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LINE CARD - DIVERSITECH CORPORATION



EQUIPMENT MOUNTING













CONDENSATE MANAGEMENT



CHEMICALS









COMPONENTS & ACCESSORIES

















SUB BRANDS





















VENDOR PARTNERS - LINE CARD

ESTEEMED VENDOR PARTNERS













































































Mini-Split Stands



QUICK-SLING

Mini-Split Stands

Our Quick-Sling® Mini-Split Stands provide a safe, stable platform to mount your unit on. It keeps unit elevated above lawn mowers, weed whackers, pets, snow, and flooding. The elevated height allows for ease of installation, maintenance and service. Now available in stainless steel.

Item ID	Description	UOM	Order Multiple
QSMS1201	Mini-Split Stand Wide - 12"	EA	1
QSMS1801	Mini-Split Stand Wide - 18"	EA	1
QSMS2401	Mini-Split Stand Wide - 24"	EA	1

Mini-Split Stands



Quick-Sling® Flexi Frame Equipment Stands

The galvanized steel Flexi Frame is a strong weather-resistant stand for mounting mini-splits and VRF equipment. The Flexi Frame can be configured with a base and multiple extensions to meet most application requirements.

Item ID	Description	UOM	OM
FF-BF-B	Flexi-Base Frame (47-1/4" Rails)	EA	1
FF-EF-B	Flexi-Extension Frame (47-1/4" Rails)	EA	1
FF-BF-1500-B	Flexi-Base Frame 1500 (59" Rails)	EA	1
FF-EF-1500-B	Flexi-Extension Frame 1500 (59" Rails)	EA	1



GUICK-SLING

Hef-T-Foot™ Mini-Split Installation Kits

The Hef-T-Foot Mini-Split Installation Kits provide a complete solution for ground mounting an outdoor mini-split unit. Each Kit comes with two rubber feet with strut plus the hardware required to secure the outdoor unit to the feet. The Hef-T-Foot[™] with strut comes in two lengths — 23.6" and 39.4". They are manufactured from heavy duty recycled rubber and come complete with .8" x 1.6" galvanized steel strut adhered to the rubber with industrial adhesive.

Item ID	Description	UOM	Order Multiple
FF-600-S-KIT	Mini-Split Installation Kit - 23.6"	EA	1
FF-1000-S-KIT	Mini-Split Installation Kit - 39 4"	FA	1

FF-600-S-KIT

Mounting Blocks

Hef-T-Bracket™ Mini-Split Wall Bracket

Used for supporting condensing units, Hef-T-Brackets feature a cross bar that is attached to a wall, and two L-shaped brackets that are hooked and bolted into place on the cross bar. The condensing unit is mounted onto the L-shaped brackets, and fastened using the bolts and anti-vibration washers provided.

*Not approved for South Florida.

Item ID	Description	UOM	OM
230-B2M	Hef-T-Bracket [™] , Medium, 18 in.	EA	1
230-B2L	Hef-T-Bracket [™] , Large, 21 in.	EA	1
230-B2XL	Hef-T-Bracket [™] , Extra Large, 26 in.	EA	1
230-A2S	Hef-T-Bracket [™] , Small, 16-1/2 in. Painted Aluminum	EA	1

FEATURES:

- Quick and easy installation
- Cross bar that is attached to the wall. and two L-shaped brackets that are hooked and bolted into place on the cross bar
- Fastened using the bolts and anti-vibration washers provided
- Electro-galvanized. powder-coated steel plate material
- Spirit level included
- Patented top hinge ensures unit can be easily leveled on any type of wall surface



230-B2M

Mounting Brackets





Wall Bracket - Siding or Flat Wall

These hurricane rated wall brackets are strong, easy to install and are designed to be mounted into framing studs at 12" or 16" on center. These fit most mini-split models on the market today and provides the required distance between the wall and the condenser for optimal air flow. The QSWB2000 is rated for 300 lbs and the heavy duty QSWB4000 is rated for 500 lbs. Both models are also available in 316 stainless steel.

Item ID	Description	UOM	Order Multiple
OSWB2000	Wall Bracket with Z Bend	EA	1



Wall Bracket - Foundation Mount

This unique, 300lb condenser mounting bracket is designed to install directly to a foundation and still provides 7" clearance between the wall and the unit. The shelf depth is 19" and allows plenty of room for piping and service.

Item ID	Description	UOM	Order Multiple
QSWB3000	Foundation Mounted Wall Bracket. Holds up to 300lbs	EA	1



Wall Bracket - Heavy Duty - Mini-Splits

These hurricane rated wall brackets are strong, easy to install and are designed to be mounted into framing studs at 12" or 16" on center. These fit most mini-split models on the market today and provides the required distance between the wall and the condenser for optimal air flow. The QSWB2000 is rated for 300 lbs and the heavy duty QSWB4000 is rated for 500 lbs. Both models are also available in 316 stainless steel.

Item ID	Description	UOM	Order Multiple
QSWB4000	Wall Bracket with rail. Holds up to 500lbs.	EA	1

QUICK-SLING

Swivel Brackets

Unit Heater Swivel Brackets

The Quick-Sling® line of Unit Heater Swivel Brackets ore uniquely designed to provide fast and easy installation of most all ceiling mounted Unit Heaters. The innovative swivel design allows for 360° rotation for setting the perfect air flow direction prior to hard piping the unit. Multiple ceiling mounting options adopt to various installation applications.

Swivel "U" Mount with "H" or "I" Bracket

Item ID	Description	UOM	OM
QSWI1000	Quick-Swivel "U" Mount with H Bracket. Holds up to 200 lbs.	EA	1
QSWI2000	Quick-Swivel "U" Mount with I Bracket. Holds up to 200 lbs.	EA	1



Swivel Flush Mount with "H" Bracket

Item ID	Description	UOM	OM
QSWI3000	Quick-Swivel Flush Mount with H Bracket. Holds up to 200 lbs.	EA	1
QSWI3001	Swivel for Concealed Ducted AH Hangers & BC Cont. 36" Spreader Bar	EA	1
QSWI3002	Swivel for Concealed Ducted AH Hangers & BC Cont. 17" Spreader Bar	EA	1
QSW14000	Hef-T-Bracket [™] , Small, 16-1/2 in. Painted Aluminum	EA	1



Flush Mount - Heavy Duty

Item ID	Description	UOM	OM
QSW15000	Quick-Swivel Heavy Duty Holds up to 400 lbs.	EA	1
QSWI5001	Quick Swivel Heavy Duty Flush Mount with I Bracket, 34 in.	EA	1
QSW15002	Quick Swivel Heavy Duty Flush Mount with I Bracket, 52 in.	EA	1
QSWI5003	Quick Swivel Heavy Duty Flush Mount with Large H Bracket	EA	1



Branch Circuit Controller Swivel Flush Mount with 2 "I" Brackets

Item ID	Description	UOM	OM
QSW16000	Quick Swivel Dual Flush Fount	EA	1



INFRARED REFRIGERANT LEAK DETECTOR





Extra Confidence

Built to last with a 10-year sensor life.



Added Convenience

Audible and visual notification for leak detection.



Easy to Read

The TFT LCD screen provides a clear visual confirmation of the leak location.



Added Versatility

Works on all halogenated refrigerants.



Technical Specifications

Sensor Type	Infrared Spectrum Absorbtion
Sensor life	10 years
Maximum Sensitivity	4 grams/year
Response Time	3 Seconds
Warm-Up Time	30 Seconds
Battery	Built-in rechargeable Lithium Battery 3.7V, 3,000mAh
Certifications	SAE J1627, SAE J2791, SAE J2913, EN14624: 2012
Refrigerants Detected	It will detect all halogenated refrigerants. This includes, but is not limited to: CFC: R12, R11, R500, R503 HCFC: R22, R123, R124, R502 HFC: R134A, R404A, R410A, R407C CH: R600A
Dimensions	7.9" x 3.3" x 1.5"
Weight	14.6 oz (415g)

HEATED DIODE REFRIGERANT LEAK DETECTOR





Extra Confidence

Flexible probe allows access to the hard-to-reach areas.



Added Convenience

Audible and visual notification.



Easy to Read

LED screen for easy to read display.



Added Versatility

HEATING SEASON - 2022

Works on all halogenated refrigerants.

Technical Specifications

Sensor Type	Semi-Conductive Sensor
Sensor life	5 years
Maximum Sensitivity	4 grams/year
Response Time	3 Seconds
Warm-Up Time	30 Seconds
Certifications	SAE J1627, SAE J2791, SAE J2913, EN14624: 2012
Refrigerants Detected	It will detect all halogenated refrigerants. This includes, but is not limited to: CFC: R12, R11, R500, R503 HCFC: R22, R123, R124, R502 HFC: R134A, R404A, R410A, R407C CH: R600A
Dimensions	10.25" x 2.25" x 2.25"
Weight	14 oz (397g)

WIRELESS REFRIGERANT SCALE







Accurate Readings Provides readings in 0.2 oz increments.



Easy to Read Backlit LED display is easy to read.



Long Range Wireless remote keeps working up to 130 ft away.



Added Versatility Scale can be used in or out of the protective case.

Technical Specifications

Units	kg or lbs or oz	
Resolution	0.2 oz (5g)	
Wireless Range	130 ft (40 m)	
Operating Temperature:	-10° to +40°C (14° to +140°F)	
Capacity	220 lbs (100 kg)	
Scale Batteries	AA (x5)	
Remote Batteries	AAA (x5)	
Battery Life Duration:	40 Hours	
Dimensions	18" x 14-3/4" x 3-1/2"	
Net Weight	10.6 lbs.	

REFRIGERANT SCALE





Accurate Readings Provides readings in 0.2 oz increments.



Easy to Read Backlit LED display is easy to read.



Secure Rubberized surface provides tank stability and protects scale.



Added Versatility Scale can be used in or out of the protective case.

Technical Specifications

0.2 oz (5g)		
220 lbs (100 kg)		
AA (x5)		
AAA (x5)		
40 Hours		
18" x 14-3/4" x 3-1/2"		
10.6 lbs.		

COMPACT SWAGE TOOL KIT







Picture-perfect Swaging

Simply select the correct head, place it on the tool and make a quality swage.



Less Effort, More Control

The power to swage 1-5/8" tubing and the control to swage 5/16" without splitting the tube.



Technical Specifications

Tube Materials	Soft - Copper, Steel, Aluminum, Brass
	Standard Kit: 3/8", 1/2", 5/8", 3/4", 7/8"
Heads Included	Deluxe Kit (1964041): 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/8", 1-1/8", 1-3/8", 1-5/8"
Optional Heads	2-1/8" 1964043
Deburring Tool	Pocket Type Included
Carrying Case	Included
Product Dimensions	9" x 1.75" x 5"
Kit Dimensions	12.25" x 3.25" x 16.5"
Product Weight	2.2 lbs
Froduct Weight	ביב וחפ



Small Space Capable

A compact design ┗ ☐ ┛ allows it to be used even in cramped spaces. 5/16" without splitting the tube.



One-handed Operation

The lever mechanism and release button allow for one-handed swaging without the fatigue.

ORBITAL FLARE KIT





Picture-perfect **Swaging**

Simply select the correct head, place it on the tool and make a quality swage.



One-handed Operation

The lever mechanism and release button allow for one-handed swaging without the fatigue.



Technical Specifications

Tube Materials Soft - Copper, Steel, Aluminum, Brass Flaring Type Tube Sizes (O.D.) 3/16", 1/4", 5/16", 3/8", 1/2", 5/8", 3/4" Tube Cutter 1/8" - 1-3/8" Capacity **Deburring Tool** Pocket Type Included Carrying Case Included Product 8.5" x 4.6" x 5.3" Dimensions **Kit Dimensions** 13" x 9" x 2.25" **Product Weight** 3.75 lbs Kit Weight 5.8 lbs



Accurate Cutting

A unique, four-roller tracking system keeps the tube from threading.



Professional Deburring Conveniently

deburr tubes with a replaceable machinist's reamer.

COMPACT BENDER KITS





Technical Specifications

	5
Mandrel Sizes 1/4", 5/16", 3/8", 1/2", 5/8", 3/4", 7/	3"
Bending Mechanism Ratcheting	
Tube Release Type Quick Release Trigger	
Reverse Bend Attachment Deluxe Model only (1926598)	
Carrying Case Included	
Dimensions 16-3/8" x 12-1/4" x 3-1/4"	
Weight 8.8 lbs	



Simple Setup

Universal crossbar and color-coded mandrels make identifying and changing sizes quick and easy.



One-handed Operation

A ratcheting mechanism and innovative release lever allow for bending with one hand.



Small Space Capable

A compact design allows it to fit where others can't.

REFRIGERANT RECOVERY MACHINE



1950536

Technical Specifications

Motor	1 HP, Brushless DC, 115v, 60Hz	
Motor Speed	3,000 RPM	
High Pressure Shut Off	560 PSI (3.86 MPa)	
	R-12, R-134a, R-401C, R-406C, R-500	
Compatible Refrigerants	R-401A, R-412A, R-22, R-407C, R-509, R-409A, R-411A, R-411B, R-402B, R-401B, R-407B, R-502, R-408A	
	R-407A, R-402A, R-407B, R-404A, R-507, R-410A	
Compliance	CSA , FCC , AHRI740-1998 UL Verified	
Dimensions	14.7" x 14.2" x 10.6"	
Net Weight	27 lbs (12.25 kg)	



Quick, Easy Access Conveniently located hose ports make connecting hoses easier and reduces strain.



Accurate, Easy to Read

Digital LCD Screen provides accurate and easy to read pressure readings.



Superior Security

High- and low-pressure automatic shutoff protects machine and helps ensure safety.

VALVE CORE REMOVAL TOOL





Technical Specifications

Connection Sizes	1/4" or 5/16"	
Maximum Allowable Working Pressure	800 PSI	
Burst Pressure	4,000 PSI	
Operating Temperature	-20° to +180°F	
Valve Type	Double O-Ring Ball Valve	
Vacuum Level Tested	20 Microns	
Dimensions	5.75" x 2.5" x 7.875"	
Weight	8 oz	



Jobsite Storage

Built-in rare-earth magnet for convenient plunger storage, minimizing lost parts on the job.



Superior Versatility

Vacuum tested to 20 microns and tested to 800 PSI working pressure.



Reliable Core Gripper

Securely and confidently remove valve cores for unrestricted flow.



Vacuum Gauge Port

1/4" side flare to easily connect a vacuum gauge.

DIGITAL ADJUSTABLE TORQUE WRENCH



1963826



Lighten Your Load

Adjustable jaw eliminates the need to carry around extra heads.



Precise Readings

Digital adjustments help ensure torque measurement accuracy.



Easy To Use

Nine programmable memory settings allow for quick access to the most common torque levels.



Extra Confidence

LED lights and buzzer indicate that desired torque has been reached.

Technical Specifications

	Jaw Size (Inches)	1/4" to 11/16"
	Jaw Size (mm)	5mm to 27mm
	Accuracy	+/- 3%
	Measurement increments	0.1 (N-m, Ft-lb)
	Torque Range	5 - 95 (Ft-lbs) 60 - 1,195 (In-lbs) 69 - 1,378 (kg-cm) 6.8 - 135 (N-m)
	Operation Modes	Track, Peak
	Dimensions	17" x 2-3/8"
	Weight	2 lbs

VACUUM PUMPS





Technical Specifications

Part Number	1947970	1948121	1948122	1950532
CFM	3	5	9	12
Motor	1/3 HP	1/2 HP	1 HP	1HP
Power Requirements	4.5A, 120v 60hz	7.5A, 120v 60hz	5.5A, 120v 60hz	7.6A, 120v 60hz
Motor Speed	1720 RPM	3440 RPM	3440 RPM	2500 RPM
Intake Fitting	1/4", 3/8"	1/4", 3/8", 1/2"	1/4", 3/8", 1/2"	1/4", 3/8", 1/2"
Ultimate Vacuum	25 Microns	25 Microns	25 Microns	25 Microns
Oil Capacity	11 oz.	11 oz.	15 oz.	15 oz.
Compliance	CSA	CSA	CSA	CSA
Dimensions	13.6" x 5.5" x 10.7"	13.6" x 5.5" x 10.7"	15.9" x 5.9" x 11.2"	15.6" x 5.7" x 10.1"
Net Weight	23 lbs.	24 lbs.	36 lbs.	26 lbs.



Hands-Free Carry

Two durable hoist points make transporting the vacuum pump easier. Compatible with the hilmor HVAC/R Carrying Strap.



Drains Oil Quickly

A sloped and channeled housing helps oil drain fast.



Easy To Check Oil

Quickly identify oil level and detect oil contamination through a large sight glass.



Quick, Easy Access

Easy access to a large oil fill port.

WIRELESS VACUUM GAUGE









1950217



Easy to Read LED backlit screen for easy to read display.



Long Battery Life 80 hour battery life for Remote Sensor and Handheld.



Added **Convenience** Programmable audible micron alarm with high and low settings.



Added Versatility Includes foldable hook and magnet to easily attach to any unit.

Technical Specifications

Refresh Rate		0.5 Seconds
Wireless Range		33 Feet (10 meters) Unobstructed
Accuracy		+/- 5% of Reading +/- 10 microns
Resolution		5 to 2,000 microns - 1 micron 2,001 to 5,000 - 100 microns 5,001 to 10,000 - 250 microns 10,001 to ATM - 1,000 microns
Units		micron, mTorr, Torr, mmhg, mBar, kPa and Pa
Operating Temperature		-4°F to 122°F (-20°C to 50°C)
Operating Humidity		Up to 75% Relative Humidity
Battery Life	Handheld Display	80 Hours Without Backlight
Battery Line	Remote Sensor	40 Hours
Dimensions	Handheld Display	2.95" x 4.62" x .90"
	Remote Sensor	2.20" x 5.7" x 1.5"

COMPACT VACUUM GAUGE

CVG1200



Technical Specifications

Accuracy	+/- 10% of Reading +/- 10 microns
	1 to 2,000 microns - 1 micron
	2,001 to 20,000 - 100 microns
Resolution	20,001 to 100,000 - 1000 microns
	100,001 to 300,000 - 10,000 microns
Operating Temperature	10°F to 122°F (-12°C to 50°C)
Operating Humidity	Up to 75% Relative Humidity
Refresh Rate	0.5 Seconds
Battery life	50 Hours (Without Backlight)
Protective Case	Included



Easy to Read Backlit LCD makes reading in the dark easy.



Convenient Storage Protective case keeps the gauge safe and quick to grab.



Added Convenience Programmable audible micron alarm, with high & low settings

REVERSIBLE MAGNETIC NUT DRIVERS





Technical Specifications

Socket Sizes	1/4" x 5/16"	
Socket Forgings	6150 Steel	
Socket Hardness	> HRC 48	
Impact Rated	Yes	

1937881, 1937881, 1937883



Reduced Stripping

High performance socket design drives the fastener from the flats, not the corners, minimizing slippage.



Tapered Design

Tapered socket design for improved access in tight spaces.

LINESET CLEANER



Nozzle Sizes	3/8", 1/2", 5/8", 3/4", 7/8"
Pressure Inlet	1/4" SAE Male
Max PSI	70





HLP038, HLP012, HLP058, HLP034, HLP078



Premium Care

The rinseable / reusable foam cleaning pigs are specifically formulated and manufactured to flow through normal lineset configurations and most deformations.



Picture Perfect Cleaning

Simply connect the correct nozzle, chamber the corresponding pig size, connect to a regulated compressed Nitrogen source, and pull the trigger for a perfectly clean lineset.



Twice the Versatility

One tool that has the ability to effectively wipe contaminates and remaining oil from linesets ranging from 3/8" to 7/8".

Foam Pigs

POCKET BRAKE





Product Dimensions

Width	2.90"	
Height	2.85"	
Weight	1.53"	



Flexibility & Speed Save time by performing onsite sheet metal fabrication.



Jobsite Fabrication

Ambidextrous design with twin metal scoring wheels provides a stable and accurate sheet metal scoring tool.



Ergonomic Design

Ergonomic design permits ambidextrous use.

MULTI-FUNCTION PLIERS



Dimensions & Specification

Depth	10.1"
Width	3.05"
Height	1"
Screw Sizes (Shearing)	6-32, 8-32



Comfortable Grip

Over-molded handles reduce hand fatigue and won't slip or twist.



Strong Hold

Forged alloy steel with hot rivet joint provides maximum tool strength and smooth action.



Stays Sharp

Wire stripper strips 8 AWG to 18 AWG (solid wire), 10 AWG to 20 AWG (stranded wire).



THESE TOOLS ARE BUILT FOR HVAC/R. JUST LIKE YOU.

hilmor offers tools to help you handle superheat and subcool with no sweat. Tools to help you flare and swage tubes without needing a third arm. All with the goal of helping you get in, get out and get on to the next job. Not to mention, get your foot in the door.



THE FASTEST & EASIEST WAY TO CLEAR A CONDENSATE LINE

SWOOSH® Drain Gun® Double Shot™



The SWOOSH® Drain Gun[™] Double Shot[™] allows you to clear drain lines BETTER than before. The SWOOSH® Drain Gun[™] Double Shot[™] can use a single 20g cartridge or unleash the full power of the SG-2 and load two 20g cartridges for 2.5X more SWOOSH®!

Item ID	Description	Primary UO	Order Multiple
SG-2KIT	SG-2 with two 20G cartridges and case	EA	1

Load two 20g cartridges for 2.5X more power!

Drain Kat™ Mini Kit



This kit is an over the shoulder refillable, nitrogen or CO2 mini drain cleaning kit. Featuring a small cylinder that holds 9 cubic feet of nitrogen or 2-1/2 pounds of CO2. The cylinder includes an integral mounted regulator, 250 PSI adjustable regulator with internal bleed-down safety. Dual inlet and outlet gauges and On/Off valve. Get exactly the amount of pressure you need with a quick adjustment on the regulator.

Item ID	Description	Primary UO	Order Multiple
MBK-6	Drain Kat™ mini kit for nitrogen or CO2 and accessory fitting kit	EA	2

THE FASTEST & EASIEST WAY TO CLEAR A CONDENSATE LINE



SWOOSH® Drain Gun®

The SWOOSH® Drain Gun® Big Shot™ is designed to blow out drain lines instantly. New larger 20 gram SWOOSH® CO2 cartridges deliver 800 PSI of oil free air to clear the line, with 25% more capacity. Each unit comes equipped with a tapered fitting to work on 3/8" -3/4" drain openings. Flexible hose assembly maneuvers through cabinets, coils and hard to reach drains. Reduces labor costs and time on service calls.

Item ID	Description	Primary UO	Order Multiple
SG-1	20G SWOOSH Drain Gun Big Shot	EA	6
SGC-12	20G SWOOSH Drain Gun Cartridge, Package of 12	PK	6





Drain Gun Portable Drain Cleaning Tool

Clears condensate drains with a SWOOSH®! A lightweight (3 oz.) portable tool designed to blow out drain lines instantly. SWOOSH® CO² cartridges deliver 800 PSI of oil free air to clear the line. Each unit comes equipped with a tapered fitting to work on 3/8" – 3/4" drain openings. Flexible hose assembly maneuvers through cabinets, coils and hard to reach drains. Cartridges are environmentally safe and recyclable. No need for air or nitrogen tanks. Reduces labor costs and time on service calls.

Item ID	Description	Primary UO	Order Multiple
GG-1	Drain Gun	EA	6
GGC-12	Drain Gun Cartridge, Package of 12	PK	6





THE HIGH-TEMPERATURE, LEAKAGE-FREE FLARING AND SWAGING METHOD, DESIGNED FROM THE GROUND UP FOR HVAC SYSTEMS.

THE FLARING AND THE SWAGING SPIN TOOLS ARE DESIGNED FOR THE MOST COMMON TUBING DIAMETERS IN HVAC.

THE HIGH-TEMPERATURE METHOD PRESERVES THE COPPER'S OR ALUMINUM'S MALLEABILITY WHILE PERFORMING THE FLARE, PREVENTING CRACKS AND LEAKS.

SPIN IS THE NEW EVOLUTION FOR HVAC FLARING TOOLS.

TO TOP THAT, YOU CAN MAKE FLARES WITH THE SPIN FLARING AND SWAGING TOOLS IN JUST 5 SECONDS!

FLARING



F4000 SPIN FLARING SET

1/4" - 3/8" - 1/2" - 5/8"

BASIC SET: 4 pieces is all that you will need if your daily work mainly deals with mini splits lines. This economic set gives you exactly what you want: from 1/4" up to 5/8".

F5000 SPIN FLARING SET

1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8"

STANDARD SET: This 5-piece SPIN FLARING TOOLS set will easily cover your base in most cases, and is meant for making flare on 1/4" up to 3/4" copper tubes.

F6000 SPIN FLARING SET

1/4" - 3/8" - 1/2" - 5/8" - 3/4"

HEATING SEASON - 2022

SUPER SET: 6-piece set with the 4 most common HVAC tubing diameters, plus 2 "medium-duty" pieces for larger tubes found in the field.

SWAGING

\$4000 SPIN SWAGING SET

1/4" - 3/8" - 1/2" - 5/8"

BASIC SET: 4 pieces is all that you will need if your daily work mainly deals with mini splits lines. This economic set gives you exactly what you want: from 1/4" up to 5/8".

\$5000 SPIN SWAGING SET

1/4" - 3/8" - 1/2" - 5/8" - 3/4"

STANDARD SET: Recommended for soft and hard copper, and with a range encompassing 1/4" to 3/4" for expansions, this 5-piece SPIN SWAGING TOOLS set has the main HVAC tube diameters covered up.



1/4" - 3/8" - 1/2" - 5/8" - 3/4" - 7/8"

COMPLETE SET: 6-piece set with the most common HVAC tubing diameters: 4 basic diameters + 2 "medium-duty" pieces for larger tubes found in the field.



SWAGING for Plumbing

P3000 SPIN SWAGING SET

1/2" - 3/4" - 1"

PLUMBING SET: 3 heavy-duty pieces specially designed for plumbing applications. The pieces are reinforced to allow easy and perfect swages even in 1" copper pipes. Effortless swages ready in less than a minute.







HVAC Maintenance & Coil Cleaning Tools.

SpeedClean's award-winning preventative maintenance tools deliver the quick and efficient results you are looking for – so you can get the job done fast.

Mini-Split Bib® Kit 360



Clean In-Place Solution

The Mini-Split Bib Kit 360 is the most complete way to clean ductless mini-split coils, blower wheels and more. This kit allows you to safely and quickly clean virtually any mini-split system the correct way using pressurized water on coils, blower wheels, and more. The patented technology keeps water away from walls, ceilings, and other surroundings and directs it into the 5 gallon bucket for disposal, so it's clean and safe all around.

- Protects the walls, ceilings, and surroundings from water and overspray
- Quick set up and easy to move from job to job
- Reusable bib system provides a lower cost per use

Included Equipment

Adhesive wrap, brackets, support rib, deflector plates, one piece 360 bib with 8 ft drain and a 5 gallon bucket.

www.speedclean.com

SPEEDCLEAN® - TOOLS

SpeedyBright Biodegradable Descaler/Limescale Remover



Scientifically formulated to dissolve all types of limescale, rust and calcium carbonate deposits from water passages and heating elements. SpeedyBright improves operating efficiency in tankless water heaters, gas/electric water heaters and other water heating/heat exchange systems. Extend the usable life of cleaned equipment by quickly and safely removing energy robbing contaminants. Phosphoric acid based cleaner classified by UL to NFS/ANSI Standard 60.

SPDYBRT-CS: 1/2 gallon case of 2

SPDYBRT-05: 5 gallon pail

- Removes limescale effectively
- Approved for potable water use
- **Works great with BucketDescaler®**

Mini-Split Cassette Bib® Kit

Cleaning ductless ceiling cassettes is a daunting task, but we've just made it a whole lot easier. Using pressurized water and coil cleaner is the key to a good coil cleaning. Our ductless cassette bib kit installs in seconds and quickly creates a safe funnel where all your water and cleaner are safely deposited into a bucket. Super easy to use and really effective.

- Quick to set up and easy to move from job-to-job
- Reusable
- Includes 10' drain line
- **Keeps walls and floors safe from water and overspray**



Mini-Split Bib® Kit

The Mini-Split Bib® Kit is the fastest way to clean ductless mini-split coils, blower wheels and more. If you are a contractor, you simply have to have one, or two, in your truck. This kit allows you to safely and quickly clean virtually any mini-split system the correct way using pressurized water on coils, blower wheels and more. The patented technology keeps water away from walls and other surroundings and directs it into the 5 gallon bucket for disposal, so it's clean and safe all around.

- Quick to set up and easy to move from job-to-job
- Reusable lower cost per use
- Includes 8" drain line for high mounts
- **Keeps walls and floors safe from water and over spray**

www.speedclean.com



TOOLS - SPEEDCLEAN®

CoilJet® CJ-125 HVAC Coil Cleaner System





No Water. No Power. No Problem.

