x 100' Copper Roll

# Tubing Insulation

## 1/2" Wall Thickness - 6' Sticks

Item #	Mfg. #	Tube OD	Wall Thickness	Case Qty.
ARM-3/8X1/2	ACT03812	3/8"	1/2"	75
ARM-1/2X1/2	ACT01212	1/2"	1/2"	66
ARM-5/8X1/2	ACT05812	5/8"	1/2"	50
ARM-3/4X1/2	ACT03412	3/4"	1/2"	40
ARM-7/8X1/2	ACT07812	7/8"	1/2"	35
ARM-1-1/8X1/2	ACT11812	1-1/8"	1/2"	25
ARM-1-3/8X1/2	ACT13812	1-3/8"	1/2"	20



## 3/4" Wall Thickness - 6' Sticks

Item #	Mfg. #	Tube OD	Wall Thickness	Case Qty.
ARM-1/2X3/4	ACT01234	1/2"	3/4"	35
ARM-5/8X3/4	ACT05834	5/8"	3/4"	24
ARM-3/4X3/4	ACT03434	3/4"	3/4"	23
ARM-7/8X3/4	ACT07834	7/8"	3/4"	20
ARM-1-1/8X3/4	ACT11834	1-1/8"	3/4"	15
ARM-1-3/8X3/4	ACT13834	1-3/8"	3/4"	12



## 3/16" Wall Thickness - 6' Sticks

### For Condensate Line Applications

Item #	Mfg. #	Tube OD	Wall Thickness	Case Qty.
ARM-1-1/8X3/16	OET11836N2	1-1/8"	3/16"	44

## Insulation Glue



Item #	Mfg. #	Size
ARM GLUE-1/2 PINT	Armaflex® 520	1/2 Pint

## Sheet Insulation

Item #	Mfg. #	Sheet Size	Thickness	Case Qty.
ARM SHEET-3X4X3/4	APS34043	3' x 4'	3/4"	8
ARM SHEET-3X4X1	APS10043	3' x 4'	1"	6



## Insulation Paint - Item # RCD-15-1

#15 Weather Barrier Coating® is a bright white, elastomeric coating for protecting air ducts and thermal insulation exposed to the weather. It prevents degradation of closed cell foam insulation on line sets, provides years of service as a lagging adhesive and reflects solar radiation as a roof coating. Applied by brush, roller or spray equipment. UV resistant. Bright White.



UNTREATED



PROTECTED

# Brazing & Welding Miscellaneous Supplies

## Heat Sink and Shields

Item #	Description	Size
91861	"Cool Blue" Heat Sink Paste	11 oz.
CHM00781	Nu-Calgon Thermo-Trap Gel	32 oz.
FB12	Flame Barrier Pad	12" x 12"

## General Purpose Brushes

Brush #	Description
B-1	Acid Brush
B-4	Small Welder Brush
B-10	Large Wire Brush

## Abrasive Pads & Cloth

Item #	Description	Qty.
ACP-10	Abrasive Cleaning Pads	10 Pack
SC-10	120 Grit Abrasive Cloth - 1.5" Wide	10 Yards
SC-25	120 Grit Abrasive Cloth - 1.5" Wide	25 Yards
SCM-5	180g. Open Mesh Sand Cloth - 1.5" Wide	5 Yards



## Tube & Fitting Brushes

Brush #	Tubing O.D. Size
B-125	3/8"
B-126	1/2"
B-127	5/8"
B-128	3/4"
B-129	7/8"
B-131	1-1/8"
B-132	1-3/8"



# Standard Brazing Alloys

This group of alloys allows the joining of copper to copper without a flux and copper based alloys (brass and bronze) with a flux.

Item #	Name	Size	Description	Ag %	Melt °F	Flow °F
95000	Fos Flo® 7 0% Brazing Rod	1 lb. Tube	An economical, very fluid medium temperature filler metal for use with copper, brass and bronze. Withstands moderate vibration. Fast Flow.	0%	1310	1460
95060	Sil-Fos® 5 5% Brazing Rod	1 lb. Tube	Designed primarily for those applications where close fit-ups cannot be maintained. It has the ability to fill gaps and form fillets without adversely affecting joint strength. Slow Flow.	5%	1190	1495
95150	Sil-Fos® 15 15% Brazing Rod	1 lb. Tube	Best alloy for general copper-copper brazing in the Sil-Fos family. For copper-to-copper joints the phosphorus in the Sil-Fos product serves as the fluxing agent and no separate flux is necessary. For brass applications however, flux is recommended. For use where close fit-ups cannot be maintained Sil-Fos 15 works well to "bridge" gaps. Highest joint ductility of the entire Sil-Fos family to best withstand the stresses inherent in refrigeration applications. Slow Flow.	15%	1190	1475



## Sil-Fos® 15 Rings

**Fast and Easy-to Use** Just insert the pre-sized ring into the fitting for hands free brazing.

<b>Visual Verification</b>	You can SEE when you've drawn the brazing material evenly
<b>Joint Quality</b>	Achieve more consistent and repeatable braze joint quality.
<b>Less Waste</b>	Wire sizes are calculated to apply the precise amount of braze alloy for each tube size.
<b>Lower Cost</b>	Saving time and materials saves you money!
<b>Inventory Control</b>	Allocate only what is needed per job.