CoilJet® is a portable HVAC coil cleaning system ideal for cleaning evaporator coils and condenser coils in locations where water and power may be inaccessible, such as rooftops and attics. CJ-125 is designed for portability by including separate water and chemical tanks and a long life rechargeable battery. Expertly clean condenser and evaporator coils no matter where the location may be.

- Clean HVAC condenser and evaporator coils where they are
- Applies coil cleaner and then flush with fresh water
- Carries all the water and coil cleaner you need to clean up to five,
 5-ton units using 125 PSI pressure

FlowJet™ Coil Cleaner System



High flow coil cleaning with chemical Injection makes quick work of cleaning debris and grime from microchannel, thick condenser and evaporator coils. Powerful 400 PSI at 2.2 GPM washes even the dirtiest coils with a continuous spray of water and cleaning chemical—without damaging sensitive fins.

- Optional 90° spray wand forces dirt and debris back in the direction it entered
- 12' hose with additional lengths available
- Water hose connection for continuous cleaning
- Cleans thick HVAC coils fast

www.speedclean.com



HEATING SEASON - 2022

SPEEDCLEAN® - TOOLS

CoilShot® Condenser Cleaner Tool

Get the job done in one shot!

The CoilShot® condenser cleaner tool and tablet system make cleaning condenser coils faster and easier than ever before. The unit connects directly to a garden hose and uses a single pre-measured tablet to apply foaming coil cleaner directly to coils. For added cleaning performance, use it with the optional 3 ft. wand. The innovative technology quickly cleans coils of dirt, grime, and even grease! Eliminate the need for lugging around and measuring heavy, bulky liquid coil cleaners.





SC-CS-100

SC-CS-WAND

- Quickly and easily clean single-pass condenser coils in minutes
- Replaces bulky liquid coil cleaners with small tablets
- Plant friendly and grease-fighting formulas available
- Saves on the hassle and waste of liquid coil cleaner
- 1-2 tablets per job are all you need



SC-CS-TABS

SpeedyFoam Condenser Coil Cleaner

The smarter, safer & biodegradable alkaline foaming micro bubble coil cleaner

SpeedyFoam is safe for coated and uncoated coils. It is an acid-free, alkaline, non-caustic, degreasing foaming formula. (Say that ten times fast, I dare you). It's safer for employees to use, more effective on grease and works great on all metals and has a clean, fresh scent. Plus it's 4x concentrated, so you get more bang for your buck. It's designed for use with CoilJet and Condenser Needle but can be used with pump sprayers too.

- Foaming micro bubble coil cleaner, non-acid, non-fuming and water soluble
- Removes grime, oil, grease and rust from condenser and evaporator coils, mechanical equipment and air filters
- Non-caustic and safe for all metals, including aluminum
- Safer for coated and uncoated coils

SC-FCC-1: Gallon case of 4

SC-FCC-5: 5 gallon pail

www.speedclean.com



Helping You Select the Right Condensate Management System

We make condensate management easy with useful resources at your fingertips. We offer quality products, and helpful resources to answer your questions. Understanding how to optimally install a condensate management system with proper checks and balances is made even easier with descriptive infographics.

You will find that our website and Technical Support Team are valuable resources.

Water damage is a key homeowner worry. Why chance it?





YOUR COMPLETE SYSTEM FOR CONDENSATE MANAGEMENT

asurityhvacr.com









Techs Helping Techs

We take our responsibility to answer your questions seriously, which is why we have trained HVAC/R technicians providing you support. Techs who have dealt with the real-life situations that you deal with every day are here to help you every step of the way whether it be helping select the right product, answering installation questions, or troubleshooting.

For Technical Support: (800) 995-2222





Condensate Pump Ultra

Standard Applications

FEATURES:

- Translucent Tank for Easy & Fast Inspection
- Removable Check Valve for Easy Cleaning
- LED Indicators Confirm Pump Status
- Built-in Safety Overflow Switch
- Handles Condensate up to 160° F

Condensate Pumps



Ultra

Asurity® ULTRACP-22 series pumps beat the industry standard of 20' lift height by 2 feet and come with innovative features such as: translucent tank for easy & fast inspection, vibration dampening feet & motor mounts, metal mounting tabs, four inlet holes (and 3 poly covers for the unused), LED indicators, float switch and duckbill-style check valve, and detailed installation instructions. Two 1/4in. quick connect terminals provide the installer fast and easy connections to the built-in overflow switch to shutdown the system and prevent flooding, an important safety feature. Asurity® - Your Complete System for Condensate Management.

ULTRACP-22	120 VAC 60 Hz	22' LIFT
ULTRACP-22-230	230 VAC 60 Hz	22' LIFT



Condensate Pump Ultra

Standard Applications

FEATURES:

- Translucent Tank for Easy & Fast Inspection
- Removable Check Valve for Easy Cleaning
- LED Indicators Confirm Pump Status
- Built-in Safety Overflow Switch
- Handles Condensate up to 160° F

120 VAC 60 Hz **ULTRACP-22T 22' LIFT** ULTRACP-22T-230 **230** VAC 60 Hz **22' LIFT**



Includes 20' Clear Vinyl 3/8" Tubing

Condensate Pumps





Standard



Condensate Pump

Standard Applications

FEATURES:

- LED Indicators Confirm Pump Status
- Built-in Safety Overflow Switch
- Handles Condensate up to 160° F
- Sturdy Metal Hang Tabs

Pumps are often the heart of a complete condensate management system. With simple installation, high durability, and long-term reliability, they effortlessly pump water wherever it needs to go. Every pump is designed to help you get the job done right, regardless of the application.

CP-22	120 VAC 60 Hz	22' LIFT
CP-22-230	230 VAC 60 Hz	22' LIFT
CP-22T	120 VAC 60 Hz	22' LIFT
CP-22-230T	230 VAC 60 Hz	22 ' LIFT



20' Clear Vinyl 3/8" Tubing only included with CP-22T CP-22-230T



Condensate Pump Specialty

Acidic & High Temperature Applications

Condensate Pumps



Specialty

FEATURES:

- Handles Acidic and Non-Acidic Condensate up to 190° F
- Stationary PVC Pipe Inlets for Easy Tank Access
- LED Indicators Confirm Pump Status
- Built-In Safety Overflow Switch
- Remove Check Valve Without Tools for Easy Cleaning

FP-22	120 VAC 60 Hz	22' LIFT
FP-22-230	230 VAC 60 Hz	22' LIFT



Condensate Pump Specialty

ClearVue™ Pump



Condensate Pumps 3 YEAR **Specialty**

FEATURES:

- Translucent Tank for Easy & Fast Inspection
- Variable Speed for Quieter Operation
- Senses Clog & Engages Pulse Mode for Cleaning
- Built-In Safety Overflow Switch with Alarm & Run Contacts
- LED Indicators & Audible Alarm Confirm Pump Status
- Floatless Sensor Technology

IQP-120	120 VAC 60 Hz	22' LIFT
IQP-120T	120 VAC 60 Hz	22' LIFT

Low Profile



Tubing only included with CP-22LPT

Condensate Pump Specialty

Standard Applications

FEATURES:

- Reduced Height for Restricted Spaces
- LED Indicators Confirm Pump Status
- Built-in Safety Overflow Switch
- Handles Condensate up to 160° F
- Sturdy Metal Hang Tabs

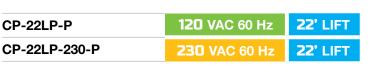
CP-22LP	120 VAC 60 Hz	22' LIFT
CP-22LPT	120 VAC 60 Hz	22' LIFT
CP-22LP-230	230 VAC 60 Hz	22' LIFT

Condensate Pump Specialty

Standard Applications



- Reduced Height for Restricted Spaces
- LED Indicators Confirm Pump Status
- Built-in Safety Overflow Switch
- Handles Condensate up to 160° F
- Sturdy Metal Hang Tabs
- Power Fitting Accepting 1/2" Flexible Conduit





Plenum Rated

IDEAL FOR

COMMERCIAL

USE

Condensate Pumps





Pro



Condensate Pump Pro

Standard Applications

FEATURES:

- Handles Condensate up to 160° F
- Sturdy Metal Hang Tabs

PROCP-16	120 VAC 60 Hz	16 ' LIFT
PROCP-16-230	230 VAC 60 Hz	16 ' LIFT

Condensate Pump Pro

Standard Applications

FEATURES:

- Handles Condensate up to 160° F
- Built-in Safety Overflow Switch
- Sturdy Metal Hang Tabs

PROCP-22S	120 VAC 60 Hz	22' LIFT
PROCP-22S-230	230 VAC 60 Hz	22' LIFT
PROCP-22ST	120 VAC 60 Hz	22' LIFT
PROCP-22ST-230	230 VAC 60 Hz	22' LIFT



PROCP-22ST-230



Condensate Pump Pro

Acidic, Max Temperature & High Lift/Flow Applications

FEATURES:

- Handles Acidic and Non-Acidic Condensate up to 212° F
- Large 1-Gallon Tank Instantly Reduces Temperature of Boiler & Steam Humidifier Discharge
- Flow Rate up to 190 Gallons Per Hour
- Quarter-Turn Removable Check Valve
- Built-In Safety Overflow Switch

PROCP-46	120 VAC 60 Hz	49 ' LIFT
PROCP-46-230	230 VAC 60 Hz	49 ' LIFT





Condensate Pumps



Ductless

Compact and quiet pumps specifically designed for ductless applications.



Condensate Pump Ductless

Standard Applications

FEATURES:

- Variable Speed for Silent Operation (19.0 Decibels)
- Suction Lift 6.5'
- For Equipment up to 120K BTU/h
- Built-in Safety Overflow Switch with Alarm & Run Contacts
- LED Indicators Confirm Pump Status
- Includes Installation Accessories
- Floatless Sensor Technology

120 - 240 VAC 60 Hz 35' LIFT CVMINI



QuietMini-M

Standard Applications

FEATURES:

- Undermount Pump for Ductless System
- Ultra Quiet (21dBA)
- Removable Reservoir for Easy Maintenance
- Built-in Safety Overflow Switch
- Max Unit Output 54,000 BTU/h, 16kW

26' LIFT QUIETMINI-M 115 - 230 VAC 60 Hz



Condensate Pump Ductless

Standard Applications

FEATURES:

- Quiet Operation (20.2 Decibels)
- Suction Lift 6.5'
- For Equipment up to 36K BTU/h
- Built-in Safety Overflow Switch with Alarm & Run Contacts
- For Wall Mounts & Ceiling Cassettes
- Includes Installation Accessories

CP-M115	115 VAC 60 Hz	24' LIFT
CP-M230	230 VAC 60 Hz	24' LIFT

Drain Pans











Condensate Pump Drain Pan

- Provides Redundant Protection from Water Overflows
- Fits Condensate Pump and CS-3 Switch
- No Seams, No Rust, No Leakage

10.5" x 15.5" x 2.5"

Seamless Metal Drain Pan

- Single-Piece Design
- Rolled Edge
- 26 Gauge
- Fittings Included

	OUTLET	BOTTOM DIMS.
6-M2460L	Long Side	24" x 60"
6-M2656L	Long Side	26" x 56"
6-M3066L	Long Side	30" x 66"
6-M3070L	Long Side	30" x 70"
6-M3172L	Long Side	31" x 72"
6-M3265L	Long Side	32" x 65"
6-M3636L	Long Side	36" x 36"
6-M3274L	Long Side	32" x 74"
6-M3160L	Long Side	31" x 60"
	OUTLET	BOTTOM DIMS.
6-M2748	Long & Short	27" x 48"
6-M2763	Long & Short	27" x 63"
6-M3030	Long & Short	30" x 30"
6-M3050	Long & Short	30" x 50"
6-M3060	Long & Short	30" x 60"
6-M3263	Long & Short	32" x 63"

Specialty Plastic Drain Pans

- UV-stabilized and Reinforced Polypropylene
- Powder-coated Steel
- Comes with Mounting Hardware and Drain Pan Outlet

	Mount	BOTTOM DIMS.
230-DPPL	Wall-mount	16.75" x 38"
230-DPPM	Hanging	16.75" x 32.25"



Drain Pans

Plastic Drain Pan

- Rolled Edges, Ribbed Bottom, Reinforced Corners
- PVC Fittings Included
- No Seams, No Rust, No Leakage

Complies with Southern Building Code

6-1838L	6-3050L
6-1838S	6-3060L
6-2424L	6-3060S
6-2626L	6-3263L
6-2739L	6-3263L-F
6-2748L	6-3636L
6-2763L	6-3660L
6-3030L	6-3660S



18" x 38" - 36" x 60" Long Side options Short Side options

High Rise Pan™

- Position AV Pads Where You Want Them
- Full 5" Rise from Bottom of Pan
- Heavy Reinforcement Throughout
- Water Flows Towards Sides
- Installation Kit Provided (Condensate Safety Overflow Switch, Anti-Vibration Pads, Fitting)

Meets Requirements for Florida Building Code (307.23 Auxiliary and Secondary Drain Systems)

- 6-HK2748
- 6-HK2748-1
- 6-HK2766
- 6-HK2766-1
- 6-HK3050
- 6-HK3050-1
- 6-HK3060
- 6-HK3060-1



27" x 48", 27" x 66", 30" x 50", 30" x 60" Long Side

HEAVY DUTY High Rise Pan™

- Full 4.25" Rise from Bottom of Pan
- Heavy Reinforcement Throughout
- Suitable for Hanging Applications
- Water Flows Towards Sides
- Installation Kit Provided (Condensate Safety Overflow Switch, Anti-Vibration Pads, Fitting)
- 6-HK3050HD
- 6-HK3060HD
- 6-HK3070HD



30" x 50", 30" x 60", 30" x 70" Long Side

Furnace Pan

- Heavy Duty Construction
- Installation Kit Provided (Condensate Safety Overflow Switch, Heat Pump Risers, Fitting)

6-HK3364FUR 6-HK3378FUR

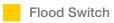


33" x 64", 33" x 78" Long Side

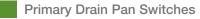
Switches















Wet Switch® Flood Detector and Dual Voltage Flood Detector

FEATURES:

- Turns Off with as Few as 1-2 Drops of Water Detection
- LED Indicators
- Connect Multiple Switches to Expand Protection Area
- Flexible Placement Options

WS-2DV SPECIFIC FEATURES:

- 12 Volt: Integrates into Building Automation Systems and Transmits Alarm Signal with as few as
 1-2 Drops of Water Detection
- 24 Volt: Works with All HVAC Systems

WS-1 Plenum Rated WS-2DV Plenum Rated



Condensate Safety Overflow Switch

FEATURES:

- LED Illuminates When Condensate Line is Blocked
- Built-In Protection Against Power Surges Provides Increased Reliability
- Three Installation Configurations for Increased Flexibility
- For Standard & Plenum Rated Installations in Primary or Auxiliary Lines

CS-1 Plenum Rated CS-1-BULK50 Plenum Rated

For large installs, available in a Bulk Pack of 50

Condensate Safety Overflow Switch

FEATURES:

- LED Illuminates When Condensate Line is Blocked
- Built-In Protection Against Power Surges Provides Increased Reliability
- For Standard & Plenum Rated Installations in Auxiliary Lines

CS-2 Plenum Rated

CS-2-BULK50 Plenum Rated

For large installs, available in a Bulk Pack of 50





Switches

Condensate Safety Overflow Switch

FEATURES:

- Adjustable Activation Height
- Position Anywhere Along the Drain Pan
- For Standard Rated Installations in Primary or Secondary Drain Pans

CS-3

Plenum Rated

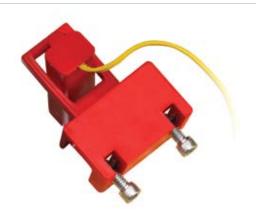


CS-3-BULK50





For large installs, available in a Bulk Pack of 50



Condensate Safety Overflow Switch

FEATURES:

- Position Anywhere Along Drain Pan
- Adjustable Activation Height Minimum 1.5"
- Sensor Assembly Swivels to Accommodate Drain Pans with Sloped Sides
- Clamps Easily Over the Edge of All Drain Pan Types, Including Formed Plastic and Galvanized Sheet Metal

CC-1





Condensate Safety Overflow Switch

FEATURES:

- Position Anywhere Along Drain Pan
- Clamps Easily Over the Edge of All Secondary Drain Pan Types, Including Formed Plastic & Galvanized Sheet Metal
- Translucent Design for Easy & Fast Inspection
- LED Indicator Illuminates when Switch is Activated
- For Standard Rated Installations in Secondary Drain Pans

CS1200





Condensate Safety Overflow Switch

FEATURES:

- Fits Over 3/4" Standard Plastic Pipe without Cutting Drain Line
- Float Free Design, Ideal for Drier Environments
- Switch Orientation Adjusts Sensitivity
- Includes Easy to Attach Primary Drain Pan Fitting
- For Standard Rated Installations in Primary or Auxiliary Lines

SOS-1



Switches





Secondary Pan Latching Switch

FEATURES:

- Minimum trigger depth is 3/8"
- Variable height feature
- Secure with single thumb screw

BG-101



Primary Pan Latching Switch

FEATURES:

- Fits in Tight Spaces
- Clear Housing, Easy to Check and Measure Water Levels
- No Cutting to Remove

Includes Fitting and Elbow

BG-301+



Primary Pan Latching Switch

FEATURES:

- Fits in Tight Spaces
- Clear Housing, Easy to Check and Measure Water Levels
- No Cutting to Remove

Includes Fitting, Elbow and Trane® Adapter

BG-301+T



Primary Pan Latching Switch

Plenum Rated

FEATURES:

- Fits in Tight Spaces
- Clear Housing, Easy to Check and Measure Water Levels
- No Cutting to Remove

Includes Fitting, Elbow and Trane® Adapter

BG-302P+T





Condensate Drain Lines

Mini-Split Condensate Drain Line

A unique drain line for mini-split units. This large diameter drain line is typical for mini-split installations. Available in 160 feet or 20 feet lengths with cut marks every 3.28 feet. Accommodates 5/8" and 3/4" connections.

ITEM	DESCRIPTION	UOM	ОМ
230-DL16	Mini-Split Drain Line, 5/8 in. ID	EA	1
230-DL16-20	Mini-Split Drain Line, 5/8 in. ID	EA	1



230-DL16

Ductless Smooth Drain Line

230-DL16-S, is a unique non-kinking drain line for mini-split units, designed specifically with a smooth internal surface. The 16mm / 5/8 in. Smooth Drain Line resists blockages, improving condensate flow within mini-split installations. The non-insulated drain hose is available in 98 feet.

ITEM	DESCRIPTION	UOM	ОМ
230-DL16-S	16mm / 5/8 in. Smooth Drain Line	EA	1



230-DL16-S

Pro-Treat® Line Guard

- Prevents Build Up of Slime in Condensate Drain Lines
- Infused with Copper and Silver Technology
- Keeps Condensate Lines Clean and Flowing for up to Three Years After Installation
- Customizable and Easy to Install, up to 100'

ITEM	DESCRIPTION	UOM	ОМ
PTLG-100	100' Rope - 1/4" Thick	EA	1



PTLG-100

Installation Components

Components







Asurity



A/C Easy Tee & Service Tool Flexible & Cost Effective Condensate Line Maintenance

FEATURES:

- Quickly Clear Condensate Lines
- Never Cut Condensate Lines Again
- Complies with Code 307.2.5

ET75 A/C Easy Tee Cleanout Port

ST75 A/C Easy Tee Service Tool Set



Waterless Trap

FEATURES:

- Prevents Unwanted Air Leakage from Condensate Line
- Will Not Freeze or Dry Out
- Eliminates Sludge Buildup
- For Negative Pressure Applications

WTRAP



Drain Trap Kit

U Trap

FEATURES:

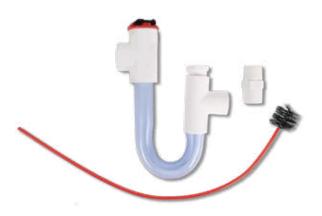
- Easy Installation and Troubleshooting
- Schedule 40 PVC Fittings
- Cleanout Tee
- Fits 3/4" PVC; 1" Drop

DTK113B

Includes - Cleaning Brush



Drain Trap Kit



Drain Trap Kit With Safety Overflow Switch

J Trap, Cleaning Brush, Float Switch

FEATURES:

- Easy Installation and Troubleshooting
- Schedule 40 PVC Fittings
- Cleanout Tee
- Fits 3/4" PVC; 2.25" Drop

DTK205



Drain Trap Kit With Safety Overflow Switch

U Trap, Cleaning Brush, Float Switch, Cross

FEATURES:

- Easy Installation and Troubleshooting
- Schedule 40 PVC Fittings
- Cleanout Tee
- Fits 3/4" PVC; 1" Drop

DTK207



Drain Trap Kit With Safety Overflow Switch

U Trap, Cleaning Brush, Float Switch

FEATURES:

- Easy Installation and Troubleshooting
- Schedule 40 PVC Fittings
- Cleanout Tee
- Fits 3/4" PVC; 1" Drop

DTK210



Treatments



Pan Treatments





Pro-Treat® Condensate Pan Treatment

- Controls Odor and Pan Overflows
- Combats Sludge, Slime, Fouling
- Helps Maintain Clean Drain Pan
- Approved for Computer Room Use

PROTREAT-151*	100 Tablets	1 Tablet - 3 Tons/Mo.
PROTREAT-152	12 King Size Tablets	1 Tablet - 3 Tons/3Mo.
PROTREAT-161	100 Tablets	2 Tablet - 3 Tons/Mo.
PROTREAT-200	200 Tablets	2 Tablet - 3 Tons/Mo.
PROTREAT-217	200 Thin Tablets	3 Tablet - 3 Tons/Mo.
PROTREAT-350**	100 Tablets	3 Tablet - 3 Tons/Mo.
*EPA Registered	**Industrial Use Or	nly

Pro-Treat® Condensate Pan Treatment

- Kills Odor-Causing Bacteria
- Controls Odor and Pan Overflows
- Combats Sludge, Slime, Fouling, and Algae Growth

PS-01	For Equipment From 1 to 2 Tons	10 Applications
PS-03	For Equipment From 3 to 5 Tons	6 Applications
PS-07	For Equipment From 7 to 12 Tons	2 Applications
PS-20	For Equipment From 10 to 25 Tons	1 Application
PS-40	For Equipment From 40 to 50 Tons	1 Application
EPA Registered		

EPA Registered



Flow-Plus® Condensate Pan Treatment

- Maintains Condensate Flow and Prevents Drain Pan Overflow
- Activated When Condensate Flows Over Surface
- Deodorizes
- Stavs in Place
- No Residue

FLOW-PLUS-200	200 Mini Tabs	For 1/3 to 3 Ton Units
FLOW-PLUS-25	25 Mini Tabs	For 1/2 to 3 Ton Units
FLOW-PLUS-6	Light Tonnage	For 3 to 5 Ton Units
FLOW-PLUS-10	Medium Tonnage	For 5 to 20 Ton Units
FLOW-PLUS-125	High Tonnage	For 20 to 50 Ton Units
FLOW-PLUS-CP	6 Pump Treatment Tablets	



Treatments

Condensate Neutralization







Horizontal Condensate Neutralizer

FEATURES:

- Suitable for 400,000 BTU/h at 93% Efficiency
- Prevents Acidic Condensate from Corroding Drains and Sewer Systems
- Helps Maintain a Neutral Environment for Bacteria in Septic Systems
- Suitable for Use on All Types of Natural Gas and Propane Appliances
- Includes Initial Charge of Neutralization Media

CNH-4K

Vertical Condensate Neutralizer

FEATURES:

- Has the Same Features as Horizontal Condensate Neutralizer
- Float System Indicates if Unit has Become Plugged
- Integral Bypass Feature Prevents Condensate Backflow into Appliance
- 3/4" FNTP Inlet and Outlet Connections
- Includes Initial Charge of Neutralization Media

CNV-4K

Neutralization Tank

- Suitable for 3 Million BTU/h at 93% Efficiency
- Prevents Acidic Condensate from Corroding Drains and Sewer Systems
- Helps Maintain a Neutral Environment for Bacteria in Septic Systems
- Suitable for Use on All Types of Natural Gas and Propane Appliances

CNT-3M

Neutralization Media

Prevents Acidic Condensate from Corroding Drains and Sewer Systems

Replacement For

CNM-4K CNV-4K CNH-4K CNHK-4K **CNM-BULK** CNV-4K CNH-4K CNHK-4K

CNM-3M CNT-3M



CHEMICALS - MASTERCARE™

SEALANTS & SYSTEM ADDITIVES

FAST, EASY & EFFECTIVE!





- No tools, gauges or runtime required
- Works universally with all compressors, heat pumps & condensers
- Will not interfere with manifold gauges, TXVs, pistons or cap tubes
- No call backs seals leaks up to 300 microns
- No water problems with DRY R[™] patented water removal system
- For systems up to 12 tons!

LEAKARMOR™ FLEX SHOT™ SYSTEM FOR EVEN MORE EFFICIENCY!



- Patented "Push Button" delivery system fills in less than 10 seconds
- Delivery system comes in single use and reusable options
- Zip-seal bags for easy handling and storing



MASTERCARE™ - CHEMICALS



INJECT ADAPTERS PATENTED DELIVERY SYSTEM



Inject Adapters Contents: 1 Set Of Inject Adapters IA-MC



- Flex Shot™ Inject Adapters Easy fasten injection tool made of durable anodized aluminum
- Tested up to 100 injections
- Reusable zipper seal bags make storing simple
- Replacement adapters reduces overall install cost



BOOST JUICE® - PERFORMANCE ENHANCER

Boost Juice®

Contents: 1 Hose

992-MC



- HVAC/R system performance improvement additive
- Lowers energy costs by reducing the amperage draw up to 22% (testing average of 13%)
- Saves homeowners money and reduces noise
- System improvement typically seen in 24-72 hours
- Compatible with units up to 12 Tons

CHEMICALS - MASTERCARE™

LEAKARMOR™SEALANTS & SEALANT KIT





SEAL LEAKS

The proven Flex Shot formula that permanently seals and prevents future leaks, no runtime required. The sealant installs in seconds with our patented delivery system. Compatible with units up to 12 Tons.



HVAC/R Leak Sealant Contents: 1 Hose & 1 Set Of Fittings 985S-MC



HVAC/R Leak Sealant Contents: 4 Hoses 985M-MC



Inject Adapters Contents: 1 Set Of Fittings IA-MC



HVAC/R Leak Sealant Kit Contents: 1 Can with Hose with Self-Piercing Valve 944KIT





- Easy Shot[™] can with hose with self-piercing valve for simple delivery
- Eliminates moisture and seals systems to stop and prevent leaks
- Installs quickly with no pump down or recovery
- Compatible with all oils and refrigerants
- Compatible with units up to 12 Tons
- Great for all systems including microchannel, heat pump and geothermal

MASTERCARE™ - CHEMICALS

DIVERSITECH



LEAKARMOR™SEALANTS WITH DYE & SEALANT WITH DYE KIT





HVAC/R Leak Sealant with UV Dye

Contents: 1 Hose & 1 Set Of Fittings 995S-MC



HVAC/R Leak Sealant with UV Dye

Contents: 4 Hoses 995M-MC



Inject Adapters

Contents: 1 Set Of Fittings IA-MC



HVAC/R Leak Sealant with UV Dye Kit

Contents: 1 Can with Hose with Self-Piercing Valve 972KIT



- Easy Shot[™] can with hose with self-piercing valve for simple delivery
- Includes UV dye for complete repair system
- Eliminates moisture and seals systems to stop and prevent leaks
- Installs quickly with no pump down or recovery
- Compatible with all oils and refrigerants
- Great for all systems including microchannel, heat pump and geothermal
- Compatible with units up to 12 Tons

CHEMICALS - MASTERCARE™

LEAKARMOR™UV DYE WITH DRY R™







Master Care

SUPER CHANGE

Master Can Master Co

Master Gre

Master Care

- Advanced class of highly concentrated UV Dye
- Uses moisture eliminating DRY R[™] instead of POE oil
- Quickly locates leaks in systems
- Clean, no-mess injection every time
- Compatible with units up to 6 Tons (can) and 12 Tons (bag)

LeakArmor™ UV DYE - Hose

Contents: 1 Hose 990 **LeakArmor™ UV DYE**

Contents: 1 Can 980

SUPER CHANGE™ - REFRIGERANT RETROFIT



REFRIGERANT RETROFIT



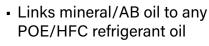
Super Change™ Refrigerant Retrofit

Contents: 1 Hose 991-MC



Super Change™ Refrigerant Retrofit

Contents: 1 Can 981



- Eliminates oil change out
- Replaces R-22 line set conversion flush
- Boosts system efficiency
- Won't plug TXVs or cap tubes or pistons.
- Compatible with units up to 6 Tons (can) and 12 Tons (bag)



Master Care

ER CHANG

MASTERCARE™ - CHEMICALS





COIL CLEANING PRODUCTS **EFFECTIVE, CONVENIENT AND DEPENDABLE**

Same great coil cleaners, now under the MasterCare name. We offer Coil Cleaners for every application, with a variety of pack sizes to fit your needs.