Outer Diameter (OD) of Tubing	Part Number	Rings per Package
1/4"	98700	25
3/8"	98701	25
1/2"	98702	25
5/8"	98703	25
3/4"	98704	25
7/8"	98705	25
1-1/8"	98706	10

Sil-Fos® Rings are a brazing alloy composed of 15% Silver (Ag), formed into rings to fit inside the flared fitting used to join copper tubing and fittings (commonly used in HVAC/R systems). When properly heated, the rings create a tight, leak proof joint.

# High Silver Brazing Alloys

In refrigeration applications, much of the brazing involves joining copper tubing. However, there are numerous applications where other materials need to be joined (steel, brass, stainless steel, carbide, etc.) These high silver brazing alloys facilitate the joining of these metals.

Item #	Name	Size	Description	Ag %	Melt °F	Flow °F
98296	Easy Flo® 45	1 Oz. Pkg.	Versatile alloy, used for most ferrous and non-ferrous metals. Contains Cadmium, therefore exercise extreme caution as Cadmium fumes are toxic.	45%	1125	1145
98060	Braze™ 560	1 Oz. Pkg.	Lowest temperature, Cadmium-free filler metal, very fluid alloy flow	56%	1145	1205



## Flux-Coated Brazing Alloys

In addition to bare and cored high silver brazing alloys, we also offer rods that are coated with general purpose flux. 1/16" diameter wire is coated with flux for a final diameter of 1/8". Rods are 18" in length and the product is packaged into 1/4 pound tubes.

Item #	Name	Size	Description
98100	Braze™ 452	1/4 lb. Tube	45% Ag, Cd-Free (orange flux)
98120	Braze™ 560	1/4 lb. Tube	56% Ag, Cd-Free (yellow flux)



## Brazing & Soldering Flux

Item #	Description	Size
97030	Handy Flux® - White Brazing Flux	7 oz. Jar
97000	TEC® Liquid Soldering Flux	4 oz. Bottle
97020	Clean 'n Brite Paste Soldering Flux	4 oz. Jar



## Aluminum Brazing Kit - # P4KD9S

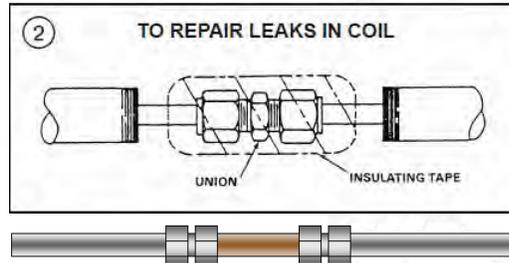
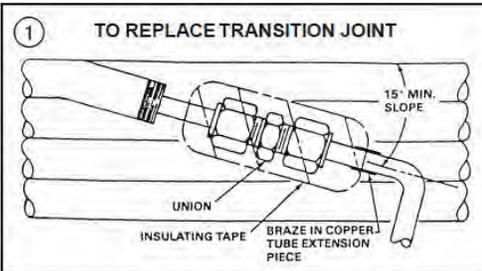
UNI-4300 Aluminum Soft Solder Kit with metal tip flux applicator. The service technician is frequently confronted with the task of repairing or joining aluminum to aluminum and aluminum to copper or brass. A common repair problem occurs when an air conditioning system's evaporator coil develops a small pin hole leak. An excellent product due to it's low melting point of 500 °F (260 °C) and 20,000 PSI tensile strength.



## Solder - 1lb. Spools

Item #	Name	Description
96010	Clean 'n Brite™ 6	Lead-free, silver-bearing high-strength solder used for applications requiring large joint clearances. Easiest Silver-bearing soft solder to work with as temperature range permits "bridging" loose fit-ups if necessary.
96040	Clean 'n	General purpose Tin/Antimony solder. Not for use on brass alloys.
96050	Solderite™ 50/50	Standard general purpose Tin/Lead solder for moderate joint clearances. Available as Solid, Acid or Rosin core.

## Spine-Fin Aluminum Coil Repair Kits



These kits are to be used for repair of aluminum coils only. Use on copper coils can cause leaks even though properly installed.

Item #	Coil Tubing Size
KIT08157	5/16"
KIT01146	3/8"
KIT01147	1/2"

## The Corrosion Grenade™

- An air conditioning unit utilizes copper tubing, aluminum coils, a galvanized steel housing and AC power
- Degradation of a systems coils is caused by galvanic corrosion, which is the electrolysis of dissimilar metals
- A salt air environment enhances this galvanic corrosion by coating the system and then acting as an electrolyte
- The **Corrosion Grenade™** protects metal parts by acting as a "Sacrificial Anode"
- A "Sacrificial Anode" corrodes instead of expensive A/C parts like aluminum fins, copper tubing, and galvanized / aluminized sheet steel
- **Corrosion Grenade™** anodes are made of 100% zinc. Zinc is at the extreme end of the galvanic scale, therefore protects all other metals by corroding first



Item #
ACZ-1/2
ACZ-5/8
ACZ-3/4
ACZ-7/8
ACZ-1-1/8

## Brazing & Welding Gases



### MAPP Gas

Item #	Description	Size
MDC	MAPP Gas Cylinder	16 oz.

### Nitrogen

Gas Item #	Tank Item #	Description
N40 GAS	N40 TANK	Nitrogen - 40 Cubic Ft.
N60 GAS	N60 TANK	Nitrogen - 60 Cubic Ft.
N125 GAS	N125 TANK	Nitrogen - 125 Cubic Ft.
N150 GAS	N150 TANK	Nitrogen - 150 Cubic Ft.
N200 GAS	N200 TANK	Nitrogen - 200 Cubic Ft.

### Oxygen

Gas Item #	Tank Item #	Description
R20 GAS	R20 TANK	Oxygen - 20 Cubic Ft.
R40 GAS	R40 TANK	Oxygen - 40 Cubic Ft.

### Acetylene

Gas Item #	Tank Item #	Description
MC GAS	MC TANK	Acetylene - 10 Cubic Ft.
B GAS	B TANK	Acetylene - 40 Cubic Ft.

# Your Equipment Headquarters

Split Systems, Rooftop Units, Generators, Mini-Splits, PTACs, Through-the-Wall Units, Portable Cooling, and more...



## Adsil<sup>®</sup> MICROGUARD<sup>™</sup> Extreme Performance Coating System For HVAC/R Equipment

## Protective Coating for Your HVAC Equipment



Untreated Coil After 4 Years



Treated Coil After 4 Years



Treated vs. Non-Treated - 2 Years

### New Condenser Coil Coatings\*

Coil Type	Out-of-Box Coil	Coil in Unit	Coil and Panels
1.5 to 5 Ton Spine Fin Coil	\$425	\$525	\$675
5 to 10 Ton Flat Fin Coil	\$650	\$725	\$925
12.5 to 15 Ton Flat Fin Coil	\$850	\$975	\$1,200
17.5 to 20 Ton Flat Fin Coil	\$1,075	\$1,225	\$1,450

\*Prices listed are for new coils. For existing coils in installed equipment, please call for a quotation. Prices are subject to change without notice.

### PRODUCT FEATURES

- Coats New or Existing Field Units
- Permanently Bonds to the Surface
- Forms an Inorganic, Ultra-thin, Glass-like Film
- Stays Cleaner Longer - Positive Surface Charge
- Naturally Repels Moisture, Chemicals, Oils & Dirt
- Enhances Laminar Airflow Across the Fins
- Protects Condenser, Evaporator, Fan & Cabinet
- 3-Year Coil/Fin Limited Warranty

Documented Energy Savings Substantiated by Independent Studies	Stays Cleaner Longer Reduces Clogged Fins	Effectively Resists Corrosion Defers Capital Expenditures
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# Honeywell Generators

Show your customers the benefits of automatic standby power.

When you think about it, every client you have is a potential customer for a generator. They have homes, families and lifestyles to protect. They trust the premium Honeywell brand name, but more important, they trust you and your reliable service. While automatic backup generators are not typical of the systems you install, they should be. Because there's no comfort or security without power. A Honeywell backup generator ensures everything remains up and running.



## Sell a generator. Sell a maintenance plan.

The initial sale and installation of an automatic standby generator is just the beginning of your revenue stream. With routine maintenance and service contracts you have a predictable model for cash flow and personnel needs. A Honeywell automatic standby generator keeps paying you year after year.

### 1. Sizing a generator

Sizing a Honeywell generator is a simple process that any associate can master in less than 90 minutes with our online courses on The Learning Center.



### 2. Easy installation

Most automatic backup generators can be installed quickly and easily by trained professionals.



### Estimated annual units installed/maintenance contracts in dollars

A standby backup generator continues to generate revenue, year after year.



## An extensive line of backup and portable generators.

As a Honeywell Generator dealer, you have access to the full range of power generation products, from portable and standby generators to transfer switches and accessories.



800-2000 Watts  
Inverter generators



3250-7500 Watts  
Portable generators



10, 15 and 20 kW  
Air-cooled automatic backup generators



25-45 kW  
Liquid-cooled residential backup generators



25-150 kW  
Liquid-cooled commercial backup generators

## Standby Generators & Accessories

Item #	Description
6033	15kW Air-Cooled Standby Generator w/ Aluminum Enclosure
6034	20kW Air-Cooled Standby Generator w/ Aluminum Enclosure
RTSL200A3	Sync 200a 120/240v Service Rated NEMA 3R Transfer Switch
6102	50amp DLM Load Control Management Module
GENPAD HURRICANE	OJ5340 54" x 31" x 4" Concrete Pad

## Portable Generators

Item #	Description
6037	5500 Watt Portable Generator w/ Electric Start
6039	7500 Watt Portable Generator w/ Electric Start

Many More Units are Available

# Samsung Standard Single Zone Mini-Splits

## "Vivace" Heat Pump Single Zone

SEER	BTU	Item #	Description
19	12000	AQV12VBE	Heat Pump Air Handler
		AQV12VBEX	Heat Pump Condenser
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
16	18000	AQV18VBE	Heat Pump Air Handler
		AQV18VBEX	Heat Pump Condenser
		ILS2507	25' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
		ILS5007	50' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
15.5	24000	AQV24VBE	Heat Pump Air Handler
		AQV24VBEX	Heat Pump Condenser
		ILS2509	25' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
		ILS5009	50' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)