MASTERCARE™ COIL CLEANER APPLICATION SOLUTION GUIDE -

Product	Purpose	Mix Ratio: Gallon	Application Solutions	Equipment
PRO-GREEN™	LIGHT DUTY	3:1	Condensate Buildup, Dirt & Grime	Condensers, Evaporators, Fan Blades, Grilles, Electronic Air Filters, Microchannels, Small Condenser Coils, Small Evaporator Coils, Coated Coils, Mini-Splits
TRIPLE-D®	MEDIUM DUTY	6:1	Condensate Buildup, Degreasing Deodorizer, Dirt & Grime	Condensers, Evaporators, Rubber Roof Tops, Fan Blades, Grilles, Electronic Air Filters, Microchannels, Small Condenser Coils, Small Evaporator Coils, Mini-Splits
PRO-BLUE™	HEAVY DUTY	3:1	Brightener, Condensate Buildup, Degreasing, Dirt & Grime, Oxide Deposits	Condensers, Small Condenser Coils
PRO-RED+ [™]	EXTRA HEAVY DUTY	3:1	Brightener, Condensate Buildup, Degreasing, Dirt & Grime, Oxide Deposits	Condensers, Small Condenser Coils
PRO-BROWN™	SUPER HEAVY DUTY	3:1	Brightener, Condensate Buildup, Degreasing, Dirt & Grime, Oxide Deposits	Condensers, Small Condenser Coils
PRO-YELLOW™	ULTRA HEAVY DUTY	2:1	Brightener, Condensate Buildup, Degreasing, Dirt & Grime, Oxide Deposits	Condensers, Small Condenser Coils

Sani C-N-D™ Disinfectant

ITEM. #	DESCRIPTION	UOM	ОМ
SANI-CND	Sani C-N-D™ Disinfectant - 1 Gallon	EA	4

- Contains an EPA-registered hard surface disinfectant qualified for use against the coronavirus that causes COVID-19
- Disinfectant, cleaner, mildewstat and fungicide
- Sanitizer (for non-food contact services)



CHEMICALS - MASTERCARE™

COIL CLEANING PRODUCTS

EFFECTIVE, CONVENIENT AND DEPENDABLE





PRO-GREEN 1 Gallon Concentrate

PRO-GREEN-4X 4X Concentrate

PRO-GREEN™ LIGHT-DUTY COIL CLEANER

- No-rinse mild alkaline
- Non-fuming for indoor use
- Aluminum safe for microchannel and mini-splits
- Non-toxic, non-corrosive
- Economical: 1 gal. makes 4 gallons of coil cleaner
- NSF approved
- More convenience to choose from with NEW packaging options: 4 times concentrate quart and handy 1 shot 4 oz. bottle



TRIPLE-D 1 Gallon Concentrate

1 Gallon Concentrate

TRIPLE-D-4X4X Concentrate

TRIPLE-D® MEDIUM-DUTY COIL CLEANER

- Ultimate medium-duty coil cleaner for condensers & evaporators
- Indoor & outdoor low-foaming alkaline detergent
- Metal safe & fin friendly
- Economical: 1 gallon makes 7 gallons of coil cleaner
- NSF approved
- More convenience to choose from with NEW packaging options: 4 times concentrate quart and handy 1 shot 4 oz. bottle



4X Concentrate

PRO-BLUE™ HEAVY-DUTY COIL CLEANER

- Heavy-duty foaming outdoor coil cleaner
- Brightens coils
- Penetrates dirt, grease & grime
- Great for small condensers
- Economical: 1 gallon makes 4 gallons of coil cleaner
- NSF approved
- More convenience to choose from with NEW packaging options: 4 times concentrate quart and handy 1 shot 4 oz. bottle.

MASTERCARE™ - CHEMICALS



PRO-RED+™ EXTRA HEAVY-DUTY COIL CLEANER

- Foaming alkaline detergent
- · Lifts away grime
- Corrosion-inhibiting formula
- Great for condensers
- Economical: 1 gallon makes 4 gallons of coil cleaner
- NSF approved
- More convenience to choose from with NEW packaging options: 4 times concentrate quart and handy 1 shot 4 oz. bottle.



PRO-BROWN™ SUPER HEAVY-DUTY COIL CLEANER

- Powerful cleaning agents & detergents for outdoor jobs
- Foaming alkaline cleaner
- Ideal for aluminum heating & cooling coils
- Brightens coils
- Penetrates dirt, grime & oxide deposits
- Economical: 1 gallon makes 4 gallons of coil cleaner
- NSF approved

PRO-BROWN 1 Gallon Concentrate



PRO-YFIIOW™ UITRA HFAVY-DUTY COIL CIFANFR

- Aggressive cleaning agents & detergents for stubborn jobs
- Foaming alkaline cleaner
- Ideal for small & large condensers
- Brightens coils
- Penetrates dirt, grime & oxide deposits
- Economical: 1 gallon makes 3 gallons of coil cleaner
- NSF approved

PRO-YFII OW 1 Gallon Concentrate



CHEMICALS - BBJ

EVAPORATOR COIL CLEANER



Part # 520-01 -1 Gallon Concentrate Part # 525-01 -5 Gallon Pail Concentrate

BBJ Power Coil Clean™ with Enviro-Gard



- pH balanced won't corrode coils or metal surfaces
- Biodegradable
- Enhanced with Enviro-Gard to protect HVAC coils during cleaning
- Removes buildup of dirt, grime and other deposits

BBJ evaporator coil cleaner will not etch, pit or corrode metal. It is safe for use on all metals, including copper and aluminum.

A fast and safe pH balanced coil cleaner that cleans and protects coils during cleaning. Use Power Coil Clean to remove the even the most stubborn deposits of dirt, grime, and other contaminants effectively and safely from evaporator and condenser coils.

HVAC COIL CLEANER



BBJ Micro Coil Clean

BBJ Micro Coil Clean is specifically designed for use in mini splits, ductless systems, window units, package units and other compact HVAC and refrigeration systems. It is a self rinsing coil cleaner that effectively removes accumulated residue, restores operating efficiency, and prepares the unit for sanitization. This formula is safe for all metals, including aluminum and copper.

- Non-caustic
- Detergent-based alkaline coil cleaner
- Biodegradable (Test Method 405.1)
- Releases no VOCs

BBJ Micro Coil can be rinsed away with water or used as a self-rinsing coil cleaner.

Available in ready-to-use aerosol or concentrate forms

Part #: 505-01, 17 oz Aerosol Can, (6/case) - Ready-to-use

Part #: 510-01, 1/2 Gallon Bottle (4/case) - Makes 10 Gallons of Ready-to-use

Part#: 550-01, 5 Gallon Container - Makes 100 Gallons of Ready-to-use

BBJ Mold Control for HVAC Systems and Air Ducts

MOLD CONTROL

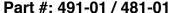
BBJ Mold Control for HVAC Systems and Air Ducts® is a broad spectrum antimicrobial agent in a ready to use form. Use to sanitize all elements of both the supply and return side of HVAC systems including coils, pans and more. One application provides months of protection.

- EPA-registered for use in occupied spaces
- Use on coils, pans, ductwork, fans and more
- Will not damage or bleach surfaces
- Sanitizes and deodorizes no need to use multiple products
- Ready to use, no measuring, no mixing!



BBJ Mold Control for HVAC Systems and Air Ducts Concentrate

Protects against mold and deodorizes all HVAC components. Use on ductwork, coils, drain pans, air handling units, package units, and humidifiers and dehumidifiers. Also helps remove and stop musty smells from odor causing bacterial growth.



Concentrated formula can be mixed as required an applied with foggers, air compressors, or other aerosol methods.

BBJ FreshDuct Odor Eliminator – Industrial Odor Control Product for HVAC

FreshDuct Odor Eliminator® is a powerful industrial odor control and eliminator for use in HVAC systems, mold remediation projects, fire remediation, basements, crawl spaces, and many other areas. The proprietary formula encapsulates and eliminates odors at their source. Safe for hard and fiber surfaces!

- Lined and unlined ductwork
- Fiberglass insulation
- Automobile interiors
- **Draperies and furniture**
- Carpeting

Part #: 433-01, 15 oz. Concentrate bottle (makes 5 gallons)

Part #: 472-01, 14 oz. Ready-To-Use aerosol spray



Available in 14 oz. aerosol Part #: 490-01



MOLD CONTROL



Available in concentrate and ready to use formulas



CHEMICALS - BBJ

MOLD CONTROL

BBJ Ductless Mini-Split First Aid Kit

Mini-split ductless HVAC systems are quickly growing in popularity. These units provide maintenance challenges that are easily addressed with the complete BBJ Ductless Mini Split First Aid Kit. Each kit contains everything you need to clean and sanitize a mini split system.

Each kit includes:

- Non-caustic coil cleaner
- Powerful EPA registered antimicrobial to safely sanitize and deodorize
- All in an aerosol formula perfect for use in tight indoor spaces

The Mini-Split First Aid Kit™ includes aerosol versions of our popular Micro Coil Clean and BBJ Mold Control for HVAC Systems and Air Duct products. This duo provides the muscle you need for a mini split cleaning job.



Part #: 700-01

Micro Coil Clean: Non-caustic, detergent-based self-rinsing coil cleaner that has powerful surfactants to lift dirt and debris. Safe to use on even the most delicate coils but strong enough to remove stubborn deposits.

Mold Control for HVAC Systems and Air Ducts: This EPA registered antimicrobial stops growth on coils, fans blades and other mechanical parts for up to one year when used as directed.

HEATING SEASON - 2022

BBJ - CHEMICALS

ODOR ELIMINATOR

BBJ MMR II Mold & Mildew Remover/Disinfectant

MEETS EPA EMERGING PATHOGEN GUIDELINES. Powerful disinfectant and mold remover. MMR-II is a commercial-grade nonporous surface cleaner and broad-spectrum disinfectant combined in one powerful product. Clean and sanitize in one step. Disinfects, and removes unsightly mold streaks on walls, ceilings, diffusers, and other hard surfaces, and kills mold in HVAC systems.

- EPA registered commercial cleaner and disinfectant
- Highly effective against a wide variety of pathogenic organisms
- Ready-to-use commercial strength formula no measuring or mixing
- Kills 99% of germs



- Staph
- Listeria
- Salmonella
- Coli
- MRSA
- Strep and more
- Virucidal Activity





Available in a variety of sizes

Part #: 620-01, 32 oz Spray Bottle (12/case)

Part #: 611-01, 1 Gallon Refill (4/case) Part #: 650-01, 5 Gallon Container





INDOOR AIR QUALITY - FRESH-AIRE UV®

APCO-X
AIR TREATMENT SYSTEM



REVOLUTIONARY IAQ TECHNOLOGY

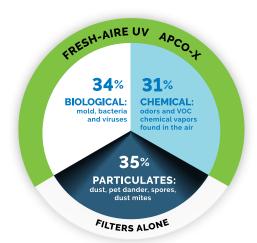
APCO-X is the result of more than a decade of development and is our most advanced indoor air treatment system. It combines UVC light and our proprietary activated carbon technology to safely & effectively neutralize odor-causing VOCs and biological contaminants. It not only treats the air but also helps keep the HVAC system clean and efficient and extend it's life.

FEATURES/BENEFITS

Exclusive V-Twin EverCarbon	Safely & effectively neutralizes
Matrix™ with nanotech antimicrobial coating	odor-causing VOCs and biological contaminants
Advanced 3-year UVC 254nm quartz lamp	Long lasting, safe and effective
Four-way 360° installation	For up-flow, down-flow & horizontal installations
UL Validated to produce no harmful ozone	Scientifically tested ensuring safety
Continuously treats the whole system	Treats the air in the entire home all the time and is virtually maintenance free (UVC lamp replacement only)
Translucent polycarbonate housing	Strong, lightweight and reliable
LED status and lamp fault indicator	To provide operational feedback

SAFELY AND EFFECTIVELY TREATS THE OTHER 2/3^{RDS}

Conventional filters are only effective against particulates, like dust. APCO-X is proven to safely reduce both biological and chemical contaminants inside the air system and throughout the building. Together, they address 99+% of the contaminants in the air.



radit indicator	
1000	
100	APCO-X
	KILLS VIRUSES &
PRESI	NEUTRALIZES VOCS
APCO-X	Vocs
	A 100 mg



Part Numbers			
18-32 VAC		Replacement Lamp	
TUV-APCOX-ER3	3 Year Lamp	TUVL-315	
18-32 VAC with 2nd L	JV Lamp for Coil	Replacement Lamp	
TUV-APCOX-DER3 3 Year Lamp (2)		TUVL-315	
110-277 VAC		Replacement Lamp	
TUV-APCOX-SI3-P 3 Year Lamp		TUVL-315	
110-277 VAC with 2nd UV Lamp for Coil		Replacement Lamp	
TUV-APCOX-DI3-P 3 Year Lamp (2)		TUVL-315	

DESIGNED & ASSEMBLED IN THE U.S.A.



LEARN MORE SCAN TO WATCH THE APCO-X VIDEO

www.freshaireuv.com

FRESH-AIRE UV® - INDOOR AIR QUALITY





UV LIGHT LED SYSTEM FOR MINI-SPLITS

Mini UV LED is the first-of-its-kind UV light LED system for mini-splits and similar limited space applications. Like all A/C systems, mini-splits are prone to internal mold growth and microbial contamination, particularly on and near the blower wheel. The LED light strip in Mini UV LED is designed to sterilize surfaces while having no impact on plastic materials.

FEATURES/BENEFITS

Fits mini-split & ceiling cassette A/C systems	Maintains a clean mini-split system free from mold and microbial growth
UV LED spectrum is safe for eyes & plastics	Saves energy/ reduces maintenance costs
Replaceable 40" Adhesive LED strip	For flexible, quick & easy installations
50,000+ hour expected LED life	Extends life of mini-split system
LED strip trimmable in 4" increments	Improves indoor air quality
120-277 VAC power supply	Will not harm plastics
5 year warranty on all parts	

Part Number

TUV-MINI-LED-SW (includes night switch)



PURITY LOW PROFILE - POLARIZED FILTRATION SYSTEM

1" POLARIZED HVAC FILTRATION SYSTEM

Conventional HVAC filters only capture the largest particles. Unfortunately, it's the fine particulates that are the greater threat. There are costly filter systems on the market which capture fine particles but they require expensive retrofitting and tend to restrict air-flow, which increases static pressure resulting in reduced HVAC efficiency and energy loss.

FEATURES/BENEFITS

UV-reactive filter media with antimicrobial nanotechnology	Captures particulates, allergens, pet dander, dust mites, spores, etc.
97% effective capturing particles down to .3 microns (.00001 inch)	Low-cost media replacement (*3-6 months on average)
Fits standard 1" filter slot	Helps to reduces odors and VOCs
Lifetime system warranty	



Part Numbers

Replacement Media

TUV-PLP-XXYY
TUV-PLPM-1-XXYY

www.freshaireuv.com



INDOOR AIR QUALITY - FRESH-AIRE UV®

BLUE-TUBE UV GERMICIDAL UV LIGHT



WORLD'S MOST POPULAR HVAC UV LIGHT

Our patented Blue-Tube UV is popular because it works. It's the simple, safe and effective way to keep the HVAC system clean and improve indoor air quality. The powerful UVC light neutralizes germs continuously and is known for its reliability, ease of installation, innovative features and quality components.

FEATURES/BENEFITS

Auto sensing 18-32V & 110-277V models	Auto-sensing power supply allows for flexible installation options
1-year or 2-year UVC 254nm quartz lamp availability	Long lasting, safe and effective lamp choices based on application needs
Magnetic Z-Bracket design	For flexible quick & easy installations
Safe, Ozone-free operation	Ensures no harmful by-products are introduced into the air
Continuously treats the HVAC system	Treats the air in the entire home all the time and is virtually maintenance free (UV lamp replacement only)
Lifetime Warranty	Ensures years of trouble free operation

Neutralizes Mold, Bacteria, Viruses, and Allergens MOLD **BACTERIA VIRUSES ALLERGENS**

CLEANS THE COIL AND DRAIN PAN

Helps keep the HVAC system running efficiently and extends its life.





Lifetime System. 1 year & 2 year UV lamp.

Part Numbers						
18-32 VACR		Replacement Lamp				
TUV-BTER 1 Year Lamp TUV-BTER 2 2 Year Lamp		TUVL-115P TUVL-215P				
110-277 VACR		Replacement Lamp				
TUV-BTST TUV-BTST 2	1 Year Lamp 2 Year Lamp	TUVL-115P TUVL-215P				

1 or 2 year UVC Lamp Options Magnetic "Z" Mounting Bracket

clean coils with UVC lights

www.freshaireuv.com

Power Supply (18-32 or 110-277 VAC)

FRESH-AIRE UV® - INDOOR AIR QUALITY

BLUE-TUBE XL

COMMERCIAL UVC SYSTEM

This system is designed to improve indoor air quality by sterilizing airborne viruses, bacteria, and allergens. When coil-mounted it also saves energy and maintenance costs associated with commercial HVAC. A biofilm of only 0.002" can reduce efficiency by 37%! UVC germicidal disinfection is the most cost-effective and practical solution.

Blue-Tube XL offers easy and flexible installation. It includes an advanced multivoltage, water-resistant power supply. All parts (except lamps) are covered by a lifetime warranty. This system also improves indoor air quality by sterilizing airborne bacteria, viruses, and allergens.





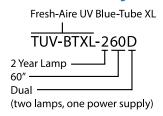
FEATURES/BENEFITS

Optional door interlock switch (TUVC-INTLCK-SP) Produces no harmful ozone

Coil-mount for optimal biofilm disinfection	99.9% surface disinfection GUARANTEED (coil)
Duct-mount for optimal airborne disinfection	Sterilizes mold, bacteria, viruses
Fits coils up to 144" x 144"	Disinfects coil & drain pan
High-output 2-year guaranteed UVC lamps	Improves HVAC system efficiency (coil)
Includes everything needed for most installations	Improves indoor air quality
Scalable design for multi-lamp configurations	Ensures years of trouble free operation
Water-resistant 110-277V auto-sensing power supply	



Part # Key





www.freshaireuv.com

INDOOR AIR QUALITY - FRESH-AIRE UV®

AIRE-FOIL UPPER AIR UVC DISINFECTION



UPPER AIR DISINFECTION FOR OCCUPIED SPACES

The need to protect occupied spaces from airborne pathogens has never been greater. Fortunately, Fresh-Aire UV germicidal lights have been proven to neutralize viruses, mold, and bacteria within seconds of exposure.

The Fresh-Aire UV Aire-Foil features 15" - 60" high-output UVC lamps and is wall-mounted near ceiling height. Upper air UV-C disinfection is an ideal method to mitigate the spread of microorganisms in occupied spaces. As air naturally heats and cools it moves by convection, which continuously circulates it throughout the space. Airborne viruses and bacteria are sterilized when exposed to the UVC light field.

The Aire-Foil unit is installed at a minimum height of 7' and is designed with louvers that shield occupants from UV exposure by projecting UVC light rays parallel to the plane of the ceiling.



Safe	Louvered UVC light is safe for occupied spaces Produces no harmful ozone	
Effective	Neutralizes airborne viruses & bacteria APCO technology for odor and VOC reduction	
Quiet	Air convection for silent operation	
Practical	Dual High-output UVC germicidal lamp length: 15", 24", 32", or 60" Quick & simple installation 2 year UVC lamp life	
Durable	Robust aluminum construction	
Lifetime Warranty	Ensures years of trouble free operation	

DESIGNED & ASSEMBLED IN THE U.S.A.







SPECS

		Lamp	Lamp Dimensions		Electrical		Application Area	
Part Numbers	CE Model Numbers		Width	Depth	Height	Input Watts	Voltage	
TUVC-UAFS-215D-HO	TUVC-UAFS-215D-HO-CE	15"	23.9	6.3	4.6	72w	110-277 VAC	130 sq. ft.
TUVC-UAFS-224D-HO	TUVC-UAFS-224D-HO-CE	24"	33.8	6.3	4.6	114w	110-277 VAC	260-325 sq. ft.
TUVC-UAFS-232D-HO	TUVC-UAFS-232D-HO-CE	32"	43.7	6.3	4.6	160w	110-277 VAC	390-455 sq. ft
TUVC-UAFS-260D-HO	TUVC-UAFS-260D-HO-CE	60"	71.0	6.3	4.6	260w	110-277 VAC	780-910 sq. ft.

Custom lamp options available.

www.freshaireuv.com



FRESH-AIRE UV® - INDOOR AIR QUALITY

APCO-X MAG AIR TREATMENT SYSTEM



REVOLUTIONARY IAQ TECHNOLOGY

APCO-X Mag is the result of more than a decade of development and is our most advanced indoor air treatment system. It combines UVC light and our proprietary activated carbon technology to safely & effectively neutralize odor-causing VOCs and biological contaminants. It not only treats the air but also helps keep the HVAC system clean and efficient and extend it's life.



Part Numbers

TUV-APCOX-MAG15-ER3				
Dimensions	3.54"H x 5"W x 17.12"D			
0-11-	10			

UVC Lamp TUVL-315 Power Supply TUVP-ER (18-32 VAC)

TUV-APCOX-MAG15-ST3

3.54"H x 5"W x 17.12"D **Dimensions** Cells 12

UVC Lamp TUVL-315
Power Supply TUVP-ST (120-277 VAC)

TUV-APCOX-MAG15-DT3 (Dual)

Dimensions 3.54"H x 5"W x 17.12"D Cells 12 UVC Lamp TUVL-315 Power Supply TUVP-DT (120-277 VAC)

TUV-APCOX-MAG11-ER3

Dimensions 13.25"W x 5.0"H x 3.5"D UVC Lamp TUVL-311
Power Supply TUVP-ER (18-32 VAC)

TUV-APCOX-MAG11-ST3

Cells 8 **UVC Lamp**

Dimensions 13.25"W x 5.0"H x 3.5"D TUVL-311

Power Supply TUVP-ST (120-277 VAC)

FEATURES/BENEFITS

Exclusive V-Twin EverCarbon Matrix™ with nanotech anti- microbial coating	Features 65% more effective surface area, improving performance 33% over previous model		
Advanced 3-year UVC 254nm quartz lamp	Long lasting, safe and effective		
Direct coil exposure	Ideal for limited-space HVAC systems with no duct access, or for direct coil exposure		
UL Validated to produce no harmful ozone	Scientifically tested ensuring safety		
Continuously treats the whole-system	Treats the air in the entire home all the time and is virtually maintenance free (UVC lamp replacement only)		
Coated Anti-	Secures assemble in-place		

Secures assemble in-place



Vibration Magnet

is the best choice when there is no access to ducts or when direct coil exposure is a priority.









INDOOR AIR QUALITY - FRESH-AIRE UV®

BLUE-TUBE UV-X

GERMICIDAL UV LIGHT



WORLD'S MOST POPULAR HVAC UV LIGHT

Blue-Tube UV-X is our most advanced HVAC UV light yet, with longer lamp life and an improved electronic power supply. It's the simple, safe, and effective way to keep the HVAC system clean and improve indoor air quality. The powerful UVC light neutralizes germs continuously and is known for its reliability, ease of installation, innovative features and quality components.

FEATURES/BENEFITS

Auto sensing 18-32V & 110-277V models	Automatically adjusts to input voltage	
3-year UVC 254nm quartz lamp	The longest lasting UVC lamp available	
Magnetic Mounting Bracket	Magnet with anti-vibration coating	
Safe, Ozone-free operation	Ensures no harmful by-products are introduced into the air	
Continuously treats the HVAC system	Treats the air in the entire home all the time and is virtually maintenance free (UV lamp replacement only)	
Lifetime Warranty	Ensures years of trouble free operation	



Low-Voltage (ER) Electronic Power Supply

Electrical Warranty

18-32 VAC, 60 Hz, 0.8 Amps, 20 VA 4.2"W x 1.8" H x 1.7"D

Lifetime

High-Voltage (ST) Electronic Power Supply

Warranty

0.18 Amps/120V Thru 0.09 Amps/277V 0/60 Hz

5.0"W x 2.4" H x 1"D Lifetime

3-Year UV Lamp

Spectrum Type 254 nm germicidal UVC Shielded Quartz Hot Filament

15"L x 0.9 Dia.

Common to All

Package: 28.5L x 4.5" Dia.

Weight

1.5 lbs.

Kit Includes

Power Supply, 8' Lamp Cable, UV Lamp, Magnetic 'Z' Bracket, Mounting Hardware, Panel Indicator,

Installation Decal

US Patent #

7,704,463

Par	tΝ	um	bers

	r di ci tullisci s		
	18-32 VAC	Replacement Lamp	
TUV-BTX-ER3		3 Year Lamp	TUVL-315
	110-277 VAC		Replacement Lamp
	TUV-BTX-ST3	3 Year Lamp	TUVL-315





DRAFT INDUCERS - BLOWERS

WE HAVE THE HIGHEST AVAILABLE INVENTORY WHEN IT COMES TO DRAFT INDUCERS AND WE OFFER FULL LINES OF PACKARD & FASCO INDUCERS



Distinct, color-coded packaging Red label = Heating



Product image for quick and simple identification



Cross-reference replacement data listed



Most models have gaskets included



Same features as the original equipment draft inducer

> **Engineered for** drop in replacement



Direct Replacement For Carrier

- 1/16 HP
- 1/15 HP
- ½16 HP 115 Volts • 115 Volts • 0.85 AMPS • 0.85 AMPS • 0.85 AMPS • 1.15 AMPS
- 3300 RPM 3300 RPM 3400 RPM 1 ³/₄" inlet 3" inlet 3" inlet
- Direct Replacement For:
- 320725-756* 320725-757*

320725-758*

Item ID	Motor Type	Amps	Volts	Speeds	Direct Replacement For	
BEST SELLING PACKARD DRAFT INDUCERS						
65569	Shaded Pole	1.80	115	1	Carrier: 318984-753; HC21ZE117B	
66756	PSC	0.85	115	1	Carrier: 1179081; 320725-756	
66762	Shaded Pole	1.06/0.28	115	2	Carrier: 326628-762	
48331	Shaded Pole	1.80	115	1	Goodman: 5KSB46GF0001S; B4833000	
66005	Shaded Pole	1.60	115	1	Goodman: B1859005; J238-112-11128	
66002	Shaded Pole	1.20	115	1	Goodman: 0131M00002P; 0131M00002S	
66338	Shaded Pole	2.40	115	1	ICP: 1012002; 1013188; 1013388A; 1014338	
66649	PSC	0.50	208-230	1	ICP: 1175978	
66833	Shaded Pole	1.60	115	1	ICP: 1010238; 1010238P; 1010324; 1010975	
66847	Shaded Pole	1.70	120	1	Rheem: 117104-01; 117104-08; 117847-07	
66781	PSC	0.60	115	1	Rheem: 70-101087-81; 7021-11559	
82641	PSC	0.25	208-230	1	Rheem: 70-23563-02; 70-23586-01; 70-23586-81	
66787	Shaded Pole	1.20	120	1	Trane: 210330673; 210340125; 7021-10281	
			BEST SELI	LING FASCO	D DRAFT INDUCERS	
A170	Shaded Pole	2.30	115	1	ICP: 1010312; 1010526; 1010928; 1011095; 1011097	
A171	PSC	0.70	115	1	ICP: 1010491; 1010527P; 1011096; 1011410	
A163	Shaded Pole	1.80	115	1	Lennox: 67K0401; 67K0401P; FB-RFB547; Fasco: 7021-9450	
A136	PSC	0.75	115	1	Rheem: 7062-3861	
A225	Shaded Pole	2.25	115	1	York: 024-34558-000	

BLOWERS - DRAFT INDUCERS

RAFT INDUCER.



Direct Replacement For Armstrong | Amana **Magic Chef**

- 0.65 AMPS 208-230 Volts
 3000 RPM **INCLUDES PRESSURE SWITCH, TUBE**
- Direct Replacement For: R06428D426, 48HWC181, 35HWC181*



Direct Replacement For Armstrong

- 1/30 HP • 0.53 AMPS • 115 Volts • 3300 RPM

Direct Replacement For: 117521, 40404-003*



Direct Replacement For

- 1 1/2" Stack • 1.7 AMPS • 115 Volts • 3200 RPM
- Direct Replacement For: 318984-753*



Direct Replacement For Carrier

- 0.9/0.48 AMPS • 2 Speeds • 3000/1900 RPM • 115 Volts
- 3 PRONG MOLEX PLUG INCLUDED Direct Replacement For: 326628-765*



Direct Replacement For Carrier

• 1/40 HP • 1.5 AMPS • 3000 RPM 115 Volts

Direct Replacement For: HC21ZE123, HC21ZE123A, J238-150-15215AT*



65570

Direct Replacement For

• 1 ½" Stack • 0.80 AMPS • 230 Volts • 3000 RPM Direct Replacement For: HC24HE230*



- 1 1/2" Stack 1.80 AMPS • 115 Volts
 - 3200 RPM
- GASKET INCLUDED

Direct Replacement For: 310371-752*



Direct Replacement For

• 0.06 HP

Direct Replacement

373-19801-820*

For Coleman

Direct Replacement For:

- 0.55 AMPS
- 115 Volts • 3000 RPM

Direct Replacement For: 309868-755*

65475



Direct Replacement For Carrier

- 28 Watts
- 0.8 AMPS
- 208-230 Volts
 3000 RPM

Direct Replacement For: 48SS400626, HC24HE230*

Direct **Direct Replacement** Replacement For Nordyne/Miller 903404*

M1MB056ABW*

*Visit packardonline.com for all available OEM direct replacements. Must be installed by a licensed contractor.

COMBUSTION AIR BOOSTERS

for high efficiency gas furnaces

Pressure tap included • OEM direct replacement only

DRAFT INDUCERS - BLOWERS



Direct Replacement For Dunkirk

- 1/45 HP • 115 Volts
- 0.4 AMPS • 3000 RPM

Direct Replacement For: 433-00-510*



Direct Replacement For Goodman

- 120 Volts
- 2.8 AMPS • 3000 RPM

Direct Replacer ant For: 0171M00000, 0171M00000P*



Direct Replacement For Goodman

- 1/30 HP
- 0.60/0.56 AMPS
- 208-230 Volts 3000 RPM

Direct Replacement For: B2959000S, 7021-8656*



Direct Replacement For

- 1/16 HP 0.47 AMPS
- 208-230 Volts 3450 RPM PRESSURE TUBE INCLUDED

Direct Replacement For: 1178421, 71626445, HC0CR242*



Direct Replacement For Goodman

- 2 Speeds 1.8 AMPS • 115 Volts • 3200/2800 RPM
- Direct Replacement For: 5KSB46GF0003*



Direct Replacement For Goodman

- 1/30 HP 115 Volts
- 1.5 AMPS • 3000 RPM

Direct Replacement For: 10702, 3105*



Direct Replacement For

- 1/50 HP • 230 Volts
- 0.3 AMPS • 3000 RPM
- **GASKET INCLUDED**

Direct Replacement For: 1010008, 1085571*



Direct Replacement For

• 1/25 HP • 0.92 AMPS • 115 Volts • 3500 RPM

Direct Replacement For: 1000814, 1001371, 1011350*

*Visit packardonline.com for all available OEM direct replacements.



RAFT INDU

Direct Replacement For Goodman

- 1½" Stack Size 1.4 AMPS 230 Volts 3000 RPM
 - 3000 RPM

GASKET INCLUDED Direct Replacement For: 0131G00000P, 0131G00000PS*



Direct Replacement For Goodman

• 1/50 HP • 0.9 AMPS • 115 Volts • 3000 RPM

Direct Replacement For: B1859000*



Direct Replacement For ICP

- 1/15 HP 208-230 Volts
 3300 RPM
- 0.34 AMPS
- PRESSURE TUBE INCLUDED 1178420, 712112112, HC30CK229*



Direct Replacement For Lennox

- 5/8" Stack 0.43 AMPS 120 Volts 3000 RPM
- Direct Replacement For: 80C93*

Must be installed by a licensed contractor.





BLOWERS - DRAFT INDUCERS

DRAFT INDUCERS



Direct Replacement For Lennox

- ½60 HP • 120 Volts • 2800 RPM Direct Replacement For: 10K5101, 10K5301*

82182

Direct Replacement For Rheem

- ½30 HP • 460 Volts • 3300 RPM
- Direct Replacement For: 70-23641-02 70-23641-82*



Direct Replacement For Trane

- 17 Watts 0.19 AMPS 208-230 Volts 3000 RPM
- GASKET INCLUDED
 Direct Replacement For: D965128P01*



Direct Replacement For Weil McClain

• ½ HP • 115 Volts • 1.8 AMPS • 3100 RPM Direct Replacement For: 510-312-312*



Direct Replacement For Lennox

- ½0 HP • 115 Volts • 3000 RPM
- GASKET INCLUDED
 Direct Replacement For: 101202-01, 102359-01*



213041

Direct Replacement For Rheem

• 3/4" Stack • 0.25 AMPS • 208-230 Volts • 3000 RPM Direct Replacement For: 51-21964-11*



Direct Replacement For Trane

- 2 Speeds
 208-230 Volts
 2800/1500 RPM
- Direct Replacement For: BLW01311, D965130P01*



Direct Replacement For York

• ½35 HP • 115 Volts • 3000 RPM

Direct Replacement For: 326-32067-000*

*Visit packardonline.com for all available OEM direct replacements.



Direct Replacement For Rheem

• 1 Speed • .92 AMPS • 115 Volts • 3300 RPM GASKET INCLUDED Direct Replacement For: 70-102691-81, 7062-6268*



Direct Replacement For Skymark

• 1/35 HP • 208-230 Volts Direct Replacement For: 7021-9136*



Direct Replacement For Trane

• ½30 HP • 120 Volts • 3100 RPM Direct Replacement For: D330787P01*



Direct Replacement For

York

- 1/50 HP • 115 Volts • 1.2 AMPS • 3000 RPM Direct Replacement For: 373-10337-702*
- Must be installed by a licensed contractor.



DRAFT INDUCERS - BLOWERS



Direct Replacement For Amana

• ½0 HP • 1.95 AMPS • 115 Volts • 3250 RPM Direct Replacement For: 11009001, 11009002*



Direct Replacement For

• 1/35 HP • 1.60 AMPS • 115 Volts • 3000 RPM Direct Replacement For: 7002-2792, 7002-2633*



Direct Replacement For Coleman

• 1" Stack • 0.55 AMPS • 115 Volts • 2950 RPM Direct Replacement For: 7990-317P, 7102-2187*



Direct Replacement For

• 1/30 HP • 1.80 AMPS • 115 Volts • 3400 RPM Direct Replacement For: 7021-10602, 7021-11106*



Direct Replacement For Goodman

• ½ HP • 115 Volts • 3400 RPM Direct Replacement For: 7021-9087, 7021-8656*



Direct Replacement For Rheem

• 1/25 HP 0.62 AMPS • 208-230 Volts • 3200 RPM

Direct Replacement For: 7021-9567*



Direct Replacement For Rheem

- 3/4" Stack • 0.25 AMPS • 208-230 Volts • 3000 RPM
- Direct Replacement For: 51-21964-01, 51-21964-11*



download now!



GET OEM CROSS-REFERENCE AT YOUR FINGERTIPS

Search keyword: Packard Draft Inducer App to download at your App Store.









JRAFT INDUCERS



Direct Replacement For Trane

• 1/50 HP • 0.95 AMPS • 115 Volts • 3000 RPM 7021-8428. 7021-8013*



Direct Replacement For Trane

• ½5 HP • 208-230 Volts • 0.64 AMPS • 3000 RPM Direct Replacement For 7021-7833, 7021-8928*



Direct Replacement For

- ½0 HP 208-230 Volts
- 0.64 AMPS • 3200 RPM
- Direct Replacement For 7021-10096, 7021-9656*

Must be installed by a licensed contractor.

*Visit packardonline.com for all available OEM direct replacements.



MOTORS - CONDENSER FAN

Permanent Split Capacitor Condenser Fan Motors





Features

- Permanent split capacitor
- Single speed
- Reversible rotation
- Totally enclosed
- Automatic overload
- 48 Frame
- 60 Hertz
- Single phase
- · Rheem mounting
- Ball bearings



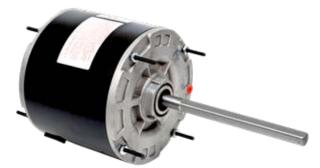
Don't forget the bracket!!

								Direct	
Item ID	H.P.	Volts	RPM	Amps	Shaft Dim. (In.)	Length Less Shaft (In.)	Capacitor Required	Replacement For	Notes
80825	1/8	208-230	825	1.00	1/2 x 6 1/2	3 7/8	5MFD/370V	Emerson 1872	126
43727B	1/6	208-230	1075	1.0-1.1	1/2 x 6 1/2	3 7/8	5MFD/370V	Emerson 1859	126
60825	1/6	208-230	825	1.0-1.1	1/2 x 6 1/2	4 1/8	5MFD/370V	Emerson 1873	126
40825	1/4	208-230	825	1.3-1.4	1/2 x 6 1/2	4 5/8	5MFD/370V	Emerson 1874	126
43732	1/4	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	5MFD/370V	Emerson 1860 & 1876	126
30825	1/3	208-230	825	1.6-1.8	1/2 x 6 1/2	5 1/8	7.5MFD/370V	Emerson 1875	126
43733	1/3	208-230	1075	2.2-2.5	1/2 x 6 1/2	45/8	7.5MFD/370V	Emerson 1861 & 1877	126
43734	1/2	208-230	1075	3.0-3.5	1/2 x 6 1/2	5 1/8	10MFD/370V	Emerson 1862 & 1878	126
43735	3/4	208-230	1075	4.6-5.3	1/2 x 6 1/2	5 3/8	10MFD/370V	Emerson 1868 & 1879	126

Notes: 126. 4 drilled and tapped holes in shell for Rheem applications

5-5/8" Diameter Multi-Horsepower Condenser Fan Motors





Replaces Rheem and hundreds of other Condenser Motors!

Features

- · Permanent split capacitor
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase

- Ball bearings
- Electrically reversible
- All angle mounting
- 48 Frame
- 60 Hertz
- Automatic overload

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (In.)	Length Less Shaft (In.)	Cap. Required		Direct Replacement For
45488B	1/4-1/5- 1/6-1/8	208-230	825	1.8-2.0	1/2 x 6 1/2	4 1/8	7.5MFD 370V	Emerson 5464	Rheem 51-20760-1, Rheem 51-21276-01, Rheem 51-23054-13, Rheem 51-23055-12
45458B	1/3-1/4- 1/5-1/6	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	7.5MFD 370V	Emerson 5458 Emerson 5462	Rheem 51-20354-11, Rheem 51-20668-11, Rheem 51-23053-11, Rheem 51-23055-11

CONDENSER FAN - MOTORS

Permanent Split Capacitor Direct Replacement Motors



Direct Replacement for National Comfort



Direct Replacement for Carrier and ICP



Item ID	H.P.	Voltage	RPM	Amps	Rotation	Bearing	Hertz	Motor Type	Direct Replacement For
45052	1/2	115	1050	7.6	CWSE	Ball	60	PSC	ICP 1009052, 1172488 US Motors K55HXCEM6402
45508	1/5	208-230	1050	1.5-1.4	CWLE	Ball	60	PSC	Carrier HC37GZ005A, GE 5KCP39BGZ257S, ICP 1172508
45598	1/5	208-230	1050	1.5-1.4	CWLE	Ball	60	PSC	ICP 1064945, 1082638, 1082639, 1085925, 1086598, 1092250



Item ID	H.P.	Volts	RPM	Amps	Rotation	Bearing	Hertz	Motor Type	Direct Replacement For
45210	3/4	115	1075	8 35	CCWLF	Ball	60	PSC	Carrier HC37GF210



MOTORS - CONDENSER FAN

Vulcan High Temperature Outdoor Condenser Fan Motors



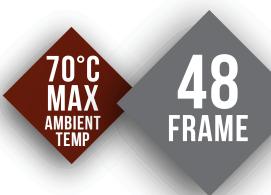


- Class F insulation Shaft Dimensions (In.) 1/2x6 1/2
 - Ball Bearing
 - Reversible
 - All angle mounting
 - Drilled and tapped holes in the shell for Rheem mounting
- Extended thru bolts
- 36" Leads
- Energy efficient PSC design
- UL recognized

Vulcan High Temperature Multi-Horsepower Outdoor Condenser Fan Motors







Features

Replaces Rheem and hundreds of other Condenser Motors!

- Permanent split capacitor
- UL recognized
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- 70°C ambient
- Ball bearings
- Electrically reversible

- Single speed
- · Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- · Automatic overload
- All angle mounting





FAN BLADES & BLOWER WHEELS - AIR HANDLING

WE HAVE ONE OF THE LARGEST OFFERINGS OF FAN BLADES AND BLOWER WHEELS IN THE INDUSTRY



Propellers with Fixed Hub 2, 3, 4 & 5 Blades

Hubless Propellers





KC and KH Series **Fan Blades**

Galvanized **Blower Wheels** Double Inlet





Hubs with Set and Mounting Screws



Features

- Use with hubless aluminum fan blades
- · Can be installed on discharge or intake
- 5 sizes available

Pitch Gauge



Features

 To aid in determining pitch of fan blade

Direct Replacements For OEM Blower Wheels





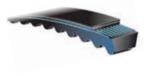




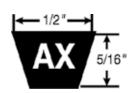


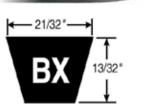








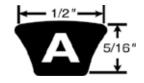


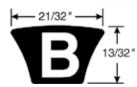












Super HC® Molded Notch Belts - 5VX Section

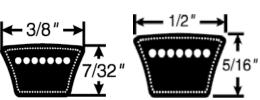






Truflex® V-Belts - 3L and 4L Section





Quick-Link® Emergency V-Belts



Pencil Type Tension Tester



Where there are Belts, there are Pulleys



Stock PVP and P2VP Variable Pitch Single and Double Groove Pulleys



Single Groove Pulleys for 4L or A Belts



Variable Pitch and Fixed Pulleys



Double Groove Pulleys for 4L or A Belts



- Bushings - P, Q and H Split Tapers and QD Bushings



ELECTRICAL - FLAME SENSORS

Silicon Nitride and Carbide Igniters

Packard

Features

- For use with Spark ignition, Flame sensing and Hot Surface Ignition (H.S.I.) systems
- High quality alumina ceramic insulator
- High temperature Kanthal® flame rod material that can withstand 1800° F
- Flame rod can be trimmed down to match the application



Direct Replacement For:

Goodman/Amana/Janitrol 20488501, B1172606, Goodman 0130F00010

PFS010

Single screw, plated steel mounting bracket

- Single rod
- 1/4" male connection
- Overall length 3-3/4" Probe length 2-1/2"



Direct Replacement For:

York S1-SCP-9007053

PFS053

Single screw, plated steel mounting bracket

- Single rod
- 1/4" male connection



Direct Replacement For:

Lennox 40L81

PFS081

90 Degree

- Length of mounting flange to sensor tip 2-1/4"
 - Length of sensor offset 3-1/4"
- Termination 1/4" male quick connect
- · Bracket included



Direct Replacement For:

Trane SEN01114

PFS114

75 Degree

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect



Direct Replacement For:

Lennox 52W29

PFS029

Single screw, plated steel mounting bracket

• Termination 1/4" male quick connect





Direct Replacement For:

Lennox 69W43

PFS043

90 Degree

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect





Direct Replacement For:

ICP/Heil Quaker 1172827

PFS027

90 Degree

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect





Direct Replacement For:

ICP/Heil Quaker 1172827

PFS087

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect





Direct Replacement For:

Lennox/Ducane 28M97

PFS097

90 Degree

- Single screw, plated steel mounting bracket
- Termination 1/4" male quick connect





IGNITERS - ELECTRICAL





IG1412N

- 5.5" Leads with connector
- 120 Volt

Direct Replacement For: Goodman B1401009

IG1414N

- 5.5" Leads with connector
- Wire nuts and bracket included
- 120 Volt

Direct Replacement For: Norton MB457025

IG0001

- Includes mini-igniter, flat mounting plate, screw, instruction sheet and adapter harness
- 120 Volt

Direct Replacement For: Goodman 023K000005

SILICON



IG0004N

- Silicon nitride igniter
- 120 Volt

Direct Replacement

For: Carrier LH33ZS004



- Universal round glo-stix
- **Direct Replacement For: Norton 201D**



IG00145N

- 80 Volt
- Round, Silicon Nitride design

Direct Replacement For: Trane IGN00104



- 120 Volt
- Round, Silicon Nitride design

Direct Replacement For: Trane IGN00146



- 24 Volt
- Silicon nitride design

Direct Replacement For:

Honeywell Q3450

IG1408N

- 5.5" Leads with connector
- Round
- 120 Volt

Direct Replacement For:

Amana 340039P01



IG0148

- 5.5" Leads with connector
- For Weil Mclain AHE, GV, and HE II Boilers
- 120 Volt

Direct Replacement For: Weil Mclain 511330148



- 5.5" Leads with connector
- · Wire nuts and bracket included
- 120 Volt

Direct Replacement For: Norton 201



IG1121

- 5.5" Leads with connector
- Mounting bracket included
- 120 Volt

Direct Replacement For: Modine 5H0750328



IG1401

- Gasket included
- 5.5" Leads with connector
- 120 Volt

Direct Replacement For: Amana D99182



IG1402

- 19" Leads with wire nuts
- 120 Volt

Direct Replacement For: Dornback 271W



IG1403

- 5.5" Leads with wire nuts
- 120 Volt

Direct Replacement For: Trane IGN26



IG1404

- 5.5" Leads with connector
- 120 Volt

Direct Replacement For:

White Rodgers 767A382



THERMOSTATS, TIMERS & BOARDS







ICM550

- Minimum defrost time: 15 minutes
- Maximum defrost time: 23 hours 45 minutes
- Terminate defrost: defrost can be terminated by shorting "X to N"



Scan to see complete ICM offering

ICM Universal Motor Start Relay

- Replacement for all standard potential relays
- Patented differential voltage sensing
- 50A switching capabilities
- .250" quick connect termination
- Motor power rating: Up to 10 HP
- Universal mounting bracket for easy installation
- Safety time out: approximately 1-second per 100 microfarads
- Consumption: 5VA max.
- Insulation: Class B (130°C); Conforms to IEC 1000- standards (6kV impulse / 6kV contact)
- Input:
- Voltage Rating: 110-270 VAC, Single Phase
- Maximum Voltage Contact Rating: 502 VAC (absolute)



Motor Protection Controls

Single and 3 Phase



- Monitors front and back side
- **Fully programmable**
- Line Voltage: 190-600VAC
- 25 fault memory, self-diagnostic, type and location
- Auto reset 0-10 retries or manual

Time Delay Relays and Timers



ICM103

- · Highly precise digital timing
- Switch-settable time delays
- Ideal for ice machine applications
- Universal voltage operation
- · Repeat accuracy .5% over voltage and temperature range

PACKARD STOCKS OVER 160 ICM PRODUCTS! VISIT PACKARDONLINE.COM FOR FULL PRODUCT OFFERING.

UMSR-50B-LF

Gas Ignition Controls OEM Replacements



ICM2902

- · Intermittent pilot gas ignition control
- For use with intermittent pilot boilers, furnaces and other heating appliances
- Microprocessor-based precision



ICM283

- Low cost replacement HSI control for Honeywell, Robertshaw and **White Rodgers**
- Single/Dual rod sensing capabilities
- For gas fired furnaces

Programmable i3 Series

Touch Thermostats



12020WR

- Large Display: Touch icons positioned off display for larger viewing area; keeps display clean of fingerprints
- Buttonless/Switchless Front: No mechanical buttons or switches to break or wear
- Dynamic Interface: Highly intuitive patent-pending! Icons illuminate ONLY when they are needed

Furnace Controls

OEM Replacements



ICM292

- Direct Spark Ignition (DSI) control board
- Microprocessor-based
- Controls induced draft and indoor blower motors; humidifier output, spark igniter and gas valve
- . Monitors timing, trial for ignition, flame sensing and lockout
- 100% lockout safety feature
- Compatible with LP or Natural Gas
- Status LEDs for fault codes to aid in troubleshooting

Surge Protector



ICM517

- Single-phase
- Limited lifetime protection warranty
- Type 2 surge protective devices
- 120 240 VAC
- Metal, NEMA type 3r rated enclosure
- Quality built with TMOVs
- Waterproof/fireproof enclosure
- LED status indicators

ELECTRICAL - TORQSTART®



Two Wire Electro-mechanical Voltage Sensing Relay

Features

- Potential relay and start capacitor for compressor hard start applications
- More reliable than PTC type hard starts
- Two wire connection
- For use with Reciprocating or Scroll compressors
- Quick connect terminals
- Bleed down resister to safely discharge the capacitor

TorQstart® EM								
Capacitor Pick-Up Max. Coil Direct Item ID Size (μF) Tons Compressor Voltage (VAC) Voltage (VAC) Replacement For								
TQS1	189-227	1.5 - 3	Recip & Scroll	239-268	502	T0-5, SK3W3		
TQS2	270-324	3.5 - 5	Recip & Scroll	280-315	502	KS1, SK3W6S		





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



Standard PTC Relay & Hard Start Capacitor

Features

- Increases compressor starting torque for faster recycling
- For all permanent split capacitor, single phase air conditioning and heat pump systems
- Wired with "Piggy-Back" terminals for easy installation
- Designed for 115 volt thru 240 volt systems
- Mounts easily with either screw or clip

TorQstart [®] ST							
Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Direct Replacement For			
TQS5	115-240	1/2 to 10	300%	32701 600-057 SPP5			
TQS6	115-240	1/2 to 10	500%	32702 600-052 SPP6			
TQS8	115-240	1/2 to 10	600%	32708 SPP7S			



All Purpose 3-N-1 Kit

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

TorQstart® AP							
Item ID	Compressor Sizes	Volts	Direct Replacement For				
TQS21	1/2 HP	115	600-210 RC0210				
TQS41	1/4 and 1/3 HP	115	600-410 RCO410				
TQS81	1/12 thru 1/5 HP	115	600-810 RC0810				



HITAN **MULTI-RATED RUN CAPACITOR**

QUALITY WITHOUT THE EXCESS

Titan FX® – the ultimate inventory enhancing multi-rated, run capacitor designed with today's technician in mind. Reduce inventory and eliminate multiple trips to the job site with this cost effective, easy to install capacitor.



	MFD	Overall Height
Item ID	Combination	(ln.)
TFX17.5	2.5 / 5 / 10	5.25
TFX45	5 / 10 / 30	6.25
TFX50	5 / 10 / 35	6.75
TFX60	5 / 25 / 30	7.25
TFX65	5 / 10 / 50	8.25
TFX85	5 / 10 / 70	8.25

FEATURES

- Rated voltage: 440/370
- Tolerance +/- 5% @ 60Hz
- New segmented film increases reliability
- Quick connect terminals
- Comes with marking pen, jumper wires & easy to follow installation diagram
- Titan FX® carries a 5 year warranty

Scan the QR code to download the Titan FX® App!





THE RELIABILITY LEADER IN CAPACITORS

TITAN HD® MOTOR RUN CAPACITORS

Longevity you can count on; craftsmanship to be proud of.



Titan HD[®] Capacitor Offering:

- Single and dual ratings
- Round and oval shapes
- Voltage: 370 & 440/370
- Heavy Duty
- 60,000 Hours



SINGLE •		Can	Industry	No.'s
Item ID	MFD	Size	USA M	ade
Single - T	itan	HD	370 Volt	
POC3A	3	1		14003
POC5A	5	1		14005
POC7.5A	7.5	1		14007
POC10A	10	2	USA2037	14008
POC12.5A	12.5	2		14009
POC15A	15	3		14010
POC20A	20	3		14014
POC25A	25	3		14015
POC70A	70	13		14089
POC80A	80	13		14090
Single - T	itan	HD	440/370 V	/olt
POCF3A	3	1	USA2027	14027
POCF5A	5	1	USA2029	14029
POCF7.5A	7.5	2	USA2031	14031
POCF10A	10	3	USA2035	14032
POCF12.5A	12.5	3	USA2037	14033
POCF15A	15	3		14034
POCF20A	20	3	USA2026	14037
POCF25B	25	3	USA2040	14040
POCF35A	35	4		14043
POCF45A	45	13		14048

SINGLE	•	Can	Industr	y No.'s
Item ID	MFD	Size	USA	Made
Single -	Titan	HD	370 Volt	
PRC20A	20	1		14214
PRC25A	25	1		14215
PRC30A	30	1		14217
PRC35A	35	3		14218
PRC40A	40	3		14821
PRC45A	45	3		14823
PRC50A	50	4		14225
PRC60A	60	4		14227
PRC80A	80	8		14199
PRC100A	100	12		
Single -	Titan	HD	440/370 V	olt/
PRCF20A	20	1	USA2211	14237
PRCF25A	25	3	USA2212	14240
PRCF30A	30	3	USA2213	14241
PRCF35A	35	4	USA2214	14243
PRCF40A	40	4	USA2215	14245
PRCF45A	45	4	USA2216	14248
PRCF50A	50	8	USA2217	14251
PRCF60A	60	8	USA2219	14254
PRCF70A	70	10	USA2228	14258
PRCF80A	80	10	USA2229	14259

DUAL 🔵			ustry No.'s
Item ID	MFD	Can Size	USA Made
Dual - Titan	HD 37	0 Volt	
POCD1010A	10+10	5	
POCD205A	20+5	12	14063
POCD305A	30+5	13	14069
POCD355A	35+5	13	14072
POCD3575A	35+7.5	8	14149
POCD405A	40+5	13	14171
POCD455A	45+5	13	14174
POCD4510A	45+10	13	14136
POCD505A	50+5	13	14138
POCD6010A	60+10	14	14157
Dual - Titan	HD 44	0/370	Volt
POCFD305A	30+5	13	14187
POCFD355A	35+5	10	14185
POCFD3510A	35+10	10	
POCFD405A	40+5	14	14086
POCFD4010A	40+10	14	
POCFD455A	45+5	14	14190
POCFD505A	50+5	15	
POCFD555A	55+5	15	0
POCFD605A	60+5	15	
POCFD805A	80+5	16	14297

	DUAL •			Industry I	No.'s
	Item ID	MFD	Can Size	USA Ma	de
	Dual - Titar	HD :	370 Y	Volt	
	PRCD255A	25+5	6		14261
	PRCD305A	30+5	6		14264
J	PRCD355A	35+5	6		14266
	PRCD3510A	35+10	6		
	PRCD405A	40+5	6		14178
	PRCD455A	45+5	6		14269
	PRCD4510A	45+10	6		
	PRCD503A	50+3	6		
	PRCD505A	50+5	6		14191
邑	PRCD555A	55+5	8		14193
	Dual - Titar	HD 4	440/	370 Volt	
	PRCFD305A	30+5	6	USA2226	14281
	PRCFD355A	35+5	8	USA2227	14283
	PRCFD405A	40+5	8	USA2235	14286
	PRCFD455A	45+5	8	USA2236	14288
<u>-</u>	PRCFD4575A	45+7.5	8	USA2233	14289
	PRCFD505A	50+5	8	USA2237	14290
ו	PRCFD555A	55+5	12	USA2240	14292
	PRCFD605A	60+5	12	USA2220BA	14294
	PRCFD705A	70+5	15	USA2221	14255
5	PRCFD805A	80+5	15	USA2222BA	14257



Oval/Round Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Dimensions are subject to change. When dimensions are critical, please call.



TITAN PRO

NOT ALL CAPACITORS ARE BUILT THE SAME. TAKE IT TO THE PRO LEVEL.