## "Classic" 3-Ton Heat Pump Single Zone

SEER	BTU	Item #	Description
18	36000	AQV36JA	Heat Pump Air Handler
		AQV36JAX	Heat Pump Condenser
		ILS2509	25' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
		ILS5009	50' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)

## 4-Ton Floor Standing Single Zone

SEER	BTU	Item #	Description
15	48000	APV48Q0A	Heat Pump Air Handler
		UH140CAV	Heat Pump Condenser
Lineset Dimensions - 3/8" & 3/4"			

## Ducted Units

SEER	BTU	Item #	Description
17.8	12000	EH035CAV	Slim Duct Air Handler
		UH035CAV	Heat Pump Condenser
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
13.6	18000	EH052CAV	Slim Duct Air Handler
		UH052CAV	Heat Pump Condenser
		ILS2507	25' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
		ILS5007	50' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
15.1	24000	EH070CAV	Slim Duct Air Handler
		UH070CAV	Heat Pump Condenser
		ILS2509	25' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
		ILS5009	50' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
15.1	36000	DH105CAV	Medium Static Pressure Air Handler
		UH105CAV	Heat Pump Condenser
		Lineset Dimensions - 3/8" & 5/8"	
		13.6	48000
UH140CAV	Heat Pump Condenser		
Lineset Dimensions - 3/8" & 3/4"			

## Ceiling Cassette Units

SEER	BTU	Item #	Description
17	24000	CH070CAV1	33" x 33" Ceiling Cassette Air Handler
		UH070CAV1	Heat Pump Condenser
		ILS2509	25' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
		ILS5009	50' Lineset (1/4" x 5/8" - 14/3 & 16/2 Shielded Wire)
15.5	36000	CH105CAV	33" x 33" Ceiling Cassette Air Handler
		UH105CAV	Heat Pump Condenser
		Lineset Dimensions - 3/8" & 5/8"	
15.5	48000	CH140CAV	33" x 33" Ceiling Cassette Air Handler
		UH140CAV	Heat Pump Condenser
		Lineset Dimensions - 3/8" & 3/4"	

# Samsung 2-3-4 Multi Zone Units

Match up to 4 Air Handlers w/ a Condensing Unit  
(2-Ton Condenser uses 2 AHs, 3-Ton Condenser uses 2, 3, or 4 AHs)

### Condensing Units

SEER	BTU	Item #	Description
15.5 SEER	24000	MH050FXCA2A	2-Ton Multi-Zone Condenser
15.5 SEER	36000	MH080FXCA4A	3-Ton Multi-Zone Condenser

### 1-Way Mini Cassette 38" x 16" Air Handlers

SEER	BTU	Item #	Description
15.5	10000	NJ030MHXCA	38" x 16" Mini Cassette Air Handler
15.5	12000	NJ035MHXCA	38" x 16" Mini Cassette Air Handler
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)

### Slim Duct Air Handlers

SEER	BTU	Item #	Description
15.5	9000	MH026FECA	Multi-Zone Slim Duct Air Handler
15.5	12000	MH035FECA	Multi-Zone Slim Duct Air Handler
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		15.5	18000
ILS2507	25' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)		
ILS5007	50' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)		

### Wall Mount Air Handlers

SEER	BTU	Item #	Description
15.5	90000	MH026FNCA	Multi-Zone Wall Mount Air Handler
15.5	12000	MH035FNCA	Multi-Zone Wall Mount Air Handler
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
15.5	18000	MH052FNCA	Multi-Zone Wall Mount Air Handler
		ILS2507	25' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
		ILS5007	50' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)

### 4-Way Mini Cassette 23" x 23" Air Handlers

SEER	BTU	Item #	Description
15.5	10000	NJ030MHXCA	23" x 23" Mini Cassette Air Handler
15.5	12000	NJ035MHXCA	23" x 23" Mini Cassette Air Handler
		ILS2506	25' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
		ILS5006	50' Lineset (1/4" x 3/8" - 14/3 & 16/2 Shielded Wire)
15	18000	NJ052MHXCA	23" x 23" Mini Cassette Air Handler
		ILS2507	25' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)
		ILS5007	50' Lineset (1/4" x 1/2" - 14/3 & 16/2 Shielded Wire)



# Quietside Mini-Splits

## Straight Cool Single Zone

SEER	BTU	Item #	Description
13 SEER	9000	QSCE093	Straight Cool Air Handler
		QSCC093	Straight Cool Condenser
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)
13 SEER	12000	QSCE123	Straight Cool Air Handler
		QSCC123	Straight Cool Condenser
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)
13 SEER	18000	QSCE183	Straight Cool Air Handler
		QSCC183	Straight Cool Condenser
		SLS2508	25' Lineset (3/8" x 5/8" - 14/7 Wire)
		SLS5008	50' Lineset (3/8" x 5/8" - 14/7 Wire)
13 SEER	24000	QSCE241	Straight Cool Air Handler
		QSCC241	Straight Cool Condenser
		SLS2508	25' Lineset (3/8" x 5/8" - 14/7 Wire)
		SLS5008	50' Lineset (3/8" x 5/8" - 14/7 Wire)

## Heat Pump Single Zone

SEER	BTU	Item #	Description
14 SEER	9000	QSHE093	Heat Pump Air Handler
		QSHC093	Heat Pump Condenser
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)
14 SEER	12000	QSHE123	Heat Pump Air Handler
		QSHC123	Heat Pump Condenser
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)
14 SEER	18000	QSHE183	Heat Pump Air Handler
		QSHC183	Heat Pump Condenser
		SLS2508	25' Lineset (3/8" x 5/8" - 14/7 Wire)
		SLS5008	50' Lineset (3/8" x 5/8" - 14/7 Wire)
13 SEER	24000	QSHE243	Heat Pump Air Handler
		QSHC243	Heat Pump Condenser
		SLS2508	25' Lineset (3/8" x 5/8" - 14/7 Wire)
		SLS5008	50' Lineset (3/8" x 5/8" - 14/7 Wire)



## Hi-Efficiency Heat Pump Single Zone

SEER	BTU	Item #	Description
22.8 SEER	9000	QSVSI-09A	Heat Pump Air Handler
		QSVSO-09A	Heat Pump Condenser
		SLS2506	25' Lineset (1/4" x 3/8" - 14/7 Wire)
		SLS5006	25' Lineset (1/4" x 3/8" - 14/7 Wire)
20.6 SEER	12000	QSVSI-12A	Heat Pump Air Handler
		QSVSO-12A	Heat Pump Condenser
		SLS2506	25' Lineset (1/4" x 3/8" - 14/7 Wire)
		SLS5006	25' Lineset (1/4" x 3/8" - 14/7 Wire)
18 SEER	18000	QSVSI-18A	Heat Pump Air Handler
		QSVSO-18A	Heat Pump Condenser
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)
18 SEER	24000	QSVSI-24A	Heat Pump Air Handler
		QSVSO-24A	Heat Pump Condenser
		SLS2509	25' Lineset (1/4" x 5/8" - 14/7 Wire)
		SLS5036	50' Lineset (1/4" x 5/8" - 14/7 Wire)

## 2/3 Multi Zone Units

**Match 2 or 3 Air Handlers with a Condensing Unit**  
(2-Ton Condenser uses 2 AHs, 3-Ton Condenser uses 2 or 3 AHs)

### Condensing Units

SEER	BTU	Item #	Description
16 SEER	24000	QSVMO-24A	2-Ton Multi-Zone Condenser
16 SEER	36000	QSVMO-36A	3-Ton Multi-Zone Condenser

### Wall Mount Air Handlers

SEER	BTU	Item #	Description
16 SEER	9000	QSVMI-09A	Multi-Zone Air Handler
		SLS2506	25' Lineset (1/4" x 3/8" - 14/7 Wire)
		SLS5006	25' Lineset (1/4" x 3/8" - 14/7 Wire)
16 SEER	12000	QSVMI-12A	Multi-Zone Air Handler
		16 SEER	18000
		SLS2507	25' Lineset (1/4" x 1/2" - 14/7 Wire)
		SLS5007	50' Lineset (1/4" x 1/2" - 14/7 Wire)

# Mini-Split Accessories

## Control Wire

Item #	Description	Length
I33-100	Samsung 16/2 Shielded Control Wire	100 ft.
I33-250	Samsung 16/2 Shielded Control Wire	250 ft.
M33-100	Quietside 14/7 AWG Control Wire	100 ft.
M33-250	Quietside 14/7 AWG Control Wire	250 ft.

## Ambient Controls & Line Monitors

Item #	Description
ICM326H	Low Ambient Control for Quietside Units
MON00047	ICM-492 Single-Phase Line Monitor

## Condenser Mounting

Item #	Description
H1840-4	Mini-Split Condenser Pad
CKN-250	Wall-Mount Bracket

## Little Giant Condensate Pumps

Item #	Voltage
553455	115v
553458	230v

# LG Packaged Terminal Air Conditioners

### Ventilation Filter

Polymeric mesh filter allows clean fresh air into the living space. Ideal for healthcare applications.

### Emergency Heat

(Heat Pump Models Only)  
Bypasses compressor operation and activates the ceramic heater during periods of extreme cold. Promotes high level of guest comfort.

### Freeze Room Protection

Electronic temperature controls constantly monitor and maintain indoor temperature to prevent freezing.

### Separate Indoor & Outdoor Motors

Dual motor configuration allows the lowest sound rating in the industry while also promoting the highest level of Energy Efficiency.

### Defrost Control

(Heat Pump Models Only)  
Shuts down the indoor fan to prevent cold air from being blown into the room. Also removes frost from outdoor coil when the outdoor temperature is low.

### Pressure control

Protects guests by shutting down the compressor on abnormal high pressure condition.

### Sensors

4 Sensors provide Highly Efficient operation and maximizes guest comfort.

### High Efficiency Compressor

Energy efficient and maintenance-free operation.

### Power Cord

Included with every unit.

### Dip Switch setting

Saves money by control of the Lowest & Highest temperature.