SINGLE						
		Depth	Width	- 5		
Item ID	MFD	(ln.)	(ln.)	(ln.)	Indust	ry No.'s
Single - 1	Γitan	Pro® 4	40/370	Volt		
TOCF5	5	1.24	2.03	2.17	12029	12005
TOCF7.5	7.5	1.24	2.03	2.17	12031	12007
TOCF10	10	1.24	2.03	2.56	12032	12008
TOCF12.5	12.5	1.24	2.03	2.95	12033	12009
TOCF15	15	1.24	2.03	2.95	12034	120105
TOCF20	20	1.77	2.80	2.68	12037	12014
TOCF25	25	1.77	2.80	3.07	12040	12015
TOCF35	35	1.77	2.80	3.86	12043	12018
TOCF40	40	1.77	2.80	4.06	12045	12021
TOCF45	45	1.77	2.80	4.45	12048	12023
Single - 1	Γitan	Pro 37	0® 370	Volt		
TOC3	3	1.24	2.03	2.17		12903
TOC4	4	1.24	2.03	2.17		12904
TOC5	5	1.24	2.03	2.17		12905
TOC5B*	5	1.24	2.03	2.17		12905
TOC7.5	7.5	1.24	2.03	2.17		12902
TOC10	10	1.24	2.03	2.56		12908
TOC10B*	10	1.24	2.03	2.56		12908
TOC12.5	12.5	1.24	2.03	2.95		12909
TOC15	15	1.24	2.03	2.95		12910
TOC20	20	1.77	2.80	2.68		12914

DUAL						
DUAL		Depth	Width	Height		
Item ID	MFD	(ln.)	(ln.)	(ln.)	Industr	y No.'s
Dual - Tita	n Pro	440/	370 V	olt		
TOCFD255	25+5	1.77	2.80	3.46	12184	12066
TOCFD305	30+5	1.77	2.80	3.86	12187	12069
TOCFD353	35+3	1.77	2.80	4.25	12085	12148
TOCFD355	35+5	1.77	2.80	4.25	12185	12072
TOCFD3575	35+7.5	1.77	2.80	4.25	12188	12149
TOCFD405	40+5	1.77	2.80	4.65	12086	12171
TOCFD455	45+5	1.77	2.80	5.04	12190	12174
TOCFD505	50+5	1.87	3.54	4.37	12108	12138
TOCFD555	55+5	1.87	3.54	4.57	12275	12154
TOCFD605	60+5	1.87	3.54	5.55	12109	12139
Dual - Tita	n Pro	370® 3	370 V	olt		
TOCD55	5+5	1.77	2.80	2.09		-
TOCD1010	10+10	1.77	2.80	2.87		_
TOCD155	15+5	1.77	2.80	2.68		12957
TOCD153	15+3	1.77	2.80	2.87		12841
TOCD255	25+5	1.77	2.80	3.07		12966
TOCD305	30+5	1.77	2.80	3.27		12969
TOCD353	35+3	1.77	2.80	3.46		12848
TOCD355	35+5	1.77	2.80	3.46		12972
TOCD405	40+5	1.77	2.80	3.86		12871
TOCD455	45+5	1.77	2.80	4.25		12874
1000455	45+5	1.//	2.80	4.25		12874

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SINGLE					
OHIOLL		Depth	Width		
Item ID	MFD	(ln.)	(ln.)		ry No.'s
Single -	Titan	Pro®	440/370	Volt	
TRCF20	20	1.77	2.95	12237	12217
TRCF25	25	1.97	2.95	12240	12215
TRCF30	30	1.97	3.35	12241	12217
TRCF35	35	1.97	3.54	12243	12218
TRCF40	40	1.97	3.94	12245	12221
TRCF45	45	1.97	4.33	12248	12223
TRCF50	50	1.97	4.72	12251	12225
TRCF60	60	2.17	4.53	12254	12227
TRCF70	70	2.17	4.92	12258	12229
TRCF80	80	2.50	4.72	12259	12199
Single -	Titan	Pro 3	70 [®] 370	Volt	
TRC7.5B*	7.5	1.77	2.17		12997
TRC20	20	1.77	2.95		12714
TRC25	25	1.77	2.95		12715
TRC30	30	1.97	2.76		12717
TRC35	35	1.97	2.95		12718
TRC40	40	1.97	3.35		12721
TRC50	50	1.97	3.74		12725
TRC60	60	1.97	4.33		12727
TRC80	80	1.97	5.31		12899
TRC100	100	2.50	4.33		12116

DUAL		5 "	180 141		
Item ID	MFD	Depth (ln.)	Width (In.)	Indust	ry No.'s
Dual - Tita			370 Volt	maao	
TRCFD305	30+5	1.97	3.94	12281	12264
TRCFD355	35+5	1.97	4.13	12283	12226
TRCFD405	40+5	2.36	3.54	12286	12178
TRCFD455	45+5	2.50	3.74	12228	12269
TRCFD4575	45+7.5	2.50	3.74	12289	12249
TRCFD505	50+5	2.50	3.94	12290	12191
TRCFD555	55+5	2.50	4.13	12292	12193
TRCFD805	80+5	2.50	5.31	12257	12197
TRCFD705	70+5	2.50	4.92	12255	12053
TRCFD7075	70+7.5	2.50	4.92	12255	12053
Dual - Tita	ın Pro	370®	370 Volt		
TRCD255	25+5	1.97	3.35		12761
TRCD305	30+5	1.97	3.54		12764
TRCD353	35+3	1.97	3.94		12730
TRCD355	35+5	1.97	3.94		12766
TRCD405	40+5	1.97	4.13		12878
TRCD455	45+5	1.97	3.94		12769
TRCD505	50+5	1.97	4.72		12755
TRCD555	55+5	2.50	3.74		12893
TRCD605	60+5	2.50	4.13		12895
TRCD805	80+5	2.50	4.72		12897

FEATURES:

- 60,000 Hours of operating life
- Single and dual ratings
- Round and oval shapes
- Voltage: 370 or 440 (VAC)

Oval/Round Notes:

- Height dimension does not include terminals. Add 1/2" for terminals.
- Dimensions are subject to change. When dimensions are critical, please call. *Bulk in multiples of 100







WHEN DEPENDABILITY IS A MUST...

- ELECTRICAL ENDURANCE Tested up to 250,000 cycles
- LONG MECHANICAL LIFE
 Tested up to 1,000,000 cycles
- COMPACT FOOTPRINT
 Makes it ideal for AC applications
 versus other contactors

- MULTIPLE CONFIGURATIONS

 Available in 1+, 2, 3 and 4 Poles
- FULLY ENCLOSED BODY Thermoplastic housing keeps it free of dirt and bugs for maximum endurance





ADDITIONAL FEATURES

- REMOVABLE COVER
 MOUNTING LUGS ON ALL CONFIGURATIONS
- ACCEPTS AUXILIARY SWITCHES
- SUPERIOR COPPER COIL
- UNIVERSAL MOUNTING PLATE
- MEETS ARI 780/790 STANDARD

TITAN MAX® HAS YOU COVERED

CROSS REFERENCE

	DI	ROP	IN	
	FU	RN	AS	3
RI	EPL	ACE	ME	NT

Item ID	F/L Inductive Amps	Locked Rotor Amps 240/480/600	Resistive Amps	Coil Voltage	Industry No.	R	EPLACEMENT		Accepts Aux. Switch*
Titan Max 1 Pole									
TMX125A2	25	150/125/100	35	24		45DG10AJA			
TMX125B2	25	150/125/100	35	120		45DG10AFA			
TMX125C2	25	150/125/100	35	208-240		45DG10AGA			
TMX130A2	30	180/150/120	40	24	61720	45EG10AJA	45EG10AJAL		
TMX130B2	30	180/150/120	40	120	61721	45EG10AFA	45EG10AFAL		
TMX130C2	30	180/150/120	40	208-240	61722	45EG10AGA	45EG10AGAL		
TMX140A2	40	240/200/160	50	24	61730	45GG10AJA	45GG10AJAL		
TMX140B2	40	240/200/160	50	120	61731	45GG10AFA	45GG10AFAL		
TMX140C2	40	240/200/160	50	208-240	61732	45GG10AGA	45GG10AGAL		
Titan Max 2 Pole	25	150/125/100	25	24		42454541	45DC2041		
TMX225A2	25	150/125/100	35	24		42AF15AJ	45DG20AJ		
TMX225B2	25	150/125/100	35	120		42AF15AF	45DG20AF		
TMX225C2	25	150/125/100	35	208-240		42AF15AG	45DG20AG		
TMX230A2	30	180/150/120	40	24	61745	42BF15AJ	45EG20AJ	45EG20AJL	
TMX230B2	30	180/150/120	40	120	61746	42BF15AF	45EG20AF	45EG20AFL	
TMX230C2	30	180/150/120	40	208-240	61747	42BF15AG	45EG20AG	45EG20AGL	
TMX240A2	40	240/200/160	50	24	61755	42CF15AJ	45GG20AJ	45GG20AJL	
TMX240B2	40	240/200/160	50	120	61756	42CF15AF	45GG20AFL		
TMX240C2	40	240/200/160	50	208-240	61757	42CF15AG	45GG20AG	45GG20AGL	
Titan Max 3 Pole									
TMX330A2	30	180/150/120	40	24	61430	42BF35AJ			Yes
TMX330B2	30	180/150/120	40	120	61431	42BF35AF			Yes
TMX330C2	30	180/150/120	40	208-240	61432	42BF35AG			Yes
TMX340A2	40	240/200/160	50	24	61445	42CF35AJ			Yes
TMX340B2	40	240/200/160	50	120	61446	42CF35AF			Yes
TMX340C2	40	240/200/160	50	208-240	61447	42CF35AG			Yes
TMX350A2	50	300/250/200	65	24	61460	42DF35AJ			Yes
TMX350B2	50	300/250/200	65	120	61461	42DF35AF			Yes
TMX350C2	50	300/250/200	65	208-240	61462	42DF35AG			Yes
TMX360A2	60	360/300/240	75	24	61470	42EF35AJ			Yes
TMX360B2	60	360/300/240	75	120	61471	42EF35AF			Yes
TMX360C2	60	360/300/240	75	208-240	61472	42EF35AG			Yes
TMX375A2	75	450/375/300	90	24	61480	42FE35AJ106			Yes
TMX375B2	75 75	450/375/300	90	120	61481	42FE35AF106			Yes
TMX375C2	75	450/375/300	90	208-240	61482	42FE35AG106			Yes
TMX390A2	90	540/450/360	120	24	61490	42GE35AJ106			Yes
TMX390B2 TMX390C2	90 90	540/450/360 540/450/360	120 120	120 208-240	61491 61492	42GE35AF106 42GE35AG106			Yes
Titan Max 4 Pole	90	340/430/300	120	208-240	01492	42GE33AG100	_	_	Yes
	20	100/150/120	40	24		42DE2541			Vee
TMX430A2	30	180/150/120	40	24		42BF25AJ			Yes
TMX430B2	30	180/150/120	40	120		42BF25AF			Yes
TMX430C2 TMX440A2	30 40	180/150/120	<u>40</u> 50	208-240 24		42BF25AG 42CF25AJ			Yes
TMX440B2	40	240/200/160 240/200/160	50	120		42CF25AJ 42CF25AF			Yes Yes
TMX44062	40	240/200/160		208-240		42CF25AF 42CF25AG			Yes
I MIX44UCZ	4 0	Z4U/ZUU/ 10U	50	200-240		4 2CF23AU			I 162

^{*}Flexible auxiliary switch options allow you to select any of the Titan Max auxiliary switches depending on your application. TMX1NC (SPST NC), TMX1NO (SPST NO), TMX2NC (DPST NC), TMX2NO (DPST NO), TMX1NC/NO (DPST 1NC + 1NO), TMXSPDT1 (SPDT - left position), TMXSPDT2 (SPDT - right position), TMX2SPDT (2xSPDT) will fit any 3 pole, 30 – 60 Amp Titan Max contactor. TMX7590NO (SPST NO), TMX7590NC (SPST NC), TMX7590SPDT (SPDT) will fit any 3 pole, 75 – 90 Amp Titan Max contactor.



ELECTRICAL - DITEK®



Ditek Single Phase Surge Protectors



PSP72KA

- Weatherproof enclosure
- · Parallel connection for easy installation
- Diagnostic LED provides positive indication of power, ground presence, and surge protection
- Automatically resets to handle multiple surge events
- Typical Applications: A/C disconnect, small electrical panels, pool/well pumps
- Half the response time as similar models
- NEMA 4 rated on the housing

Item ID	Service Wiring	Surge Current Rating	MCOV	Voltage Protection Rating	Short Circuit Current Rating	Nominal Discharge Current Rating	Direct Replacement For
PSP72KA	Split Φ (2W + G), 120/240VAC	50,000A	150/320V	700V L-G, 1,200V L-L	10,000A	10,000A	SMC60 SMC150



PSP38VDC

- Voice, Data and Signaling circuit surge protection
- Adds no resistance to loop circuits
- #22-#16 AWG screw terminal connections
- For 24 volt service



Item ID	Protection Mode	Surge Current Rating	MCOV	Max Continuous Current	Clamping Voltage	Direct Replacement For
PSP38VDC	Line-Ground	2,000 Amps/Pair (5-48V) 9,000 Amps/Pair (75-130V)	38VDC	5A, 0.5A (SCP)	47V	SYCST027B



WARNING: Cancer - www.P65Warnings.ca.gov

Ditek CMXPLUS 3 Phase Surge Protectors



- NEMA 4X enclosure allows for use in harsh environments
- Parallel connection for easy installation
- Flexible Lockstrap

- Diagnostic LED indicates system power and function
- Automatically resets to handle multiple surge events

Item ID	Description	Service Voltage	Phase	Type
DTK-2403CMXPLUS	Packard Surge Protector	208/240VAC	3	SPD Type 1
DTK-4803CMXPLUS	Packard Surge Protector	480VAC	3	SPD Type 1
DTK-6003CMXPLUS	Packard Surge Protector	600VAC	3	SPD Type 1

OVER 1000 ITEMS IN STOCK!

Description

Littelfuse SLC fuses provide cost effective branch circuit protection. Fuse length varies to prevent over-fusing. Compact Class G fuses were the first fuse series to approach midget fuse dimensions and meet NEC® requirements for branch-circuit protection.



CLASS CC FUSES -CCMR, KLDR, KLKR, KLKD

- Compact design is ideal for space saving protection
- · High-interrupting capacity and excellent current-limitation



CLASS R FUSES - FLNR, FLSR

Features

- · High short-circuit current rating
- Dual-element design
- · Available with and without indication



CLASS T FUSES - JLLN, JLLS

- Extremely current-limiting
- 200 kA interrupting rating



CLASS J FUSES - JTD

- Superior time-delay and cycling characteristics
- Available with and without indication





CONTROLS - TRANSFORMERS

Transformers - Foot & Multi-Mount



















TF12440A

TF22440A

TF40224A

TF40310EMA

TF40350A

TF42440A

TF42450A







TM12440A



TM32440A



TM44450A



TM52460A



TM524100A



Item ID	Primary Voltage	VA Rating	Secondary Rating	Mounting Option	Connection	Direct Replacement For	
TF12440A	120V	40	24V	Foot	Wire Lead	AT140A1000, AT140B1206	
TM12440A	120V	40	24V	Multi	Wire Lead	90-4011M	
TF40310EMA	120/208/240V	40	24V	Foot	1/4" Spade Terminal	GT40310EM, 46-101905-01	
TF42440A	120/208/240V	40	24V	Foot	Wire Lead	AT140A1018, AT40A1121	
TF22440A	208/240V	40	24V	Foot	Wire Lead	AT40A1139, AT40B1032	
TF40224A	208/240V	40	24V	Foot	1/4" Spade Terminal	0130M00138, 14262087	
TM32440A	120/208/240V	40	24V	Multi	Wire Lead	90-4021M, AT140A1026	
TF40350A	120/208/240V	50	24V	Foot	Wire Lead	GT5031F, 46-102856-02	
TF42450A	120/208/240/480V	50	24V	Foot	Wire Lead	GT5041C	
TM44450A	120/208/240V	50	24V	Multi	Primary - Wire Lead, Secondary - Screw Terminal	AT150A1007, 90-5031M	
TM52460A*	120/208/240V	60	24V	Multi	Wire Lead	GT6041C, UET160	
TF52475A*	120/208/240/480V	75	24V	Foot	Wire Lead	90-T75C3, GT7541C	
- TM524100A*	120/208/240/480V	100	24V	Multi	Wire Lead	GT10041C	















HEATING SEASON - 2022

Packard

	Teetin is			Jeconiaan) naming	and an	Commedian	Direct iteplacement of	
	PF42420	120/208/240	20VA	24	Foot	Wire Lead	Jard 2031F UET 114	
	PF12440	120	40VA	24	Foot	Wire Lead	Jard 4011F	
ווכוממבר	PF42440	120/208/240	40VA	24	Foot	Wire Lead	Jard 4031F UET 115	
meni idad	PF40224	208/240	40VA	24	Foot	Terminals	Goodman 013M00138S	
9	PM44450	120/208/240	50VA	24	Multi	Wire Lead/Term	Jard 5031M UET 150	118
NOTES.	PF52475F	120/208/240/480	75VA	24	Foot	Wire Lead	Jard 7541M UET 175	118

SIEMENS

BUILDING TECHNOLOGIES & CONTROLS PRODUCTS ARE STOCKED AND READY TO BE ADDED TO YOUR ORDERS



BUILDING **TECHNOLOGIES**

Component Controls: Sensors and Thermostats

Damper **Actuators** Valves and **Actuators**

Pneumatic Controls

Variable Frequency Drives



Switches

Breakers

Relays

Modules

Accessories/Replacements Parts

Enclosures

Motor Starters

Contactors

Transformers

PLATE HEAT EXCHANGERS - KELVION®



Kelvion

Brazed Plate Heat Exchangers for Refrigeration and Other Cooling Solutions

Model Series	Description	Capacity (Single Heat Exchanger) (1)			
CH and GBS Series	Chillers	1 through 80 Tons			
C and GBS Series	Condensers	1 through 80 Tons			
SC and GBS Series	Subcoolers	1 through 120 Tons			
2C (Two Circuit)	Chiller, Condenser	3 through 80 Tons; -XP available for R410A			
(1) More than one heat exchanger can be installed in series or parallel for larger capacity					

Hydronic Fluid-to-Fluid Plate Heat Exchangers

Full thickness 316L copper brazed plates

GBS400H-14 (V1,V2) B

GBS400H-20 (W1,W2) B

GBS400H-30 (W1,W2) B

· Mounting studs included

 Ideal for residential and commercial applications such as radiant, snow melt

(40))		and domestic hot water
		Model Series	Description	Capacity (Single Heat Exchanger)
		GBS Series (2)	Fluid-to-Fluid	Up to 15" x 34" and 360 plates
		GBS-L Series (2)	Liquid Low Pressure Drop	5" x 12" and 10" x 20" dimensions
	6	GB-DW (Double Wall)	Potable water, safety, oil cooling	5" x 12" and 5" x 20" up to 100 plates
6	60	GBE (Economy) Series	Water heating, hydraulics	Up to 5" x 20" and 100 plates
		GF & NT Series	Gasketed Plate-and-Frame	Large capacity industrial applications
		(2) Replaces FlatPlate an	d GEA FP/FG/FW Series brazed plates	_
	0 1	9		
6	9	ltem ID	Descrip	tion
	6 6	GBS400	H-06 (V1,V2) B 3/4" MP1	Copper Brazed Plate Heat Exchanger
		GBS400	H-12 (V1,V2) B 3/4" MPT	Copper Brazed Plate Heat Exchanger

Please call for additional sizes and fittings.

UL listed and ASME Section VIII available

3/4" MPT Copper Brazed Plate Heat Exchanger

1" MPT Copper Brazed Plate Heat Exchanger

1" MPT Copper Brazed Plate Heat Exchanger

Quality product selection for quick delivery of popular items and countless special order options.

KELVION, INC., IS A LEADING MANUFACTURER OF BRAZED AND GASKETED PLATE HEAT **EXCHANGERS FOR THE REFRIGERATION,** HYDRONIC AND INDUSTRIAL MARKETS.

HEATING SEASON - 2022

KELVION® - PLATE HEAT EXCHANGERS

Kelvion



Corrosion-Resistant Plate Heat Exchangers

Model Series	Description	Capacity (Single Heat Exchanger)*
GNS Series (Nickel Brazed)	Deionized water, laser cooling	Up to 10" x 20" and 150 plates; -XCR upgrade to 254SMO stainless plates
GVH Series (VacInox Brazed)	Potable water, laser cooling, district heating	Up to 10" x 20" and 150 plates -XCR upgrade to 254SMO stainless plates
GNS-AE and GVH-AE Series	Ammonia evaporator & condenser; corrosive fluid applications	Up to 10" x 20" and 150 plates
GF & NT Series	Gasketed Plate-and-Frame	Large capacity industrial applications



Gasketed Plate Heat Exchangers - GF & NT Series

Features

- · Versatile use in all industries, including refrigeration, heating and marine
- · Wide selection of plate types and sizes, including titanium and double wall
- Can be taken apart for cleaning and repair in harsh operating conditions
- · Add or remove plates to adjust capacity



BUILT TO ORDER - CONTACT DIVERSITECH FOR PART NUMBERS AND PLATE SELECTION.

Mounting Brackets

- · Most Kelvion brazed plate heat exchangers are equipped with mounting studs which allow the use of our proprietary mounting brackets. Making it much easier to complete those sweat connections.
- Bracket is made of AISI 304 stainless steel



Disconnects-Metal Case





Fused model designed with fuses in pull out handle for easy replacement. The line, load, and ground terminals are aligned for ease of wiring. The side open door opens more than 180 degrees for maximum access and has a full dead front. The fused models have indicator lights for blown fuses. This is rain tight and sleet resistant. The UL Listed number is IRF9, NEMA Type 3R and the US Patent is 6,630,637.

Item ID	Description	UOM	Order Multiple
DDS-30	30A Fusible Disconnect Switch	EA	10
DDS-60	60A Fusible Disconnect Switch	EA	10
DDS-60U	60A Non-Fusible Disconnect Switch	EA	10

Disconnects-Non-Metallic Case



This 60 amp non-fusible disconnect is housed in a lightweight, non-metallic case. It features a side opening door with more than 180° access, full dead front, and a locking tab.

Item ID	Description	UOM	Order Multiple
750-P60NF	60A Non Fusible Disconnect Switch, Non-Metallic Case, Plastic	EA	10

Low Profile Disconnects-Metal Case



This low profile disconnect switch is a slightly smaller design than that of the standard DiversiTech disconnects. This has a side opening door with a full dead front. This is rain tight and sleet resistant. The UL Listed number is IRF9, NEMA Type 3R.

Item ID	Description	UOM	Order Multiple
EDS-60U	60A Non-Fusible Disconnect Switch	EA	10
EDS-12-6NM	Disconnect and Whip Combo Kit	EA	3



Disconnects - Metallic





Features

- Non-fused pullout
- Rated NEMA 3R for outdoor use
- Line, load, and ground terminals aligned for easy hook up with heavy wires
- Full dead front
- Knockouts accommodate three sizes (1/2", 3/4", and 1")
- Rear, bottom and side entry knockouts
- Heavy gauge steel case
- Large internal wiring space
- Individually wrapped in boxes of 6
- Folding pivot locking tab

Item ID	Description	Fused
PD60NF	60 Amp Non Fused Metal	No
PD30F	30 Amp Fused Metal	Yes
PD60F	60 Amp Fused Metal	Yes

Dimensions (LxWxH): 8.77 x 5.45 x 3.18

Disconnects - Non-Metallic



Features

- · Amperage rating: 30 and 60A
- Rated NEMA 3R for outdoor use
- Non-fused pullout
- Standard 1/4" head screw on dead front
- Plastic non-metallic enclosures have a single unit door and protective shield for installer convenience
- Plastic non-metallic enclosures are durable and provide excellent weather resistance
- Rear, bottom and side entry knockouts
- Individually wrapped in boxes of 6
- Great for salt air regions

Item ID	Description	Fused
PD-NM-60NF	60 Amp Non Fused Plastic	No
PD-NM-30F	30 Amp Fused Plastic	Yes
PD-NM-60F	60 Amp Fused Plastic	Yes

Dimensions (LxWxH): 8.81 x 6.26 x 4.39

Molded Case Switch Disconnect

The DDS-60SW Molded Case Switch Disconnect is rugged and easy to use like an ordinary light switch. It eliminates the pullout handle used in traditional AC disconnects and is easy to install. It is UL listed and rated for indoor and outdoor applications with NEMA 3R rating.

Item ID	Description	UOM	Order Multiple
DDS-60SW	Molded Case Switch Disconnect, 60A 240 VAC	EA	10





3 Pole Switch for Mini-Splits

Three-pole, 30 Amp, 600 Volt rated disconnect switch provides safe, reliable manual ON/OFF switching control for Mini-splits and HVAC systems. This switch meets the local code requirements of breaking both the power lines (L1 and L2) and the communication line of the mini-split's indoor unit for service.

Item ID	Description	UOM	Order Multiple
755-303SW	3 Pole Switch for Mini-Splits	EA	1



Whips (Non-Metallic and Metallic)

Applications

 Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment



- 600 volt; Intended for single phase circuits
- 12" conductor leads with 1/2" insulation stripped
- Stranded copper THHN/THWN insulated singles; green insulated copper grounding conductor
- Highly flexible non-metallic conduit with factory installed conductors

- Liquid tight flexible non-metallic conduit type B (LFNC-B) fittings for easy and hassle-free hook-ups
- Straight connector on one end and 90 degree connector on the other end
- Non-metallic raceway is non-conducting and resistant to rust, cracks, and separation
- · Completely assembled; delivered from the factory ready to install

Item ID					
Non-Metallic	Metallic	Trade Size (In.)	Conduit Length (feet)	Wire Size	Amps
PW1204	PW1204M	1/2	4	#10 AWG	30
PW1206	PW1206M	1/2	6	#10 AWG	30
PW3484	PW3484M	3/4	4	#8 AWG	40
PW3486	PW3486M	3/4	6	#8 AWG	40



Mini-Split Kit

- Non-metallic electrical whip 1/2"x 4' (MSK001 & MSK002)
- Non-metallic electrical whip 1/2"x 6' (MSK001-6)
- 5/8" Drain Hose (MSK002)
- Disconnect 60 Amp non-fused metallic
 - Non-fused pullout
 - Rated NEMA 3R for outdoor use
 - Line, load, and ground terminals aligned for easy hook up with heavy wires
 - Rear, bottom and side entry knockouts
 - Heavy gauge steel case
 - Large internal wiring space
- Ditek Surge protector PSP72KA
 - Weatherproof enclosure
 - Parallel connection for easy installation
 - Diagnostic LED provides positive indication of power, ground presence and surge protection
 - Automatically resets to handle multiple surge events
 - Typical Applications: A/C disconnect, small electrical panels, pool/well pumps
 - Half the response time as similar models
- · Wall sleeve and fitting



Item ID	Description
MSK001	Mini Split Kit (Includes 4' Whip)
MSK001-6	Mini Split Kit (Includes 6' Whip)
MSK002	Mini Split Kit 2 (Includes 5/8" Drain Hose)

DiversiWhips





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 degree metallic or non metallic connector. 90 degree connector is removable for straight connections. (Second straight connector not included.) U.L. and C.U.L Listed.

Item ID	Connector Type	Trade Size (In.)	Conduit Length (feet)	Wire Size #	Amps	Direct Replacement For
6-12-4	Metallic	1/2	4	10	30	PW1204M
6-12-6	Metallic	1/2	6	10	30	PW1206M
6-34-4	Metallic	3/4s	4	8	40	PW3484M
6-34-6	Metallic	3/4	6	8	40	PW3486M
6-34-8	Metallic	3/4	8	8		_
6-12-4NM	Non-Metallic	1/2	4	10	30	PW1204
6-12-6NM	Non-Metallic	1/2	6	10	30	PW1206
6-34-4NM	Non-Metallic	3/4	4	8	40	PW3484
6-34-6NM	Non-Metallic	3/4	6	8	40	PW3486
6-34-8NM	Non-Metallic	3/4	8	8		_
6-12-6NMS	2 Non-Metallic Straight Connectors	1/2	6	10		_
6-34-6NMS	2 Non-Metallic Straight Connectors	3/4	6	8		_
6-12-6NM-2	2-piece Non-Metallic Connectors, with 2-PC fittings	1/2	6	10		_
6-34-6NM-2	2-piece Non-Metallic Connectors	3/4	6	8		_

^{*}For DiversiWhips produced with 2 straight connectors, add S to part number (ex: 6-12-4S)

DiversiWhips Pallet Packs



DiversiWhips are now available in a convenient, bulk packaged pallet pack at a discounted price. Pallet pack makes an attractive floor standing display. 1 straight and 1 90 degrees metallic or non metallic connector.

Item ID	Description	UOM	Order Multiple
B6-12-4	1/2 x 4′ #10 THHN Wire — Metallic Connectors	EA	90
B6-12-6	1/2 x 6′ #10 THHN Wire — Metallic Connectors	EA	60
B6-34-6	3/4 x 6′ #8 THHN Wire — Metallic Connectors	EA	45
B6-12-4NM	1/2 x 4′ #10 THHN Wire — Non-Metallic Connectors	EA	90
B6-12-6NM	1/2 x 6′ #10 THHN Wire — Non-Metallic Connectors	EA	60
B6-34-4NM	3/4 x 4' #8 THHN Wire — Non-Metallic Connectors	EA	60
B6-34-6NM	3/4 x 6′ #8 THHN Wire — Non-Metallic Connectors	EA	45

NOTE: Item numbers in RED indicate Made in the U.S.A.



DiversiWhip - Up to 30 Amp

An economical whip for applications up to 30 Amp. A labor saving convenience kits for A/C hookup, heat pumps, refrigeration, hot tubs, swimming pools and outdoor lighting. One straight and one 90 degree non-metallic connector included.