System Model #	LP073CD2A	LP093CD3A	LP123CD3A	LP153CD3A	LP073HD2A	LP093HD3A	LP123HD3A	LP153HD3A
Control Type	Digital	Digital	Digital	Digital	Digital	Digital	Digital	Digital
<b>Performance</b>								
Capacity (BTUs) <sup>C</sup> <sup>H</sup>	7,400/7,200	9,000/8,800	11,800/11,600	14,300/14,100	7,400/7,200 6,400/6,200	9,000/8,800 8,100/7,900	11,800/11,600 10,800/10,600	14,700/14,500 12,100/11,900
Refrigerant	R410A	R410A	R410A	R410A	R410A	R410A	R410A	R410A
EER	11.6	11.0	10.6	9.2	11.6	11.0	10.6	9.4
<b>Air Circulation</b>								
(CFM H/L)	335/300	335/300	390/355	390/355	335/300	335/300	390/355	390/355
<b>Fan Speeds</b>								
(Cooling/Heating/Fan)	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
<b>Dehumidification</b>								
(pts/hr)	2.0	2.6	3.5	4.4	2.0	2.6	3.5	4.6
Indoor dB(A)*	45/43	46/44	50/48	50/48	45/43	46/44	50/48	50/48
Outdoor dB(A)*	61	61	63	63	61	61	63	63
STC	30	30	30	30	30	30	30	30
<b>Electrical</b>								
Rated Voltage	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1	230/208-60-1
Electric Heater (kW)	2.5	3.5	3.5	3.5	2.5	3.5	3.5	3.5
Circuit Breaker (A)	15	20	20	20	15	20	20	20
<b>Dimensions</b>								
W x H x D (inches)	42 x 16 x 19 7/8	42 x 16 x 19 7/8	42 x 16 x 19 7/8	42 x 16 x 19 7/8				
Weight (lbs.)	86	93	93	101	91	97	97	105
<b>Thermostat Range</b>								
Cooling/Heating (°F)**	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86
*LG verified sound rating								
**Adjustable by temperature limiting with DIP switches on the unit								

System Model #	LP076CD2A	LP096CD3A	LP126CD3A	LP156CD3A	LP076HD2A	LP096HD3A	LP126HD3A	LP156HD3A
Control Type	Digital							
<b>Performance</b>								
Capacity (BTUs) <sup>C</sup> <sub>H</sub>	7,200	9,000	11,800	14,000	7,300 6,100	9,200 8,200	11,800 10,700	14,700 12,100
Refrigerant	R410A							
EER	11.0	10.5	10.2	9.0	11.2	10.8	10.4	9.4
Air Circulation (CFM H/L)	300/270	300/270	420/390	420/390	300/270	300/270	420/390	420/390
Fan Speeds (Cooling/Heating/Fan)	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2	2/2/2
Dehumidification (pts/hr)	2.0	2.6	3.5	4.4	2.0	2.6	3.5	4.6
Indoor dB(A)*	45/43	46/44	50/48	50/48	45/43	46/44	50/48	50/48
Outdoor dB(A)*	61	61	63	63	61	61	63	63
STC	30	30	30	30	30	30	30	30
<b>Electrical</b>								
Rated Voltage	265-60-1	265-60-1	265-60-1	265-60-1	265-60-1	265-60-1	265-60-1	265-60-1
Electric Heater (kW)	2.0	3.7	3.7	3.7	2.0	3.7	3.7	3.7
Circuit Breaker (A)	15	20	20	20	15	20	20	20
<b>Dimensions</b>								
W x H x D (inches)	42 x 16 x 19 7/8							
Weight (lbs.)	88	94	94	102	91	99	99	106
<b>Thermostat Range</b>								
Cooling/Heating (°F)**	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86	54-86/54-86
*LG verified sound rating								
**Adjustable by temperature limiting with DIP switches on the unit								

### 230v Straight Cool Units

New Item #	Old Item #	BTU	Power	Type
LP073CD2B	LP073CD2A	7000	208-230/60/1	Straight Cool
LP093CD3B	LP093CD3A	9000	208-230/60/1	Straight Cool
LP123CD3B	LP123CD3A	12000	208-230/60/1	Straight Cool
LP153CD3B	LP153CD3A	15000	208-230/60/1	Straight Cool

### 230v Heat Pump Units

New Item #	Old Item #	BTU	Power	Type
LP073HD2B	LP073HD2A	7000	208-230/60/1	Heat Pump
LP093HD3B	LP093HD3A	9000	208-230/60/1	Heat Pump
LP123HD3B	LP123HD3A	12000	208-230/60/1	Heat Pump
LP153HD3B	LP153HD3A	15000	208-230/60/1	Heat Pump

### 265v Straight Cool Units

New Item #	Old Item #	BTU	Power	Type
	LP076CD2A	7000	265/60/1	Straight Cool
LP096CD3B	LP096CD3A	9000	265/60/1	Straight Cool
LP126CD3B	LP126CD3A	12000	265/60/1	Straight Cool
	LP156CD3A	15000	265/60/1	Straight Cool

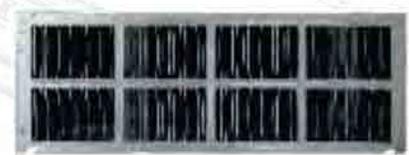
### 265v Heat Pump Units

New Item #	Old Item #	BTU	Power	Type
	LP076HD2A	7000	265/60/1	Heat Pump
LP096HD3B	LP096HD3A	9000	265/60/1	Heat Pump
LP126HD3B	LP126HD3A	12000	265/60/1	Heat Pump
	LP156HD3A	15000	265/60/1	Heat Pump

## PTAC Accessories



Item #	Description
AYSVB01A	42" Wall Sleeve
AYRGALA01	Stamped Aluminum Grille



# Replacement Compressor/ CenTraVac Motor Extended Warranties

The service compressor five year warranty provides an extension of the standard Trane parts warranty commencing when the Trane standard warranty expires. This warranty can only be purchased for a service compressor purchased from Trane and must be ordered when the compressor is sold. The five year warranty applies only to compressors installed in equipment located in the U.S. and Canada.