Item ID	Description	UOM	Order Multiple
6-12-6NMP	1/2" x 6' #12 THHN Wire — Non-Metallic Connectors, Up to 30 Amp	EA	6

DIVERSITECH



DiversiWhips with Extended Length Wires

DiversiWhips are available with extra long lead wires for those difficult to wire applications. These whips offer 10in. of lead wire on the straight side and 18in. of lead wire on the 90 degree side.

Item ID	Description	UOM	Order Multiple
6-12-6NMR	1/2 x 6'#10 THHN Wire — Non-Metallic Connectors	EA	6
6-34-6NMR	3/4 x 6′ #8 THHN Wire — Non-Metallic Connectors	EA	6



DiversiWhips for the Swimming Pool Industry

A labor saving kit for hookup of swimming pool motors, pumps, filters, and timers. Three distinct wire colors for ease of hookup. 1 straight and 1 90 degree non-metallic connector included.

Item ID	Description	UOM	Order Multiple
6-12-4NMSP	1/2" x 4' #10 THHN Wire — In Box	EA	6
6-12-6NMSP	1/2" x 6′ #10 THHN Wire — In Box	EA	6
6-34-4NMSP	3/4" x 4′ #8 THHN Wire — In Box	EA	6
6-34-6NMSP	3/4" x 6′ #8 THHN Wire — In Box	EA	6
Solid Wire Whip	s		
6-12-4NMSWP	1/2" x 4′ #12 Solid 3 Wire — Non-Metallic Connectors	EA	6
6-12-6NMSWP	1/2" x 6' #12 Solid 3 Wire — Non-Metallic Connectors	EA	6
6-12-8NMSWP	1/2" x 8' #12 Solid 3 Wire — Non-Metallic Connectors	EA	3





Commercial Refrigeration Thermostats

Packard

The Packard tube mounted thermostats cover a wide range of commercial refrigeration applications including walk-ins, reach-ins, and beverage coolers. Long lead wires and multiple tube diameter options cover a wide range of popular brands.

- Epoxy encased switches for moisture protection
- Mounts directly to tube with included clip
- Two and three wire models available
- UL Registered





Item Number	Mounting Dia. (in.)	Open (°F)	Close (°F)	Switch Type	Lead Length (in.)
PRT2030	3/4	20	30	SPST	24/48
PRT205	3/4	20	5	SPST	40
PRT2060	5/8	20	60	SPST	35
PRT355	5/8	35	5	SPST	55
PRT3555	3/8	35	55	SPST	21
PRT4020	5/8	40	20	SPST	36
PRT4025	5/8	40	25	SPST	12
PRT5030	5/8	50	30	SPST	36
PRT5035	1/2	50	35	SPDT	19
PRT6520	5/8	65	20	SPDT	19
PRT7020	5/8	70	20	SPDT	19

COMPRESSORS - A/C & REFRIGERATION















Capacity Offering

REFRIGERATION



AIR CONDITIONING



Nominal Horse Power (Tons)	R12 Recip.	R134A Recip.	R404A/ R507 Recip.	R404A/ R507 Scroll	R290* Recip.
1/10	•	•			
1/8	: 250 DTU				
1/6	350 BTU	: 442 DTU			
1/5	to 5,000 BTU	113 BTU	•		•
1/4	3,000 BTU	to 11,882 BTU			
1/3	ė	11,002 DIU	702 BTU		702 BTU
1/2			to		to
3/4			11,984 BTU	•	12,000 BTU
1		ė			i
1-1/4					*Available
1-1/2				9,700 BTU	by request
2				to	only.
2-1/2				45,200 BTU	•
3				:	
3-1/2					
4					
5					
6					

Nominal Horse Power (Tons)	R22/ 407C Recip.	R410A Recip.	R22/ 407C Recip.	R410A Scroll
1				
1-1/2	•			
2		•		•
2-1/2		: 16,200 BTU	•	
3		to 28,300 BTU		
3-1/2		20,300 B10		: 15,000 BTU
4	12,000 BTU to	ė	: 21,000 BTU	to 54,000 BTU
4-1/2	72,500 BTU		to 62,000 BTU	34,000 BT0
5			02,000 B10	
5-1/2				
6			•	•
6-1/2	•			

Must be installed by a licensed contractor.

RECIPROCATING - COMPRESSORS

Reciprocating Compressors





The Bristol line of reciprocating compressors is designed for easy drop-in installation for air conditioning and heat pump applications. The compressors are designed for use with R22 or R407C refrigerants and are charged with P0E oil for versatility.

- Single phase and three phase options
- Quick connect wiring connections
- Mounting hardware and terminal cover included
- Internal crankcase heaters included where noted

Item ID	Nominal H.P	Volts-Phase-Hertz	Capacity (BTU)	Mounting (in.)	Discharge I.D. (in.)	Suction I.D. (in.)	ССН
H2EB18SABCBP	1-1/2	208/230-1-60	17600	4 x 8	3/8"	5/8"	NO
H2EB18SABCBP	2	208/230-1-60	21900	7.5 x 7.5	3/8"	5/8"	NO
H2EB18SABCBP	2	208/230-1-60	23700	7.5 x 7.5	1/2"	3/4"	NO
H2EB18SABCBP	2	208/230-1-60	23700	4 x 8	3/8"	5/8"	NO
H2EB18SABCBP	2-1/2	208/230-1-60	28300	7.5 x 7.5	1/2"	3/4"	NO
H2EB18SABCBP	1-1/4	208/230-1-60	15500	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	1-1/2	208/230-1-60	18300	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	2	208/230-1-60	22700	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	2	208/230-1-60	24300	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	2-1/2	208/230-1-60	28900	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	2-1/2	208/230-1-60	32000	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	3	208/230-1-60	35700	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	3-1/2	208/230-1-60	41000	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	4	208/230-1-60	44400	7.5 x 7.5	1/2"	3/4"	YES
H2EB18SABCBP	4-1/2	460-3-60	53500	7.5 x 7.5	1/2"	7/8"	YES
H2EB18SABCBP	5	208/230-1-60	55700	7.5 x 7.5	1/2"	7/8"	YES
H2EB18SABCBP	5	460-3-60	58500	7.5 x 7.5	1/2"	7/8"	YES
H2EB18SABCBP	5	460-3-60	60800	7.5 x 7.5	1/2"	7/8"	YES
H2EB18SABCBP	5	208/230-1-60	60800	7.5 x 7.5	1/2"	7/8"	YES

TITAN FORCE® - COOLING SOLUTIONS

TITAN



RECIPROCATING A/C COMPRESSOR

FEATURES

- POE Oil
- For R22 and R410A Designed System Replacement
- PSC motors are standard in all single-phase compressor models
- BTU capacity ratings are based on 45°F evaporating temperature
- Mounting hardware included
- Molded plug included for most models

APPLICATIONS

Air Conditioning
 Heat Pump







Item ID	Nominal H.P.	Volts-Phase-HZ	Capacity (BTU)	Foot (In.)	Discharge I.D. (In.)	Suction I.D. (In.)	ССН	Height (In.)	Functional Replacement for Bristol	Copeland CR
R410A MODE	LS									
TFH5516BXN	1-1/4	208/230-1-60	16,200	7.5 x 7.5	3/8	5/8	No	13.672	H82J183ABCA	-
TFH5520BXN	1-3/4	208/230-1-60	20,200	7.5 x 7.5	3/8	5/8	No	13.672	H82J213ABCA	-
TFH5525BXN	2	208/230-1-60	25,750	7.5 x 7.5	3/8	5/8	No	13.672	H82J283ABCA	-
TFH5528BXN	2	208/230-1-60	28,300	7.5 x 7.5	3/8	5/8	No	13.672	H82J283ABCA, H82J323ABCA	-

^{*}Verify mounting configuration





REFRIGERATION - COMPRESSORS



Embraco Refrigeration Compressors





ELECTROLUX

DIRECT REPLACEMENTS FOR WHIRLPOOL, GE AND

- Triple duty compressors that may be used in low, medium and high temperature applications (direct replacements for Copeland and Tecumseh)
- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment
- BTU ratings are in ASHRAE conditions

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				<u>BTU</u>				I.D. Discharge	I.D. Suction	Direct Replacement For	
	Item ID	Nominal H.P.	Volts-Phase-Hertz	LT @ -10°F	MT @ 20°F	HT @ 45°F	Foot (In.)	Size (In.)	Size (In.)	Tecumseh	Copeland
	R12 BLEND										
•	EMI30ER1	1/10	115-1-60	350	_	_	4 x 6.5*	3/16	1/4	_	_
•	EMI45ER1	1/8	115-1-60	485	_	_	4 x 6.5*	3/16	1/4	_	_
3	EMI55ER1	1/6	115-1-60	570	_	_	5.91 X 5.67*	1/4	5/16	_	_
j	FFC60BK1	1/5+	115-1-60	756	1644	2573	4 x 6.5*	1/4	5/16	_	_
3	FF8.5BK1	1/5	115-1-60	850	1759	3080	4 x 6.5*	1/4	5/16	AEA3430AXA	_
1	FF10BK1	1/4	115-1-60	915	1908	3240	4 x 6.5*	1/4	5/16	AEA3430AXA	_
	FF11.5BK1	1/4	115-1-60	1130	1893	4000	4 x 6.5*	1/4	5/16	_	_
-	FFI12BX1	1/3	115-1-60	1350	2142	5000	4 x 6.5*	1/4	5/16	AEA4440AXA	ARE41C3-IAA (HST) JFB1-0033-IAA (HST)

				BTU				I.D. Discharge	I.D. Suction		placement For
	Item ID	Nominal H.P.	Volts-Phase-Hertz	LT @ -10°F	MT @ 20°F	HT @ 45°F	Foot (In.)	Size (In.)	Size (In.)	Tecumseh	Copeland
	R134A										
	EMIS30HHR1	1/10	115-1-60	340	950	1480	4 x 6.5*	3/16	1/4	AEA0335YXA	_
	EM45HHR1	1/8	115-1-60	420	1053	1775	4 x 6.5*	3/16	1/4	AZA0350YXA	_
	EMI55HER1	1/6	115-1-60	510	_	_	4 x 6.5*	3/16	1/4	THG1358YXA	
	EM65HHR1	1/6+	115-1-60	_	_	2600	4 x 6.5*	1/4	1/4	_	_
	FF7.5HBK1	1/5	115-1-60	630	1622	2760	4 x 6.5*	1/4	5/16	AEA1360YXA AEA3425YXA	ARB13C3E-SAA
	EMIS70HHR1	1/5	115-1-60	700	1829	_	4 x 6.5*	1/4	1/4	_	-
	FF8.5HBK1	1/4	115-1-60	740	1745	3135	4 x 6.5*	1/4	5/16	AEA3430YXA	AF05C1E-SAA (LST)
	FF8.5HBK1C**	1/4	115-1-60	740	1745	3135	4 x 6.5*	1/4	5/16	AEA4430YXA	ARE27C3E-IAA
	FF10HBX1	1/4+	115-1-60	840	_	3650	4 x 6.5*	1/4	5/16	_	_
	NEK6160Z1	1/4	115-1-60	_	_	2884	4 x 6.5*	3/16	1/4	_	_
	NEK6170Z1	1/4	115-1-60	_	_	3336	4 x 6.5*	3/16	1/4	_	_
	FF10HBK1	1/4+	115-1-60	840	1995	3530	4 x 6.5*	1/4	5/16	_	_
•	NE2134Z1	1/4	115-1-60	1452	_	_	4 x 6.5*	1/4	5/16	AEA2413YXA	AFE12C3E-IAA
•	FFI10HBX1	1/3	115-1-60	1065	2038	4400	4 x 6.5*	1/4	5/16	AEA4440YXA AEA3440YXA	ARE37C3E-IAA
	NEK6187Z1	1/3	115-1-60	_	_	3830	4 x 6.5*	1/4	5/16	_	_
	FFI12HBX1	1/3+	115-1-60	1190	2886	5300	4 x 6.5*	1/4	5/16	AEA4448YXA	ARE41C3E-IAA
	NEK6212Z1	1/2	115-1-60	_	_	5178	4 x 6.5*	1/4	5/16	AEA4448Y	ARE46C4E
	NT6215Z1	1/2+	115-1-60	_	3705	6626	4.8 x 8.0*	1/4	3/8	AKA4460YXA	RRT62C1-IAA
	NEK6214Z1	3/4	115-1-60	_	_	5960	4 x 6.5*	1/4	5/16	_	_
	NT6217Z1	3/4	115-1-60	_	3909	7460	4.8 x 8.0*	1/4	3/8	AKA4476YXA	ART64C1E-IAA
	NT6217Z2	3/4	208/230-1-60	_	3909	7579	4.8 x 8.0*	1/4	3/8	AKA4460YXD	ART64C1E-IAV
	NJ6220Z1	1	115-1-60	_	_	10169	4.8 x 8.0*	5/16	3/8	_	AR84C1E-IAA
	NT6220Z1	1	115-1-60	_	5730	8514	4.8 x 8.0*	1/4	3/8	AJA4492*X*	_
	NT6220Z2	1	208/230-1-60	_	6325	8351	4.8 x 8.0*	1/4	3/8	AJA4492*X*	<u> </u>
	× A I I'' I		c .: 1		FFO FURIAL						

^{*} Additional mounting configurations on base plate. **FF8.5HBK1C includes start capacitor. Cross reference comparisons do not imply that all products compared are exact in reference to form, fit and function. Review specifications carefully prior to purchase.





EMBRACO® - COOLING SOLUTIONS

Features

- Direct replacement compressors for Whirlpool, GE and Electrolux appliances
- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment

					BTU					Direct Rep	placement for
				LT @	MT @	HT@		I.D. Discharge	I.D. Suction		
	Item ID	Nominal H.P.	Volts-Phase-Hertz	-10°F	20°F	45°F	Foot (In.)	Size (In.)	Size (In.)	Tecumseh	Copeland
	R404A										
	NEK2121GK1	1/3	115-1-60	1212	_	_	4 x 6.5	3/16	1/4		
	NEK2125GK1	1/3	115-1-60	1455	_	_	4 x 6.5*	1/4	5/16	AEA2411ZXA	AFE11C4E-IAA
	NEK2134GK1	1/2	115-1-60	1947		_	4 x 6.5*	1/4	5/16	AJA2419ZXA	AFE13C4E-IAA
	NEK2134GK2	1/2	208/230-1-60	1858	_	_	4 x 6.5*	1/4	5/16	AJA2419ZXA	AFE13C4E
	NEK6210GK1	1/2	115-1-60	_	_	5355	4 x 6.5*	1/4	5/16		ASE26C4E
	NEK2150GK1	1/2+	115-1-60	2448	_	_	4 x 6.5*	1/4	5/16	AJA2425ZXA	AFE17C4E-IAA
	NT2168GKV1	3/4	115-1-60	2628	_	_	4.8 x 8.0*	1/4	3/8	AJA2425ZXA	AFT22C1E-IAA
	NT2168GKV2	3/4	208/230-1-60	2694	_	_	4.8 x 8.0*	1/4	3/8	AJA2425ZXD	AFT22C1E-CAV
S	NT2180GKV1	1	115-1-60	3892	_	_	8 X 4.8	*1/4	*3/8		
Z	NEK6181GK1	1/3+	115-1-60	_	_	4389	4 x 6.5	3/16	1/4		
404	NEK6181GK2	1/3+	208/230-1-60	_	2612	4404	4 x 6.5	3/16	1/4		
œ	NEK6213GK1	1/2+	115-1-60	_	_	6660	4 x 6.5	3/16	1/4		
	NT6220GKV1	3/4	115-1-60	_	_	8464	4.8 x 8.0*	1/4	3/8	AWA9490Z	RST45C1E
	NT6222GKV2	1	208/230-1-60	_	_	9992	4.8 x 8.0*	1/4	3/8	AWA9512Z	RST55C1E
	NT6224GKV2	1	208/230-1-60	_	_	11984	4.8 x 8.0*	1/4	3/8		
	NT2180GKV2	1	208/230-1-60	3962	_	_	4.8 x 8.0*	1/4	3/8	AJA2425ZXD	AFT296C1E-CFV
	NJ2192GK1	1 1/4	115-1-60	4500	_	_	4.8 x 8.0*	5/16	1/2		
	NJ2192GK2	1 1/4	208/230-1-60	4502	_	_	4.8 x 8.0	5/16	1/2	AJA2444ZXD	AFJ31C2E-CFV
	NT2212GKV1	1 1/2	115-1-60	5629	_	_	4.8 x 8.0*	1/4	3/8	AWA2460Z	AFJ37C2E
	NT2212GKV2	1 1/2	208/230-1-60	5710	_	_	4.8 x 8.0*	1/4	3/8	AWA2460ZXD	RS86C1E-PFV

APPLICATIONS

LBP	LOW BACK PRESSURE	APPLICATION			
	Evaporating temperature between -35 °C/ -31 °F and -10 °C/ 14 °F	refrigerators, island coolers. etc.			
MDD	MEDIUM BACK PRESSURE	APPLICATION			
MBP	Evaporating temperature between -15 °C/ 5 °F and 0 °C/ 32 °F	self-service coolers, beverage display, etc.			
НВР	HIGH BACK PRESSURE	APPLICATION			
ПВР	Evaporating temperature between 0 °C/ 32 °F and 15 °C/ 59 °F	self-service coolers, GDM, wine cooler, etc.			



ILDI CONDI	TEST CONDITIONS											
TEST CONDITIONS	APPLICATION	EVAPORATING TEMPERATURE °C / °F	CONDENSING TEMPERATURE °C / °F	RETURN TEMPERATURE °C / °F	SUB - COOLING K	AMBIENT TEMPERATURE °C / °F						
ASHRAE	LBP	-23.3 / 10	54.4 / 130	32.2 / 90	22.2	32.2 / 90						
	м/нвр	7.2 / 45	54.4 / 130	35 / 95	8.3	35 / 95						
	LBP	-23.3 / -10	48.9 / 120	4.4 / 40	0	35 /95						
ARI	МВР	-6.7 / 20	48.9 / 120	4.4 / 40	0	35 /95						
	НВР	7.2 / 4.5	54.4 / 130	18.3 / 65	8.3	35 /95						

COOLING TYPE

STATIC (S)	Compressors approved for static cooling are those that don't allow operation of a fan motors associated with the condenser.
FAN (F)	Compressors approved for forced cooling are those that requiere the operatio of a fan motors associated with the condenser.
STATIC/FAN (E/F)	Compressors approved for static and forced cooling are those which may or may not be used with fan motors associated with the condenser.





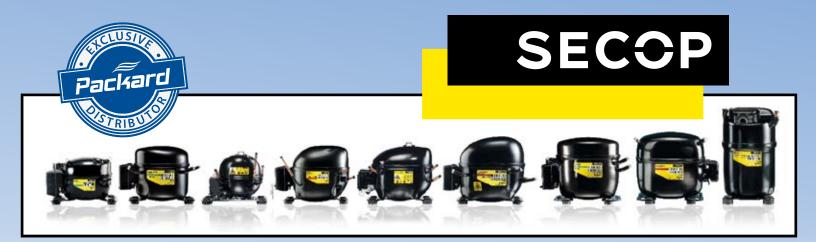
NT Model

Warning: CANCER-www.P65Warnings.ca.gov



FRACTIONAL - COMPRESSORS

Fractional Horsepower Compressors





The expert in advanced compressor technologies

> **DIRECT REPLACEMENT FOR Danfoss**

> UNIVERSAL REPLACEMENT COMPRESSORS FOR

Whirlpool, GE & Electrolux appliances

FEATURES:

- Replacement compressors for food service equipment, vending machines, bottle coolers, ice machines and other refrigeration equipment
- Additional mounting configurations on base plate
- Warranty: 1 year from installation or return no later than two years from manufacturer date - whichever comes first
- For use with low, medium and high back pressure
- Compact construction
- Durable housing
- Optimized motor technology
- Wide voltage range

- Low noise and high energy efficiency
- Robust in tough operating conditions

HEATING SEASON - 2022

BTU ratings based on ASHRAE conditions

SECOP® - REFRIGERATION SOLUTIONS

		BTU LT@	DTII MT	BTU HT@		
	ltem ID	(-10/130°F)	BTU MT@ (20/130°F)	(45/130°F)	Volts-Phase-HZ	Nominal H.P.
	R-134a	(10/1501)	(20/1301)	(+5/ 150 1)	VOICS THUSE TIZ	Nominar II.I.
	BD35F212	100-168			12-24VDC 50/60HZ	N/A
	BD35F510	100-168			12-24VDC & 100-240VAC 50/60HZ	N/A
	BD50F212	142-245			12-24VDC & 100-240VAC 50/0011Z	N/A
	BD50F510	142-245			12-24VDC & 100-240VAC 50/60HZ	N/A
	BD80F390	188-368			100-240VAC 50/60HZ	N/A
	PL35G-2	100 300	406		220/240-1-50/60	1/10
	PL50F-1	175	388		115-1-60	1/10
	TL2.5F-1	202	466		115-1-60	1/10
	TL2.5G-2	202	100		220/240-1-50/60	1/10
	TL3G-2	228			220/240-1-50/60	1/10
	TL3F-1	253	639		115-1-60	1/10
	TL4G-1	306		1369	115-1-60	1/10
	TL5G-2	427			220/240-1-50/60	1/8
	TFS4.5FT-1	477			115-1-60	1/8
	NL6.1MF-2	501	1300		208/230-1-60	1/8
	FR7.5G-2	546			220/240-1-50/60	1/8
⊴	FR8.5G-2	658			220/240-1-50/60	1/8+
R134A	FF8.5GX-1	662	1570	2842	115-1-60	1/8+
7	NF5.5FX-1	695	1442		115-1-60	1/8+
\propto	FF10GX-1	716		3147	115-1-60	1/4
	NF6.1FX.2-1	721	1541		115-1-60	1/4
	FR10G-2	730			220/240-1-50/60	1/4
	NF7FX-1	858	1703		115-1-60	1/4
	NF7.3FX.2-1	892	1857		115-1-60	1/4+
	NF9FX-1	935	1907		115-1-60	1/4+
	SC12G-1	972	2588	4730	115-1-60	1/4+
	NF10FX-1	1046	2123	F 40.6	115-1-60	1/4+
	SC15G-1	1241	3040	5496	115-1-60	1/3
	SC15FTX-1	1550			115-1-60	1/3+
	SC15FT-2 SC18G-1	1541 1357	3479	6200	220/240-1-50/60	1/3+ 1/3
	SC21G-2	1558	34/9	0200	115-1-60 220/240-1-50/60	1/3+
	NF11FX.2-1	1571	2700		115-1-60	1/3+
	SC21FTX-2	2179	2700		208/230-1-60	1/3+
	SC15GH-2 *	2179		5398	220/240-1-50/60	1/2+
	SC18GH-2 *			6237	220/240-1-50/60	1/2+
	R-404A/R507			VLJI	220/270 1 JU/00	1/4 1
	TF4CLX-1	702	1285		115-1-60	1/8
	TFS4.5CLX-1	926			115-1-60	1/8
	NF5.5CLX-1	1376	2209		115-1-60	1/4
	SC10CL-1	1420	3096		115-1-60	1/4
	NF7CLX-1 SC10CLX-2	1716 2001	2789 4092		115-1-60 220/240-1-50/60	1/2 1/2
	SC12CL-1	2374	4072		115-1-60	1/2
R404A	SC12CLX.2-1	2466			115-1-60	1/2+
7	SC12CLX.2-2	2746			220/240-1-50/60	1/2+
4	SC15CLX.2-1	3000			115-1-60	3/4
	SC15CLX.2-2 SC18CLX.2-1	3005 3656			208/230-1-60 115-1-60	3/4 3/4
	SC18CLX.2-1	3797			208/230-1-60)/ 1
	SC12MLX-2	3,7,1	4247		208/230-1-60	1/2+
	SC12MLX-1		4391		115-1-60	1/2+
	SC15MLX.2-1		5120		115-1-60	3/4
	SC15MLX.2-2 SC18MLX-1		5538 6296		208/230-1-60 115-1-60	3/4 3/4+
	*Heat Pump Compressor		0290		Must be installed by a licer	
	rical Fullip Complessor				iviusi be ilistalled by a licer	is c u contractor

REFRIGERATION SCROLLS - COMPRESSORS

MEDIUM TEMP REFRIGERATION SCROLLS!



POE OIL CHARGED!



NEW

External thermal sensor protects the scroll mechanism from overheating



A relief valve that opens to protect against high internal pressure

				Capacity					
		Nominal		(BTU) @20°F Evap./	Discharge	Suction		Direct Replacement	
	Item ID	H.P	Volts-Phase-Hertz	120°F Cond.	Line I.D.	Line I.D.	MFD/Volts	For Copeland	For Heatcraft
	R404A, R507, R407A, R407C, R448A, R449A								
	MPA010KAA	1 1/4	208/230-1-60	9700	1/2	3/4"	30/370	ZS09KAE-PFV	21518201
1	MPA010RAA	1 1/4	208/230-3-60	9600	1/2	3/4"	N/A	ZS09KAE-TF5	21518202
כ	MPA010SAA	1 1/4	460-3-60	9650	1/2	3/4"	N/A	ZS09KAE-TFD	21518203
t	MPA013KAA	13/4	208/230-1-60	12500	1/2	3/4"	35/370	ZS13KAE-PFV	21518204
1440A	MPA013RAA	13/4	208/230-3-60	12700	1/2	3/4"	N/A	ZS13KAE-TF5	21518205
	MPA013SAA	13/4	460-3-60	12700	1/2	3/4"	N/A	ZS13KAE-TFD	21518206
[MPA015KAA	2	208/230-1-60	15200	1/2	3/4"	40/370	ZS15KAE-PFV	21518207
2	MPA015RAA	2	208/230-3-60	14900	1/2	3/4"	N/A	ZS15KAE-TF5	21518208
5	MPA015SAA	2	460-3-60	14900	1/2	3/4"	N/A	ZS15KAE-TFD	21518209
14101	MPA019KAA	2 1/4	208/230-1-60	16900	1/2"	3/4"	45/370	ZS19KAE-PFV	21518210
	MPA019RAA	2 1/4	208/230-3-60	16800	1/2"	3/4"	N/A	ZS19KAE-TF5	21518211
	MPA019SAA	2 1/4	460-3-60	16800	1/2"	3/4"	N/A	ZS19KAE-TFD	21518212
5	MBA021KAA	23/4	208/230-1-60	22400	1/2"	7/8"	55/370	ZS21KAE-PFV	21518213
) †	MBA021RAA	23/4	208/230-3-60	22400	1/2"	7/8"	N/A	ZS21KAE-TF5	21518214
	MBA021SAA	23/4	460-3-60	22400	1/2"	7/8"	N/A	ZS21KAE-TFD	21518215
í	MBA026KAA	3	208/230-1-60	25000	1/2"	7/8"	55/370	ZS26KAE-PFV	21518216
	MBA026RAA	3	208/230-3-60	24800	1/2"	7/8"	N/A	ZS26KAE-TF5	21518217
	MBA026SAA	3	460-3-60	24800	1/2"	7/8"	N/A	ZS26KAE-TFD	21518218
7	MBA029KAA	3 1/2	208/230-1-60	27700	1/2"	7/8"	60/440	ZS29KAE-PFV	21518219
	MBA029RAA	3 1/2	208/230-3-60	27800	1/2"	7/8"	N/A	ZS29KAE-TF5	21518220
3	MBA029SAA	3 1/2	460-3-60	27700	1/2"	7/8"	N/A	ZS29KAE-TFD	21518221
	MBA033KAA	4	208/230-1-60	31100	1/2"	7/8"	80/440	ZS33KAE-PFV	21518222
	MBA033RAA	4	208/230-3-60	31300	1/2"	7/8"	N/A	ZS33KAE-TF5	21518223
ř	MBA033SAA	4	460-3-60	31300	1/2"	7/8"	N/A	ZS33KAE-TFD	21518224
F	MRA038KAA	4 1/2	208/230-1-60	37000	1/2"	7/8"	80/440	ZS38K4E-PFV	21518225
5 I	MRA038RAA	4 1/2	208/230-3-60	37200	1/2"	7/8"	N/A	ZS38K4E-TF5	21518226
į	MRA038SAA	4 1/2	460-3-60	37800	1/2"	7/8"	N/A	ZS38K4E-TFD	21518227
	MRA045RAA	5 1/4	208/230-3-60	45100	1/2"	7/8"	N/A	ZS45K4E-TF5	21518228
	MRA045SAA	5 1/4	460-3-60	45200	1/2"	7/8"	N/A	ZS45K4E-TFD	21518229

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

SQUARE MOUNT FOR A QUICK AND EASY INSTALL \rightarrow

Must be installed by a licensed contractor.



AIR CONDITIONING SCROLLS!

Features

- Quiet start-up and shut-down: sound is minimized by a check valve in the discharge port of the scroll sets
- Discharge Temperature Protection (DTP): External thermal sensor protects against excessively high scroll temperatures
- Internal Pressure Relief (IPR): Relief valve opens at very high internal pressures protecting the unit
- Internal Motor Overload Protection (OLP): Thermal switch senses high temperature of the compressor motor windings





Discharge check valve



Thermal switch protects the compressor motor from overheating

	Item ID	Nominal H.P.	Volts-Phase-Hertz	Capacity (BTU)	Discharge Line I.D.	Suction Line I.D.	Run Capacitor MFD/Volts	Direct Replacement For Copeland
	R22, R407C SQA022KAZ	1-3/4	208/230-1PH-60	21500	1/2	3/4	35/440	ZR21K5-PFV, ZR22K4PFV
)	SQA026KAZ	2+	208/230-1PH-60	26100	1/2	3/4	35/440	ZR25K5-PFV
)	SQA032KAZ	2-1/2	208/230-1PH-60	32300	1/2	3/4	45/440	ZR32K5-PFV, ZR30K3PFV
!	SQA038KAZ	3	208/230-1PH-60	37000	1/2	3/4	50/440	ZR38K5-PFV, ZR36K3PFV
ì	SQA042KAZ	3-1/2	208/230-1PH-60	41200	1/2	3/4	50/440	ZR42K5-PFV, ZR40K3PFV
	SR047KBZ	4	208/230-1PH-60	47600	1/2	7/8	60/440	ZR48K5-PFV
	SRA053KAZ	4-1/2	208/230-1PH-60	53500	1/2	7/8	70/440	ZR54K5-PFV
	SR057KCZ	4-3/4	208/230-1PH-60	58000	1/2	7/8	70/440	ZR57K3-PFV
	SR061RBZ	5	208/230-3PH-60	62000	1/2	7/8	N/A	ZR61K3-TF5



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		GEN 1		GEN 2						Direct
GE	N 1	Capacity	GEN 2	Capacity	Nominal		Discharge	Suction	Run Capacitor	Replacement For
Ite	em ID	(BTU)	Item ID	(BTU)	H.P.	Volts-Phase-Hertz	Line I.D.	Line I.D.	MFD/Volts	Copeland
R4	10A									
AF	PB016KAA	15200	APG016KACS	15500	1-1/2	208/230-1-60	1/2	3/4	35/370	ZP16K5EPFV
AF	PB020KAA	19500	APG020KACS	20000	2	208/230-1-60	1/2	3/4	35/370	ZP20K5EPFV
AF	PB024KAA	22500	APG024KBCS	23500	2+	208/230-1-60	1/2	3/4	40/370	ZP24K5EPFV
AP	PA032KAA	30500	APG031KACS	30800	3	208/230-1-60	1/2	3/4	45/440	ZP29K5EPFV, ZP31K5EPFV
AF	PA032RAA	30000	APG031RACS	30300						
AF	PA032WAA	30000	APG031WACS	30000						
AC	QA034KAA	34100	ABG034KACS	34350	3	208/230-1-60	1/2	7/8	45/440	ZP34K5EPFV
AC	QA036KAA	36000	ABG036KACS	36000	3+	208/230-1-60	1/2	7/8	45/440	ZP36K5EPFV, ZP38K5EPFV
AC	QAO42KAA	41500	ABG042KACS	42000	4	208/230-1-60	1/2	7/8	70/440	ZP42K5EPFV
AC	QA042RAA	41500	ABG042RACS	41500						
AC	QA042WAA	41500	ABG042WACS	41500						
AF	BA051KAC	51500	ABG051KACS	51000	5	208/230-1-60	1/2	7/8	75/440	ZP51K5EPFV
AF	BA051RAA	51500	ABG051RACS	51000						
AE	BA051WAA	51500	ABG051WACS	51000						
AE	BA054KAA	54000	n/a		5+	208/230-1-60	1/2	7/8	80/440	ZP54K5EPFV
AE	BA054RAB	54500	n/a		5+	208/230-3-60	1/2	7/8	_	ZP54K5ETF5
AF	BA054WAB	54000	n/a		5+	460-3-60	1/2	7/8	_	ZP54K5ETFD

GEN 1 models are phasing out to GEN 2 models

SQUARE MOUNT FOR A QUICK AND **EASY INSTALL**

COMPONENTS - FILTER DRIERS

NDL® Liquid Line - NCH Series Suction Line - NCHSF Series, Bi-Flow Line - NCHBF Series

FITTING YOUR NEEDS

Features

- Solid Core (Suction Line XH-11 also in Beaded)
- XH-11 Desiccant- Recommended for R410A and others - will not remove R32 component
- 70/30 combination desiccant and activated alumina 0.080 gm
- Pure copper ends that are extended
- Furnace brazed in Oxygen free environment no rust and adds strength to the fitting end
- End connection plating uses an electro-less nickel plating
- 3 basket shaped honey comb perforated plates are used to minimize pressure drop to the system
- Black Powder coat paint to withstand a 1000-hour salt spray test
- Packaged under positive pressure 30 to 40 PSIG







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				Flow Capacity Tan @ 1psi ΔP (for kw multiply Ton by 3.5					
	Item ID	Conn. Size	Cubic In.	Conn. Type	Length In.	R-134a	R-22 & R-410A	R-407C	R-404A & R-507
	NCH-032F	1/4"	3	Flare	2.64	2	2	2	1.42
	NCH-032S	1/4"	3	Sweat	2.64	-	-	_	2
	NCH-052F	1/4" 1/4"	5	Flare	3.07	2	2.28	2.28	1.42
	NCH-052S NCH-053F	3/8"	5 5	Sweat Flare	3.07 3.07				
	NCH-0535	3/8"	5	Sweat	3.07	5.14	5.42	5.42	4
	NCH-082F	1/4"	8	Flare	3.90	_	2.20	2.20	4.42
	NCH-082S	1/4"	8	Sweat	3.90	2	2.28	2.28	1.42
	NCH-083F	3/8"	8	Flare	3.90	5.42	6	6	4
	NCH-083S	3/8"	8	Sweat	3.90	J. 4 2	U	U	7
	NCH-084F	1/2"	8	Flare	3.90	7.42	8.28	8.28	5.71
	NCH-084S NCH-163F	1/2" 3/8"	8 16	Sweat Flare	3.90 4.80				
<u>5</u>	NCH-1635	3/8"	16	Sweat	4.80	6.2	6.8	6.8	4.57
iquid Line	NCH-164F	1/2"	16	Flare	4.80				
	NCH-164S	1/2"	16	Sweat	4.80	8.5	9.4	9.4	6.2
	NCH-165F	5/8"	16	Flare	4.80	12.2	13.4	13.4	8.57
	NCH-165S	5/8"	16	Sweat	4.80	12.2	13.4	13.4	0.37
	NCH-303F	3/8"	30	Flare	7.48	6	6.57	6.57	4.28
	NCH-303S	3/8"	30	Sweat	7.48	•	0.07	0.5.	.,_0
	NCH-304F NCH-304S	1/2" 1/2"	30 30	Flare Sweat	7.48 7.48	8.85	9.71	9.71	6.28
	NCH-3045	5/8"	30	Flare	7.48				
	NCH-305S	5/8"	30	Sweat	7.48	12.85	14	14	9.42
	NCH-307S	7/8"	30	Sweat	7.48	17.71	19.42	19.42	12.85
	NCH-415F	5/8"	41	Flare	7.80	15.14	16.57	16.57	10.57
	NCH-415S	5/8"	41	Sweat	7.80				
	NCH-417S	7/8"	41	Sweat	7.80	26	28.57	28.57	18.57
	NCHSF-164S NCHSF-165S	1/2" 5/8"	16 16	Sweat Sweat	4.80 4.80	8.5	9.4	9.4	6.2
	NCHSF-166S	3/6 3/4"	16	Sweat	4.80	12.2	13.4	13.4	8.57
Suction Line	NCHSF-167S	7/8"	16	Sweat	4.80	12.2	.5.1	.5.,	0.57
ictio Line	NCHSF-306S	3/4"	30	Sweat	7.48				
25	NCHSF-307S	7/8"	30	Sweat	7.48	17.71	19.42	19.42	12.85
	NCHSF-309S	1 1/8"	30	Sweat	7.48				
	NCHSF-419S	1 1/8"	41	Sweat	7.80	26	28.57	28.57	18.57
Flow	NCHBF-083S NCHBF-084S	3/8" 1/2"	8	Sweat	3.82 3.82	4.6	5.1	5	3.4
<u>ю</u>	NCHBF-0843	3/8"	8 16	Sweat Sweat	4.61	5.73 4.75	6.7 5.2	6.6 5.1	4.41 3.66
Ē Ē	NCHBF-164S	1/2"	16	Sweat	4.61	7.43	8.1	5.1 7.9	5.41
<u></u>	NCHBF-165S	5/8"	16	Sweat	4.61	7.43	8.7	8.5	5.64
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HEATING SEASON - 2022

ADJUSTABLE PRESSURE CONTROL - COMPONENTS

Saginomiya® Pressure Controls





- Designed with contractor input
- Fingertip reset
- High visibility contrast scale
- Durable, rust proof plastic cover
- Universal mounting bracket
- Snap action switch
- Easy to maintain and access contacts
- · Large connector area
- Easy, direct replacements for most competitor controls
- Finger-tip test for contact operation



	Operating Pressure (PSI)		Contact	tact				
Item ID	(Off / On)	Reset	System	Range (PSI)	Differential (PSI)	Max Pressure(PSI)		
Single Rated								
SNS-C1C106YQ13	Off at 20 / On at 40	Automatic	SPDT	-20 to 85	8.5 to 55	213		
SNS-C1C106YM2Q2	Off at 20 / manual reset	Manual	SPDT	-20 to 85	~14	213		
SNS-C1C106YQ12	Off at 20 / On at 40	Automatic	SPDT	-20 to 85	8.5 to 55	213		
SNS-C1C106YM2Q1	Off at 20 / manual reset	Manual	SPDT	-20 to 85	~14	213		
SNS-C1C110YQ2	Off at 62 / On at 90	Automatic	SPDT	15 to 140	15 to 45	213		
SNS-C1C110YQ1	Off at 62 / On at 90	Automatic	SPDT	15 to 140	15 to 45	213		
SNS-C1C130YQ11	Off at 200 / On at 300	Automatic	SPDT	70 to 425	42 to 145	470		
SNS-C1C130YQ10	Off at 200 / On at 300	Automatic	SPDT	70 to 425	42 to 145	470		

Item ID Dual Rated	Operating Pressure (PSI) (Low Side On/Off // High Side On/Off)	Reset	Contact System	Range {PSI} (Low Side/ High Side)	Differential (PSI) (Low Side/High Side)	Max Pressure (PSI)
DNS-C1D306YQ11	Low: On at 40 / Off at 20 // High: On at 241 / Off at 300	Automatic	DPDT	-20 to 85 / 100 to 425	8.5 to 55 / 43 & 71	213 / 470
DNS-C1D306YQ10	Low: On at 40 / Off at 20 // High: On at 241 / Off at 300	Automatic	DPDT	-20 to 85 / 100 to 425	8.5 to 55 / 43 & 71	213 / 470
DNS-C1D306YMQ3	Low: On at 40 / Off at 20 // High: On(Manual Reset) / Off at 300	Manual	DPDT	-20 to 85 / 100 to 425	8.5 to 55 / ~100	213 / 470
DNS-C1D306YMQ2	Low: On at 40 / Off at 20 // High: On(Manual Reset) / Off at 300	Manual	DPDT	-20 to 85 / 100 to 425	8.5 to 55 / ~100	213 / 470

COMPONENTS - SOLENOID VALVES

Castel® Solenoid Valves and Coils

Features

• EVR type solenoid valves are general purpose valves designed for use in refrigeration, freezer, and air conditioning systems

• Valve body and coil ordered separately





Solenoid Valves

Item ID	Operating Principle	Cv (US Gal/Min)	PS (psi)	TS (F) Min	TS (F) Max	Flare Connections	Solder ODS Connections	Direct Replacement For
1020UL/2S	Direct Acting	0.21	650	-31	230	1/4"	Х	032F8106
1028UL/3S	Direct Acting	0.27	650	-31	230	X	3/8"	032F1157
1038UL/4S	Piston Pilot Operated	1.16	650	-31	230	X	1/2"	032L7148
1059UL/9S	Piston Pilot Operated	6.58	650	-31	230	X	1 1/8"	032F7145
1064UL/3S	Diaphragm Pilot Operated	0.92	650	-31	230	3/8"	Х	032L8072
1064UL/4S	Diaphragm Pilot Operated	0.92	650	-31	230	1/2"	X	032L8079
1068UL/3S	Diaphragm Pilot Operated	0.92	650	-31	220	Х	3/8"	032L7115, 032L7116
1068UL/4S	Diaphragm Pilot Operated	0.92	650	-31	220	X	1/2"	032L1209, 032l7121
1070UL/4S	Diaphragm Pilot Operated	2.54	600	-31	220	1/2"	Х	032F8095, 032L8095
1078UL/4S	Diaphragm Pilot Operated	2.54	600	-31	220	5/8"	X	032F1217, 032L1217
1078UL/5S	Diaphragm Pilot Operated	3.02	600	-31	220	Х	5/8"	032F7149, 032L1214
1098UL/5S	Diaphragm Pilot Operated	4.39	650	-31	220	X	5/8"	032L1228
1098UL/7S	Diaphragm Pilot Operated	6.58	650	-31	220	Х	7/8"	032L1240
1099UL/9S	Piston Pilot Operated	6.59	600	-31	230	Х	1 1/8"	032L7145

Coils

Item ID	Voltage	Frequency	Connections	Degree of Protection	Direct Replacement For
9105/RA4	120 AC	60	Spade (9150UL/R02)	IP 65	018F7663
9105/RA6	220/230 AC	60	Spade (9150UL/R02)	IP 65	018F7658
9115/RA2	24 AC	60	Junction Box NEMA 2	IP 12-32	018F4100
9115/RA4	120 AC	60	Junction Box NEMA 2	IP 12-32	018F4110
9115/RA6	220/230 AC	60	Junction Box NEMA 2	IP 12-32	018F4120
9116/RA4	120	60	Conduit Hub NEMA 4	IP 54	018F4112
9116/RA6	220/230 AC	60	Conduit Hub NEMA 4	IP 54	018F4122

HEATING SEASON - 2022

BALL VALVES/SIGHT GLASSES - COMPONENTS

NDL® Ball Valves

Features

- Only TEFLON seats and seals including Schrader core
- Compatible with CFC, HCFC, HFC, and HFO refrigerants and oils
- All valves are serialized after passing 95/5 nitrogen and hydrogen pressure test
- Internally equalized ball design
- Rupture-proof encapsulated stem
- Bi-Directional Flow
- PTFE Seal Technology (twice sealing on the valve stem)
- UL/cUL listed to conform to pressure equipment directive 2014/68/EU
- 1/4 Turn Fully Open to Fully Closed
- All forged brass-oven brazed for clean appearance and durable weld
- Two year Warranty

Item ID	Max Working Pressure PSIG	ODF Solder (In.)	Direct Replacement For
NBV02-S	900	1/4"	009L8050
NBV03-S	900	3/8"	009L8051
NBV04-S	900	1/2"	009L8052
NBV05-S	900	5/8"	009L8053
NBV06-S	900	3/4"	009L8054
NBV07-S	900	7/8"	009L8065
NBV09-S	700	1-1/8"	009L8066
NBV11-S	700	1-3/8"	009L8067
NBV13-S	700	1-5/8"	009L8068
NBV17-S	700	2-1/8"	009L8059
NBV21-S	650	2-5/8"	009L8069

Item ID	Description
NBV-IN-S	Insulation for 1/4" - 5/8" ball valves
NBV-INH	Insulation for 3/4" - 1-1/8" ball valves



NDL® Sight Glasses

Features

- Available in both Sweat (ODF) and Flare (SAE)- configuration
- Sizes 1/4" 1/8" in sweat and 1/4" 3/4" in Flare
- Heavy brass body with extended copper ends for Sweat
- Heavy brass body with standard Flare ends
- Tube ends are oven brazed onto brass body
- Positive color contrast Yellow=wet; Green=dry
- Special litmus paper will return to original color once system is cleaned uptherefore no need to change the eye
- We do offer a replaceable eye special order
- Maximum working pressure 600 PSI











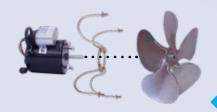
FAN ASSEMBLIES

ECM Technology for Walk-in and Reach-in Evaporators

EBM0207 EBM0210

- 12" (305mm) diameter fan
- Two options:
 - EBM0207 Fixed RPM suitable for use in Heatcraft unit coolers
 - EBM0210 Adjustable RPM rotary switch
- 100 240 VAC input voltage range
- · Integrated harness with plug
- Fully assembled & balanced

Why buy 3 parts, when you can buy one?





INSTALLS IN

ebmpapst

UNIT COOLER FAN ASSEMBLY

- Simplified inventory and guaranteed smooth running
- Can be installed in under 5 minutes per fan
- Big energy savings
- Single p/n direct replacement for 115V or 230V units
- Match the needed performance



ESM FAN ACCESSORIES

ESM NANO PROGRAMMER



HARNESSES FOR ESM AXIAL FAN

- Two-pin right angle plug, common to Hill Phoenix standard cases
- Three-pin straight round plug common to Kysor Warren standard cases
- Wire lead connection





EBM10637

EBM10847

- Allows for effortless programming of the (2) ESM speeds
- Inserts directly into fan's programming port Battery operated; no cables required Easy to read LCD display

ebmpapst Packard

Heatcraft BNE Air Cooled Condenser Fan Assembly Replacement Unit





- Fans can be wired to work as 0-10V or 10-0V control input using a jumper wire, no programming needed
- · Fans can be installed as lead fans or downstream fans on a condenser layout
- Includes components and instructions for fan assembly replacement to OEM specs

Heatcraft P/N	ebm-papst P/N	Description
25318801	S3G800-CY24-16A	200-240V
25318901	S3G800-CY27-06A	380-480V
25318803	S3G800-BY24-16A	200-240V
25318903	S3G800-BY27-06A	380-480V



MOTORS - EC UNIT BEARING

REFRIGERATION MOTOR

Features

- IP67 protection against dust and water
- High efficiency & wide replacement capability
- Mounting hardware included
- Ball bearing design for all angle mounting
- Double foot pad with threaded mounting holes (except 5408EC)

Temperature Rating:

-40° C to +55° C (-40° F to +130° F)



Item ID	Watts	Volts	RPM	Amps	Hertz	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)
5411EC	4 - 25	115-230	1550-1725	0.1-0.56/0.06-0.34	60/50	CWOSE	1/4 x 1/2	3
5412EC	4 - 25	115-230	1550-1725	0.1-0.56/0.06-0.34	60/50	CCWOSE	1/4 x 1/2	3
5411EC90*	4 - 25	115-230	1550-1725	0.1-0.56/0.06-0.34	60/50	CWOSE	1/4 x 1/2	3
5411EC2**	4 - 25	115-230	1550/800	0.1-0.56/0.06-0.34	60/50	CWOSE	1/4 x 1/2	3
5414EC	4 - 25	115-230	1550/1650	0.1-0.56/0.06-0.34	60/50	Reversible	1/4 x 1/2	3
5408EC	35 - 50@115V 35 - 60@230V	115-230	1550/800	0.8-1.0/0.52-0.8	60/50	Reversible	5/16 x 3	2 1/2

^{*}Includes 90 degree plug **Plug not included

FROM	ackard
Spacer Width (In.)	

Item ID	Description	Screws	Spacer Diameter (In.)	Spacer Width (In.)
HA5411	Adapter Spacer	(5) #8-36 x .750	3.188	.365

KRYO™ Fortress Motor

A high-efficiency EC motor with a dust-tight, water-tight rating.

Features

- Direct replacement for 28 different motor ratings
- · Dual voltage

- Reversible
- · Energy efficient
- Multi-mount
- Ball bearings

Item ID	Watts	Volts	RPM	Amps	Speed	Rotation	Enclosure	Shaft Dim. (In.)	Length Less Shaft (In.)	Note
MD5411S	4-20	90-240	1550	.3055	1	Rev	IP67	1/4-20	3 1/8	Α

Note: A - Stock No. 2117 - 90° cord adapter available separately



genteq

Packard

*Energy Savings EC Design - Comparison 16 Watt Motors @ 1550 RPM

EC Unit Bearing Motors

Features

• 60/50 Hz

• IP65 certified

- 61313 has a 90° plug
- 61312 has a straight pin plug
- · Rotation determined by viewing opposite the shaft

Item ID	Watts	Volts	RPM	Amps	Speeds	Rotation	Shaft Dim. (in.)	Length Less Shaft (in.)	Bearing	Mounting
61313	4-16	115	1550	0.16-0.42	1	CWLE	1/4 X 1/2	3 1/8	Ball	Double Foot Pad
61312	4-16	115	1550	0.16-0.42	1	CWLE	1/4 X 1/2	3 1/8	Ball	Double Foot Pad

UNIT BEARING & C-FRAME - MOTORS

Packard Unit Bearing Motors - Cast Iron 25-50 Watts





- Double foot pad
- · Rotation is determined by viewing the lead (opposite shaft) end
- 50/60 Hertz

•	Horizontal	or s	haft	up	mour	nting
---	------------	------	------	----	------	-------



Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (In.)	Length Less Shaft (In.)	Direct Replacement For			
Totally Enclo	sed										
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Tecumseh 810M035A29			
65022	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	GE 3352			
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Tecumseh 810M035A21			
65023	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	GE 3354			
Semi Enclose	Semi Enclosed										
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Copeland 050-0244-01			
65042	50	115	1500	1.70	CCW	3/8 x 1 1/2	3 5/8	GE 3502			
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Copeland 050-0244-00			
65043	50	230	1500	0.85	CCW	3/8 x 1 1/2	3 5/8	GE 3504			
Open Enclosu	ıre										
65045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	Tecumseh 810M050A62			



Packard C-Frame Motors

Applications

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

Features

- Shaded pole
- · Rotation is determined by viewing the shaft end
- Sleeve bearings Stud mounting
- Direct Replacements for Delfield, Bohn, Gemline and Nutone

Item ID	Stack Size (In.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (In.)	Hertz	Direct Replacement For	Notes
65100	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Gemline EM550 Nutone C65878 Robertshaw VFM100	105, 485
65100M	1/2	120	3000	0.60	1	CCW	7/32 x 1 5/8	60	Nutone C65878 Motor Only	464, 485
65123	1 1/2	115	3000	1.50	1	CCWLE	3/4 x 5/16 x 1 1/8	2.54	Carrier HC21ZE123A	
82423K	1/2	120	2650	0.60	1	CW	7/32 x 1 1/2	60	Nutone 89423-000	106, 485
65894K	3/4	120	3000	0.90	1	CCW	7/32 x 2 3/8	60	Nutone 82229 Nutone K5894	106, 555

Notes: 105. Includes A65100FB impeller 106. Assembled with bracket as illustrated 464. Same as 65100 except motor only 485. Includes two prong plug 555. Includes two prong plug and blower wheel

Utility Fan Motors and Kits

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

Features

· Rotation is determined by viewing the shaft end





• 60 Hertz







· Mechanically reversible

MOTORS - UNIT BEARING & 3.3 INCH DIAMETER

Packard Cast Iron 2-16 Watts - Single Foot Pad





Features

- 50/60 Hertz
- Single Foot Pad
- Totally Enclosed
- Rotation is determined by viewing the lead (opposite shaft) end

Packard Cast Iron 2-16 Watts - Double Foot Pads



- Double Foot Pads
- 50/60 Hertz
- Totally Enclosed
- Rotation CWLE
- 1550 RPM

Packard Aluminum 2-16 Watts - Single and No Foot Pad



Features

- 115 Volts
- 1550 RPM
- 50/60 Hertz
- Totally enclosed
- Rotation is determined by viewing the lead (opposite shaft) end

Open Enclosure



Features

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

Direct Replacements for Bohn, Heatcraft, Larkin and Krack

- 3.3 Inch Diameter Motors







HEATING SEASON - 2022



Electronically Commutated Motor

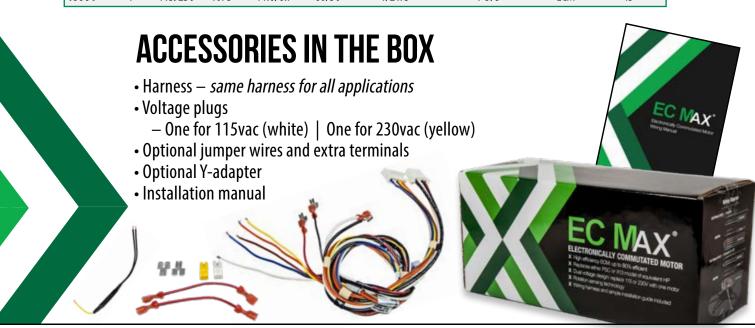




FEATURES

- High Efficiency
- Replaces either PSC or X13 model of equivalent HP
- Dual Voltage Design: Replace 115 or 230V with one motor
- Rotation Sensing Technology
 - Automatically selects rotation upon first start up
- Replaces 100s of different motors
- 45" wiring harness

Item ID	H.P.	Volts	RPM	Amps	Hertz	Shaft Dimension (in.)	Length Less Shaft (in.)	Motor Type	Cord Length
46013	1/3	115/230	1075	5.0/3.0	60/50	1/2 x 5	6 3/8	ECM	45"
46012	1/2	115/230	1075	6.7/4.0	60/50	1/2 x 5	6 3/8	ECM	45"
46034	3/4	115/230	1075	8.2/4.9	60/50	1/2 x 5	7 5/8	ECM	45"
46001	1	115/230	1075	11.0/6.7	60/50	1/2 x 5	7 5/8	ECM	45"



MOTORS - EVERGREEN®

Evergreen® VS Motors and User Interface





VARIABLE SPEED REPLACEMENT MOTORS

The Evergreen® VS motors and Evergreen VS user interface are designed to replace Genteq® constant airflow (variable speed) ECM indoor blower motors.

The Evergreen VS product line is designed specifically to replace Genteq models 2.3, Eon® and 3.0 motors. These motors represent the largest volume of variable speed motors used to date in HVAC OEM indoor blower motor applications.

FEATURES

- · Pre-programmed
- Plug-n-play
- Dual voltage
- Dual rotation
- Truck stock

BENEFITS

- Two year warranty*
- Complete calls same day including after hours calls
- Reduce time on call using part on truck
- Built by same manufacturer as original motor
- Maintains system performance and efficiency

^{*} This warranty shall expire twenty-four (24) months from first use of the Product or thirty (30) months from date of shipment of the Product, whichever occurs first. Except as stated here, Regal standard limited warranty applies. See www.regalbeloit.com (Terms and Conditions of Sale).

Item ID	НР	Volts	FLA	Rotation	RPM	Frame	Shell Length	Shaft Length
6503V	1/3	120/240	5.0/2.8	CCW/CW	1050	NEMA 48	10.71"	5.71"
6505V	1/2	120/240	7.7/4.3	CCW/CW	1050	NEMA 48	11.21"	6.21"
6507V	3/4	120/240	10.1/6.1	CCW/CW	1050	NEMA 48	11.96"	6.96"
6510V	1	120/240	12.8/7.4	CCW/CW	1050	NEMA 48	12.71"	7.71"

Genteq® Model 2.3 or EON® Motor Replacement (16-PIN)

The Evergreen VS motor and User Interface (5K010V) are used together to replace the Genteq model 2.3 or Eon motor. All wires and harnesses provided.



HEATING SEASON - 2022

Evergreen IM





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

- Two motors cover most applications
- Multi-volt 115/230 VAC, 50/60 Hertz
- Integrated with HVAC system controls/operation
- Four speed selections for heating and cooling
- **Ball bearing**

- 1/2 inch diameter flat shaft
- Auto sensing rotation
- **Optimized constant fan speed**
- · Automatic overload protection
- Open enclosure

- Ball bearing
- Open enclosure
- Continuous duty
- 5.5 inch diameter
- Band mounting

Item ID	H.P.	Volts	RPM	Amps	Direct Replacement For
6005	1/5, 1/4, 1/3, 1/2	115/230	1070	6.70/4.00	GE 5SME39HXL110
6010	1	115/230	1070	11.00/6.70	GE 5SME39SXL111

Evergreen EM

Replace 100s of Different OEM X13 ECM Models

Evergreen EM is designed to replace direct-drive blower motors in residential and light commercial indoor furnaces, air handlers, and package systems that were designed with a standard ECM motor.