## Trane OEM Residential and LCU Compressors

### Climatuff Residential and LCU Recip Compressors 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
	0.5 - 1.4	2705-9000-G0-10	\$ 106.51
Models beginning with AL*, AS*, AP*, DL*, DS*, DP*, GH*, GP*, FH*, SH*, SP*, also called Tyler	1.5 - 2.3	2705-9000-G0-20	\$ 118.96
	2.4 - 2.9	2705-9000-G0-25	\$ 142.47
	3.0 - 3.3	2705-9000-G0-30	\$ 167.37
	3.5 - 4.3	2705-9000-G0-40	\$ 210.25
	4.6 - 5.6	2705-9000-G0-50	\$ 261.43
	6.7 - 7.0	2705-9000-G0-60	\$ 308.58

### Climatuff (Alliance) Unitary Scrolls 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
models beginning with SPA*, SPE*, SPR*, SSA*, SSE*, SSR*, SXR*, also called Alliance Scrolls	1.6 - 2.8	2705-9000-S0-02	\$ 156.31
	3.0 - 3.9	2705-9000-S0-03	\$ 178.44
	4.0 - 5.1	2705-9000-S0-04	\$ 214.40
	5.2 - 6.8	2705-9000-S0-05	\$ 261.43

### New Trane Hermetic Service Compressors

#### 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
Includes Reciprocating and scroll compressors for Trane OEM Equipment	6.2	2705-9000-H0-62	\$ 347.19
	7.5	2705-9000-H0-75	\$ 401.14
	8.3	2705-9000-H0-83	\$ 431.56
	10	2705-9000-H1-00	\$ 467.53

### Cornerstone LCU and Commercial Scrolls

#### 2nd - 5th Year Extended Warranty

models beginning with CSHA*, CSHB*, CSHC*, CSHD*, CSHN*	6.2 - 7.7	2705-9000-S0-08	\$ 373.47
	8.0 - 9.0	2705-9000-S0-09	\$ 437.10
	12.5 - 13.4	2705-9000-S1-01	\$ 546.37
	14 - 20	2705-9000-S1-02	\$ 654.26
	25 - 30	2705-9000-S0-14	\$ 816.10

## Non-Trane Compressors

#### 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
Non Trane Compressors (reciprocating, scroll, and screw compressors). Manufactured by Bristol, Bitzer, Copeland Danfoss, and Tecumseh.	.1 - .5	2705-9000-C0-07	\$ 69.16
	.6 - .9	2705-9000-C0-10	\$ 99.60
	1 - 1.4	2705-9000-C0-15	\$ 107.89
	1.5 - 1.9	2705-9000-C0-20	\$ 128.64
	2 - 2.4	2705-9000-C0-25	\$ 150.77
	2.5 - 2.9	2705-9000-C0-30	\$ 192.27
	3 - 3.49	2705-9000-C0-35	\$ 206.10
	3.5 - 3.9	2705-9000-C0-40	\$ 225.46
	4 - 4.9	2705-9000-C0-50	\$ 257.28
	5 - 5.9	2705-9000-C0-62	\$ 290.48
	6 - 6.9	2705-9000-C0-75	\$ 376.24
	7 - 7.8	2705-9000-C0-83	\$ 435.72
	8 - 8.8	2705-9000-S1-00	\$ 474.45
	9 - 12.8	2705-9000-T1-00	\$ 636.28
	13 - 14.6	2705-9000-S1-25	\$ 796.73
	15 - 15.8	2705-9000-T1-25	\$ 955.80
	17.7 - 21.1	2705-9000-S1-50	\$ 1,073.38
	24 - 25	2705-9000-T1-50	\$ 1,373.54
	30 - 32	2705-9000-T2-00	\$ 1,590.70
53	2705-9000-T2-50	\$ 3,222.63	
71	2705-9000-T3-00	\$ 3,842.39	
82	2705-9000-T3-50	\$ 4,559.14	

#### 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
Series 6000 Non-Trane Compressor (may be Copeland, Carrier, Carlyle, Bitzer, or York Compressors) Rebuilt by a Trane approved vendor. Please note: Extended warranty protection not available on series 6000 Trane Compressors	5	2705-9000-60-01	\$ 359.64
	6 - 6.7	2705-9000-60-06	\$ 376.24
	7.5	2705-9000-60-02	\$ 435.72
	8	2705-9000-60-07	\$ 474.45
	9 - 10	2705-9000-60-08	\$ 636.28
	12 - 12.7	2705-9000-60-09	\$ 796.73
	14 - 15	2705-9000-60-03	\$ 955.80
	20 - 25	2705-9000-60-10	\$ 982.09
	27 - 30	2705-9000-60-12	\$ 1,037.42
	35 - 40	2705-9000-60-13	\$ 1,373.54
	50	2705-9000-60-20	\$ 1,670.93
	60	2705-9000-60-21	\$ 1,978.00
	75 - 90	2705-9000-60-22	\$ 2,420.63
125 - 145	2705-9000-60-23	\$ 3,167.57	

## Trane Screw Compressors

### 2nd - 5th Year Extended Warranty

Models	Tons	Item #	Price
	35 / 40	2705-9000-35-00	\$ 1,646.03
	50	2705-9000-50-00	\$ 1,871.50
	60	2705-9000-60-00	\$ 2,022.27
	70	2705-9000-70-00	\$ 3,105.45
	85	2705-9000-85-00	\$ 2,401.27
Trane Screw Compressors (Models beginning with CHH*) May be new or remanufacture compressors manufactured by Trane)	100	2705-9000-N1-00	\$ 2,881.43
	120	2705-9000-N1-20	\$ 3,438.57
	130/140	2705-9000-13-00	\$ 4,080.50
	150	2705-9000-15-00	\$ 4,196.69
	170 / 180	2705-9000-18-00	\$ 4,391.73
	200 - 225	2705-9000-21-00	\$ 4,530.04
	240	2705-9000-21-50	\$ 4,744.58
	250 - 300	2705-9000-25-00	\$ 4,806.69
	350	2705-9000-N3-50	\$ 5,277.11
	380	2705-9000-38-00	\$ 5,740.36
400	2705-9000-40-00	\$ 6,075.10	
450	2705-9000-45-00	\$ 6,402.93	

## ReSpect Cast Iron Compressors

### 3rd - 5th Year Extended Warranty

Models	Tons	Item #	Price
Model K (reman CRHK*)	20	2705-9005-K2-00	\$ 795.35
	25	2705-9005-K2-50	\$ 946.12
	30	2705-9005-K3-00	\$ 1,062.32
Model M (reman CRHM*)	15	2705-9005-M1-50	\$ 1,063.69
	20	2705-9005-M2-00	\$ 1,034.65
	25	2705-9005-M2-50	\$ 1,172.97
	30	2705-9005-M3-00	\$ 1,203.40
Model F (reman 2F5*3*, 2F5*4*, 2F5*5*, 2F5*6*, 2F5*8*)	10 -15	2705-9005-F1-50	\$ 1,131.48
	20	2705-9005-F2-00	\$ 1,397.05
	25	2705-9005-F2-50	\$ 1,576.87
	30	2705-9005-F3-00	\$ 1,836.92
	40 and up	2705-9005-F4-00	\$ 1,969.70
	35	2705-9005-R3-50	\$ 1,373.54
	40	2705-9005-R4-00	\$ 1,373.54
Model R (reman CRHR*)	50	2705-9005-R5-00	\$ 1,670.93
	60	2705-9005-R6-00	\$ 1,889.48
	40/45/50	2705-9005-E5-00	\$ 1,684.53
Model E (reman 2E5*4*, 2E5*5*, 2E5*6*, 2E5*8*)	60	2705-9005-E6-00	\$ 1,978.02
	75	2705-9005-E7-50	\$ 2,420.63
	100	2705-9005-10-00	\$ 3,167.57

## Compressor Labor Warranties

Models	Max Claim	Months	Item #	Price
Trane Service First OEM Compressors	\$1,000	12	2715-0010-TS-00	\$ 338.89
	\$2,500	12	2715-0025-TS-00	\$ 691.61
	\$3,500	12	2715-0035-TS-00	\$ 864.51
	\$1,000	24	2715-0010-TS-24	\$ 363.79
	\$2,500	24	2715-0025-TS-24	\$ 746.94
	\$3,500	24	2715-0035-TS-24	\$ 932.29

Models	Max Claim	Months	Item #	Price
Rebuilt Compressors	\$1,000	12	2715-0100-TS-00	\$ 318.09
	\$2,500	12	2715-0200-TS-00	\$ 656.92
Scrolls	\$1,000	12	2715-0010-TS-00	\$ 338.89
	\$1,000	12	2715-0010-TS-00	\$ 338.89
Rotary / Screw Compressors	\$2,500	12	2715-0025-TS-00	\$ 691.61
	3,500	12	2715-0035-TS-00	\$ 864.51

## CenTraVac Motor Parts & Labor Warranties

CenTraVac Motors		
2nd - 5th Year Extended Warranty		
Nominal Tons	Item #	Price
<321	2705-9100-05-00	\$ 3,256.10
321-500	2705-9100-05-01	\$ 4,263.08
501-650	2705-9100-05-02	\$ 5,077.80
651-910	2705-9100-05-03	\$ 5,391.79
911-1725	2705-9100-05-04	\$ 6,946.53

CenTraVac Motors			
Compressor Labor Warranty			
Max Claim \$	Months	Item #	Price
\$2,500	12	2715-4001-TS-00	\$ 598.94
\$4,500	12	2715-4000-TS-00	\$ 1,092.74
\$6,500	12	2715-4002-TS-00	\$ 1,893.63

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<b>AirGuard Complete Catalog</b>	<b>29-39, 44</b>
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Aluminum Coil Repair Kits	99
Aluminum Roof Stands	95
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Anchor Kits (Screws)	87
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Anti-Vibration Pads	94
Armaflex	97
Armaflex Glue	97
Armaflex Paint	97
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V-Belts	60-61
Brass Plugs	55
Brazing & Welding Gases	99
Brazing Alloys	98-99
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Copper Fitting Brushes	97
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