- Multi-speed, constant torque, brushless DC motor
- Automatically determines motor rotation direction
- 5 discrete speeds using 24VAC (3 using 18VDC)
- NEMA 48-frame (5.6 inch diameter) Belly Band Mount with 5-inch long ½ inch diameter shaft
- Standard ECM Replacement (does not replace premium ECM constant airflow products such as Eon, 3.0, 2.3, and 2.5)
- Maintains ECM-level efficiency up to 80%
- Soft Start and Off Ramp for quiet operation
- Electronic overload protection
- Operating speed range of 600-1200 rpm
- Available in 1/3 to 1HP ratings



Item ID	H.P.	Volts	RPM	Amps	Rotation	Shell Length (In.)	Shaft Length (In.)
6103E	1/3	115	600-1200	4.8	Auto Sensing	10.17	5.25
6203E	1/3	208-230	600-1200	2.8	Auto Sensing	10.17	5.25
6105E	1/2	115	600-1200	6.8	Auto Sensing	10.67	5.75
6205E	1/2	208-230	600-1200	4.1	Auto Sensing	10.67	5.75
6107E	3/4	115	600-1200	8.4	Auto Sensing	11.42	6.5
6207E	3/4	208-230	600-1200	6	Auto Sensing	11.42	6.5
6110E	1	115	600-1200	10.9	Auto Sensing	12.17	7.25
6210E	1	208-230	600-1200	7.6	Auto Sensing	12.17	7.25

Ball bearing

Evergreen OM

Energy Savings. Quiet Operation Comfort. Indoor Air Quality

Evergreen OM is a versatile high efficiency ECM designed motor to replace induction motors (shaded pole or PSC) in outdoor fan applications.

• 50/60 Hertz

- Two motors cover most applications
- 1/2" diameter shaft w/ single flat
- Totally enclosed

Item ID	H.P.	Volts	RPM	Amps	Speed	Rotation	Shaft Dim. (in.)	Length Less Shaft (In.)	Bearing	Mounting
6301	1/5 - 1/10	208-230	850/1100	2.8	2	Reversible	1/2 x 3	5.45	Ball	Thru Bolt/Belly Band
6303	1/3 - 1/10	208-230	850/1100	3.5	2	Reversible	1/2 x 3	5.95	Ball	Thru Bolt/Belly Band
6303R*	1/3 - 1/10	208-230	850/1100	3.5	2	Reversible	1/2 x 5-1/2	3.5	Ball	Thru Bolt/Belly Band

^{*}Designed with remote mounted control



MOTORS - EVAPORATIVE COOLER

Nidec Evaporative Cooler Motors

Features

• 56Z Frame • Ball Bearing • 2 1/2" Mounting Rings • Automatic Overload • 60 Hz











Item ID	НР	RPM	Volt	Speed	Amps	Center Ring to Center Ring (in)	Extended Description	Direct Replacement For
6767	1/3	1725/1140	115	2	5.5/3.9	7.44	Split Phase, CW Shaft End, No Base	2202
6768	1/2	1725	115	1	8.2	7.44	Split Phase, CW Shaft End, No Base	2203
6765	1/2	1725/1140	115	2	7.5/4.0	7.44	Split Phase, CW Shaft End, No Base, Class F Insulation	2204
6766	1/2	1725	230	1	4.8	7.44	Split Phase, CW Shaft End, No Base	2172
6795	1/2	1725/1140	230	2	4.5	7.44	Split Phase, CW Shaft End, No Base, Class F Insulation	2176
6769	3/4	1725	115	1	10.7	7.44	Split Phase, CW Shaft End, No Base, Class F Insulation	2205
6770	3/4	1725/1140	115	2	10.5/4.7	7.44	Split Phase, CW Shaft End, No Base, Class F Insulation	2206
6771	3/4	1725	230	1	5.4	7.44	Split Phase, CW Shaft End, No Base	2184
6796	3/4	1725/1140	230	2	5.0/2.2	7.44	Split Phase, CW Shaft End, No Base, Class F Insulation	2189
2574	1	1725/1140	115	2	12.4/6.1	9.5	Capacitor Start, Reversible, Resilient Base	2395
2423	1	1725/1140	230	2	7.0	9.5	Capacitor Start, Reversible, Resilient Base	2396
5149	1	1725/1140	115/230	1	15.1/7.5	9.5	Capacitor Start, Reversible, Resilient Base	2397

Packard 5-5/8" Unit Heater Motors

Motors come with strong ball bearing construction. Utilize motor in unit heaters, blower equipment and other shaft-mounted fans.

Features

- Permanent Split Capacitor
- Totally enclosed
- Class B insulation
- Includes capacitor mounted on motor
- Horizontal or vertical mounting
- Dual bolt circle applications (30° - 60° & 45°)
- 1" extended studs

Item ID	НР	Voltage	RPM	Amps	Speed	Rotation	Bearing	Enclosure	Hertz	Shaft Dimension (in)	Frame
40066*	1/6	115	1075	2.4	1	Rev	Ball	Enclosed	60	1/2 x 3 3/8	48
40025	1/4	115	1075	3.4	1	Rev	Ball	Enclosed	60	1/2 X 2 1/2	48
40033	1/3	115	1075	5.3	1	Rev	Ball	Enclosed	60	1/2 X 2 1/2	48

*Base not included.

DIRECT DRIVE - BLOWER MOTORS

5-5/8" Diameter Direct Drive Blower Motors

Features

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





Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dim.(In.)	Length Less Shaft (In.)	Bearings	Capacitor Required	Direct R	eplacement For
43581	1/6	115	1075	2.50	3	1/2 x 5 1/2	4	Sleeve	5MFD/370V	GE 3581	US Motors 8891
43582	1/6	208-230	1075	1.40	3	1/2 x 7	4	Sleeve	5MFD/370V	GE 3582	US Motors 8896
43583	1/4	115	1075	4.40	3	1/2 x 4 1/2	4	Sleeve	5MFD/370V	GE 3583	US Motors 1863
43584	1/4	208-230	1075	1.70	3	1/2 x 4 1/2	4	Sleeve	5MFD/370V	GE 3584	US Motors 1971
43585	1/3	115	1075	6.00	3	1/2 x 4 1/2	4-1/4	Sleeve	5MFD/370V	GE 3585	US Motors 1864
43586	1/3	208-230	1075	2.60	3	1/2 x 4 1/2	4-1/4	Sleeve	5MFD/370V	GE 3586	US Motors 1972
43587	1/2	115	1075	7.80	3	1/2 x 4 1/2	5-1/8	Sleeve	5MFD/370V	GE 3587	US Motors 1865
43588	1/2	208-230	1075	3.60	3	1/2 x 4 1/2	5-1/8	Sleeve	5MFD/370V	GE 3588	US Motors 1973
43589	3/4	115	1075	10.50	3	1/2 x 4 1/2	5-1/8	Sleeve	15MFD/370V	GE 3589	US Motors 8904
43590	3/4	208-230	1075	4.60	3	1/2 x 4 1/2	5-1/8	Sleeve	10MFD/370V	GE 3590	US Motors 8905



48 FRAME MOTORS

Direct Drive Blower

5-5/8" Diam. Torsion Flex PSC Direct Drive Blower Motors

Features

• Permanent split capacitor

• Energy efficient

- Continuous air over
- Automatic overload
- RPM 1075
- Open enclosure
- 48 Frame
- 60 Hertz
- Single phase
- Reversible Rotation
- Sleeve Bearings

10MFD/370V

Electrically reversible

Item ID	H.P.	Volts	Amps	Speeds	Shaft Dim. (In.)	Length Less Shaft (In.)	Capacitor Required	Direct Replacement For
43782	1/6	115	2.50	3	1/2 x 5	4	5MFD/370V	3782
43783	1/4	115	3.60	4	1/2 x 6	4	5MFD/370V	3783
43784	1/4	208-230	1.80-2.00	4	1/2 x 6	4	5MFD/370V	3784
43785	1/3	115	4.80	4	1/2 x 6	4-1/4	10MFD/370V	3785, 9377
43786	1/3	208-230	2.30-2.60	4	1/2 x 6	4-1/4	10MFD/370V	3786
43787	1/2	115	8.00	4	1/2 x 6	4-7/8	10MFD/370V	3787
43788	1/2	208-230	3.30-4.00	4	1/2 x 6	4-7/8	10MFD/370V	3788
43789	3/4	115	9.00	3	1/2 x 5	5.41	15MFD/370V	3789

 $1/2 \times 5$



5-5/8" Diam. Multi-Horsepower Direct Drive Blower Motors

Features

43790

Permanent split capacitor

3/4

Multiple capacitor/speed combinations

208-230

4.50

- Continuous duty, air over
- Mounting rings, thru bolts and holes in shell

5.41

- Class B insulation
- Reversible rotation

- **Automatic overload**
- 48 Frame / 60Hz
- Single phase

3790

Item ID	H.P.	Volts	RPM	Amps	Rotation	Туре	Bearings	ENCL.	Direct Replacement For
45460*	1/2-1/3-1/4-1/5-1/6	115	1075	5.80-5.10-3.50-3.20-2.20	Reversible	PSC	Sleeve	0pen	US Motors 5460 Rheem 51-23012-41
45461*	1/2-1/3-1/4-1/5-1/6	208-230	1075	2.90-2.50-1.80-1.40-1.30	Reversible	PSC	Sleeve	0pen	US Motors 5461 Rheem 51-23022-41
45470*	3/4-1/2-1/3-1/4-1/5	115	1075	9.10-6.50-5.50-4.00-2.30	Reversible	PSC	Sleeve	0pen	US Motors 5470 Rheem 51-23017-41
45471*	3/4-1/2-1/3-1/4-1/5	208-230	1075	4.60-3.30-3.40-2.30-1.70	Reversible	PSC	Sleeve	0pen	US Motors 5471 Rheem 51-21898-01

^{*}Capacitor Required: HP 3/4 and 1/2 - 10MFD 370V | HP 1/3, 1/4, 1/5, 1/6 - 7.5MFD 370V



MOTORS - BELT DRIVE

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





Applications

Centrifugal pumps, belt drive furnace blowers, fans

- 40°C ambient
- Continuous duty
- 5/8 inch shaft adapter and key included
- Resilient base has 48/56 Frame mounting holes
- · Class B insulation
- Electrically reversible
- Open drip proof enclosure
- 5 5/8 inch diameter

NEW

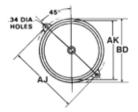
- Split phase
- Automatic overload
- 60 Hertz
- Single speed

							· .						
	Item ID	H.P.	Volts	RPM	Amps	Rotation	Service Factor	Shaft Dim. (In.)	Length Less Shaft (In.)	Frame	Bearings	Direct Replac	ement For
	Single V	oltage	e										
W)	45016	1/6	115	1725	3.60	Rev.	1.35	1/2 x 1 7/8	7 1/2	48/56	Sleeve	US Motors 3615	Mars 10301
	45014	1/4	115	1725	4.80	Rev.	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	US Motors 8000	
	45013	1/3	115	1725	6.60	Rev.	1.35	1/2 x 1 7/8	6 3/4	48/56	Sleeve	US Motors 8100	
	45012	1/2	115	1725	8.30	Rev.	1.25	1/2 x 1 7/8	7 3/4	48/56	Sleeve	US Motors 8200	
	Dual Vol	tage											
	45014D	1/4	115/208-230	1725	4.60/2.20-2.10	Rev.	1.35	1/2 x 1 7/8	6.75	48/56	Ball	Marathon B30	
	45013D	1/3	115/208-230	1725	6.60/3.40-3.10	Rev.	1.35	1/2 x 1 7/8	6.75	48/56	Ball	Marathon B305	
	45012D	1/2	115/208-230	1725	7.60/3.70-3.80	Rev.	1.25	1/2 x 1 7/8	8.58	48/56	Ball	Marathon B307	
	45230D	3/4	115/208-230	1725	11.60/5.90-5.80	Rev.	1.25	5/8 x 1 7/8	10.55	56H	Ball	Marathon 56S17D2060	

Split Phase and Capacitor Start Oil Burner Motors

Features

- 40°C ambient
- 20" Leads
- 1.0 service factor
- · Reversible rotation, except as noted
- · Manual reset thermal overload protector
- 56N Frame has 2 holes and screws for mounting outlet box
- 56N flange is enclosed, 48M and 48N flange are ventilated
- · Bearings have all angle thrust system



	NEMA Frame	Bolt Circle AJ	Flange Dia. AK	Outside Dia. BD
I	48M	6.75*	5.500*	6.25" max
I	48N, 56N	7.25*	6.275*	7.00" max

							Shaft					Direct	
Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Dimension (In.)	Туре	Frame	Mounting	Flange Type	Replacement For	Notes
3196	1/8	115	1725	2.4	1	CCWSE	1/2 x 2	Split	48N	Flange	Ventilated	El2005	85
3274	1/7	115	3450	1.7	1	CCWSE	1/2 x 2	PSC	48M	Flange	Ventilated	OBK6002V1	84, 86, H46
5866	1/7	115	3450	2.3	1	CCWSE	1/2 x 2	Split	48M	Flange	Ventilated	EL2002V1	84
3252N	1/6	115	1725	3.1	1	Reversible	1/2 x 2	Split	48N	Flange	Ventilated	EL2014V1	
2302	1/4	115	3450	3.7	1	Reversible	1/2 x 2	Split	48N	Flange	Ventilated	EL2022	
2319	1/3	115	3450	4.8	1	Reversible	1/2 x 2	Split	48N	Flange	Ventilated	0L2032	78

HEATING SEASON - 2022

Notes: 78. Class B insulation system 84. Non-Reversible 85. Removable face plate 86. PSC motor, capacitor included H46. 3.7" body



COOPER ATKINS® - TEMPERATURE TOOLS

Monitor solutions for the global Foodservice, Healthcare and Industrial markets.



Thermistor Instruments







CASH66A-E

Cordless Pipe Clamp Temperature Probe





Digital Pocket Test Thermometers





Infrared Thermometers (Gun-style with Laser Sighting)

Instant Read Thermometer

CA1246-02-1



Three Vapor Tension Thermometers

CA6142-20-3

CA6642-06-3

CA6812-01-3







Warning: CANCER-www.P65Warnings.ca.gov



VENTILATION SOLUTIONS - FANTECH®

Fresh Air Appliance







Features

- Up to 160 cfm of fresh air
- Integrated MERV8 fresh air filter
- 6" top-mounted duct connections
- Unobstructed front access
- · Energy-efficient counter flow core
- Multiple speed operation



While natural infiltration of fresh air thru gaps and cracks in the building envelope offers a certain amount of fresh air, with most new homes this amount of air just is not sufficient. Properly sealed homes require mechanical ventilation to remove excess moisture, odors, and contaminants while providing fresh air for occupants and enhancing comfort.

HERO 150H fresh air appliance provides a controlled way of ventilating a home. It works continuously to supply up to 160 cfm of fresh, filtered air into the building while removing the equal amount of moist, stale air. Up to 80% of the heat in the extract air is recovered by the heat exchanger and used to heat the fresh air coming from outside. In summer, the energy of extract air transfers to cool the warmer fresh air reducing cooling loads on air conditioning.

The HERO features a counterflow core to deliver exceptional heat transfer performance. The product comes with a wall mount, external electrical box with easy connect ports, integrated in-door manometer ports and duct ports with plastic collar shrouds with integrated backdraft for simple fast installation.

HERO 150H is compatible with ECO-TOUCH® IAQ Programmable Wall Control.

Item ID	Number of Bedrooms	Avg. Airflow CFM @ 0.4" Ps	Duct Con- nection	Voltage/ Phase	Rated Power	Max Sensible Recovery Efficiency	Max Current	Height	Depth	Width
HERO120H	1-5	119	5"	120V/1	165W	80%	1.2A	24.25"	11.5"	23.25"
HERO150H	2-5	161	6"	120V/1	180W	80%	1.4A	24.2875"	13.375"	27.875"

HERO™ products come with a mounting bracket.

Remote Mount Bath Fans - PB Series

A small-scale grille mounts in the ceiling while the fan motor mounts in a remote location away from the living area. The result is a quiet yet powerful combination designed to help protect your home from the damaging effects of humidity. PB fans are designed for intermittent or continuous operation to meet ASHRAE Standard 62.2.



- Remote mount fan ensures quiet operation
- Unobtrusive grille makes for better aesthetics



Item ID	Vent Grille	Duct Size	Rated Power	Voltage/ Phase	ENERGY STAR® Qualified	LED Bulb	Weight
PB110	Single	4"	21W	120V/1	167°F	_	9 lbs
PB110L7	Single	4"	23W	120V/1	167°F	7W Dimm.	10 lbs
PB 270-2	Double	4"/6"	67W	120V/1	167°F	_	16.6 lbs
PB270L72	Double	4"/6"	67W	120V/1	167°F	2x7W Dimm.	18.5 lbs









FANTECH® - VENTILATION SOLUTIONS

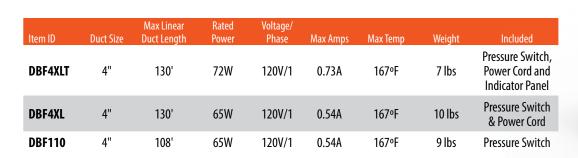
Duct Booster Fans - DBF Series

The Fantech duct boosting fans have been specially designed to solve the problems caused by long duct runs on clothes dryers. According to dryer manufacturers and some local building codes, duct booster fans should be added in the dryer duct run when the length of the duct exceeds 25 feet with no bends, 20 feet with one bend or 15 feet with two bends.

When the dryer is on, Fantech's patented pressure sensing switch automatically turns the exhaust fan on. The warm, moist air in the dryer duct is exhausted out of the building quickly. The dryer exhaust fan monitors the status of the dryer and will turn itself off when the dryer stops. A wall-mounted indicator panel (specific models) with LED display lets homeowners know that the fan is fully operational.









Mix-Flow Fans - FKD Series

FKD Series is designed for installation in circular ducts for applications where high airflows and quiet performance are needed: residential kitchen exhaust, supply/exhaust in institutional buildings such a offices, hospitals, beauty salons, veterinary clinics.

Airflow ranges between 675 and 6,271 cfm. Galvanized steel housing. Controllable with an external speed control between 60 and 100%

Features

- Suitable for indoor installations
- Thermally protected from overheating
- Mounting bracket and hardware included
- 5 Year factory warranty

Item ID	Duct Connection	Rated Power	Voltage/ Phase	Max Amps	Shipping Weight	Shipping Class
FKD8XL	8"	32W	120V/1	0.19A	7 lbs	1
FKD10XL	10"	529W	120V/1	0.19A	7 lbs	1









CONTROLS - RIB-FUNCTIONAL DEVICES®

Enclosed Pilot Relays







Enclosed Relay 10 Amp SPDT with 10-30 Vac/dc/120 Vac Coil.

Features

- LED indicator
- Multiple contact ratings
- Override / HOA switch options available
- · High/low voltage separation available
- 10-15 Amp models
- Pre-wired
- · Enclosed or track mount
- Time delay models











Replacement Sensor Assembly



Replacement parts are available for several products including remote sensors, socket relays, and more.

CT Series - Current Transformers



CT-025A1-333

Enclosed Self-Powered Split Core 25, 50, and 100 Amp Current Transformers with 333 mV Output.





HEATING SEASON - 2022





Mounting Snap Track

MT212-2



Mounting options include plastic track for snap-mounting circuit boards. One style of track can be mounted to the back surface of any cabinet and is available in 4.00" or 2.75" widths. Another style of track, AdapTrack®, snaps onto any of the three most popular DIN rails. In turn, it can accommodate a 4.00" wide circuit board. Perforated DIN rail and end stops are also available.



COMPONENTS & ACCESSORIES

Vent Termination Kits



Concentric Vents

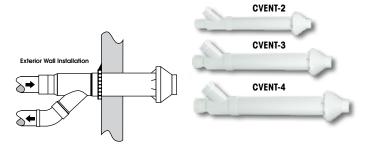
Concentric vents make it easier to have a two pipe installation for high efficiency furnaces. These vents simplify installation and only require one hole through the wall or roof where the pipes terminate. Without using these vents, the installation would require cutting two holes through the home, one for each pipe. These vents save time and money by reducing the amount of work required.

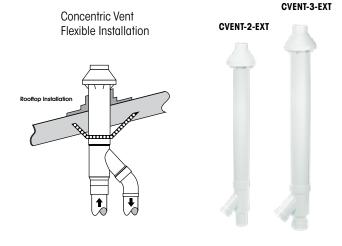
Available in 2", 3" or 4" intake vent sizes.

Item ID	Description	UOM	Order Multiple
CVENT-2	2" Concentric Vent	EA	1
CVENT-3	3" Concentric Vent	EA	1
CVENT-4	4" Concentric Vent	EA	1

The extended vents help maintain clearance above the anticipated snow level to meet local code requirement.

Item ID	Description	UOM	Order Multiple
CVENT-2-EXT	2" Concentric Vent Kit, 60" Overall Ext. Length	EA	1
CVENT-3-EXT	3" Concentric Vent Kit, 60" Overall Ext. Length	EA	1





Horizontal Vent Termination Kits

Horizontal vent kits for use in venting high efficiency fossil fuel appliances. The low profile kit hides the vent from view.

Item ID	Description	UOM	Order Multiple
HVENT-2	Horizontal Termination Kit - 2"	EA	6
HVENT-3	Horizontal Termination Kit - 3"	EA	6



COMPONENTS & ACCESSORIES

Black Steel Welded Nipples



Welded Steel that withstands 700 PSI test pressure is perfect for everyday use. The specs for this product are ASTM A 120 (Nom B 10) and the thickness is Sch. 40.

R	D	N	-5

			Order
Item ID	Description	UOM	Multiple
BPN-1	1/2" x CL Black Welded Nipple	EA	25
BPN-2	1/2" x 1-1/2" Black Welded Nipple	EA	25
BPN-3	1/2" x 2" Black Welded Nipple	EA	25
BPN-4	1/2" x 2-1/2" Black Welded Nipple	EA	25
BPN-5	1/2" x 3" Black Welded Nipple	EA	25
BPN-6	1/2" x 3-1/2" Black Welded Nipple	EA	25
BPN-7	1/2" x 4" Black Welded Nipple	EA	20
BPN-8	1/2" x 4-1/2" Black Welded Nipple	EA	15
BPN-9	1/2" x 5" Black Welded Nipple	EA	15
BPN-10	1/2" x 5-1/2" Black Welded Nipple	EA	25
BPN-11	1/2" x 6" Black Welded Nipple	EA	15
BPN-12	1/2" x 7" Black Welded Nipple	EA	25
BPN-13	1/2" x 8" Black Welded Nipple	EA	15
BPN-14	1/2" x 9" Black Welded Nipple	EA	25
BPN-15	1/2" x 10" Black Welded Nipple	EA	15
BPN-16	1/2" x 11" Black Welded Nipple	EA	25
BPN-17	1/2" x 12" Black Welded Nipple	EA	15
BPN-18	3/4" x CL Black Welded Nipple	EA	25
BPN-19	3/4" x 1-1/2" Black Welded Nipple	EA	25
BPN-20	3/4" x 2" Black Welded Nipple	EA	25
BPN-21	3/4" x 2-1/2" Black Welded Nipple	EA	25
BPN-22	3/4" x 3" Black Welded Nipple	EA	15
BPN-23	3/4" x 3-1/2" Black Welded Nipple	EA	15

			Order
Item ID	Description	UOM	
BPN-24	3/4" x 4" Black Welded Nipple	EA	15
BPN-25	3/4" x 4-1/2" Black Welded Nipple	EA	20
BPN-26	3/4" x 5" Black Welded Nipple	EA	20
BPN-28	3/4" x 6" Black Welded Nipple	EA	15
BPN-30	3/4" x 8" Black Welded Nipple	EA	10
BPN-32	3/4" x 10" Black Welded Nipple	EA	10
BPN-34	3/4" x 12" Black Welded Nipple	EA	15
BPN-35	1" x CL Black Welded Nipple	EA	25
BPN-37	1" x 2" Black Welded Nipple	EA	25
BPN-38	1" x 2-1/2" Black Welded Nipple	EA	25
BPN-39	1" x 3" Black Welded Nipple	EA	5
BPN-40	1"x 3-1/2" Black Welded Nipple	EA	5
BPN-41	1" x 4" Black Welded Nipple	EA	10
BPN-43	1" x 5" Black Welded Nipple	EA	5
BPN-44	1" x 5-1/2" Black Welded Nipple	EA	10
BPN-45	1" x 6" Black Welded Nipple	EA	5
BPN-47	1" x 8" Black Welded Nipple	EA	5
BPN-51	1" x 12" Black Welded Nipple	EA	5
BPN-52	1/2" x 18" Black Welded Nipple	EA	5
BPN-53	1/2" x 24" Black Welded Nipple	EA	3
BPN-54	1/2" x 36" Black Welded Nipple	EA	5
BPN-A12	1/2" Assortment Pack, 6 each of CL thru 6", pack of 66	PK	2
BPN-A34	$3/4^{\prime\prime}$ Assortment Pack, 6 each of CL thru $6^{\prime\prime}$, pack of 66	PK	2



Sentry[™] Refrigerant Locking Caps

R-410, Red, 1/4" and Universal, Silver, 1/4"

The Sentry™ Refrigerant Locking Caps are quick and easy way to comply with the IRC and IMC codes requirement that all outdoor access ports on A/C and refrigerant equipment have to be tamper resistant. This cap is anodized in red color for easy identification of R-410 refrigerant. It is designed for 1/4" access ports. An 0-ring seal is also pre-installed to prevent leaks.

Item ID	Description	UOM	Order Multiple
RSC-RED-50K	Sentry™ Refrigerant Locking Caps - 1/4″ Red, 50 pcs Pack w/2 Universal Keys	PK	1
RSC-SLV-50K	Sentry™ Refrigerant Locking Caps - 1/4″ Silver, 50 pcs Pack w/2 Universal Keys	PK	1

NOTE: Item numbers in **RED** indicate Made in the U.S.A.

COMPONENTS & ACCESSORIES

Copper Tube Fitting Brush - 1/4" thru 2-1/8"

Highest quality brushes to clean fittings faster, easier and more safely. Made with strong, resilient, rustproof stainless steel bristles secured in a 4-ply wire with easy-to-grip plastic handle. Economy models feature same quality stainless steel, but secured in 2-ply wire.

Item ID	Description	Quantity
B-124	Copper Tube Fitting Brush - Economy 1/4in. O.D., 9/32in. Brush Diameter	(6PK)
B-125	Copper Tube Fitting Brush - Economy 3/8in. O.D., 13/32in. Brush Diameter	(6PK)
B-126	Copper Tube Fitting Brush - Economy 1/2in. O.D., 17/32in. Brush Diameter	(6PK)
B-127	Copper Tube Fitting Brush - Economy 5/8in. O.D., 11/16in. Brush Diameter	(6PK)
B-128	Copper Tube Fitting Brush - Economy 3/4in. O.D., 13/16in. Brush Diameter	(6PK)
B-129	Copper Tube Fitting Brush - Economy 7/8in. O.D., 15/16in. Brush Diameter	(6PK)
B-131	Copper Tube Fitting Brush - Economy 1-1/8in. O.D., 1-1/4in. Brush Diameter	(6PK)
B-132	Copper Tube Fitting Brush - Economy 1-3/8in. O.D., 1-1/2in. Brush Diameter	(6PK)
B-924	Copper Tube Fitting Brush - 1/4in. O.D., 9/32in. Brush Diameter	(1PK)
B-925	Copper Tube Fitting Brush - 3/8in. O.D., 13/32in. Brush Diameter	(1PK)
B-926	Copper Tube Fitting Brush - 1/2in. O.D., 17/32in. Brush Diameter	(1PK)
B-927	Copper Tube Fitting Brush - 5/8in. O.D., 11/16in. Brush Diameter	(1PK)
B-928	Copper Tube Fitting Brush - 3/4in. O.D., 13/16in. Brush Diameter	(1PK)
B-929	Copper Tube Fitting Brush - 7/8in. O.D., 15/16in. Brush Diameter	(1PK)
B-930	Copper Tube Fitting Brush - 1in. O.D., 1-1/8in. Brush Diameter	(1PK)
B-931	Copper Tube Fitting Brush - 1-1/8in. O.D., 1-1/4in. Brush Diameter	(1PK)
B-932	Copper Tube Fitting Brush - 1-3/8in. O.D., 1-1/2in. Brush Diameter	(1PK)
B-934	Copper Tube Fitting Brush - 1-5/8in. O.D., 1-3/4in. Brush Diameter	(1PK)
B-935	Copper Tube Fitting Brush - 2-1/8in. O.D., 2-1/4in. Brush Diameter	(1PK)





Contractor Brushes



Item ID	Image	Description	Quantity
542-76220	Α	Duct Cleaning Brush	(1PK)
B-4	В	Welder's Brush	(12PK)
B-26	С	Fin Whisk Brush	(12PK)
B-1	D	Tin Handle Acid Brush, 3/8in.	(1PK)
B-2	D	Tin Handle Acid Brush, 1/2in.	(1PK)
B-10	E	Carbon Steel Curved Handle Scratch Brush	(1PK)

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