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STANDARD LINE SETS - INSULATED COPPER TUBE - MINI SPLIT LINE SETS



Linesets Inc. has been the industry leader since 2001 with more options and innovations than all other line set manufacturers combined. Copied by many, but never duplicated.



THE INDUSTRY LEADER IN CUSTOMER SERVICE

- Shortest Lead Time. Average 3.5 Days.
- 99.5% on time, complete and accurate shipments.

THE INDUSTRY LEADER IN INNOVATION

- First to fully assemble. The Liquid Line is taped to the Suction Line, insuring both lines are the correct length and both lines are in the box when you need them.
- First to include Multiple Wire Options. This allows the HVAC/R wholesaler to supply everything the contractor needs, even if they do not stock electrical wire. This saves the contractor time and the need to find the correct wire.
- First to offer Twin Tube Insulation. This makes your mini split installation look much cleaner.
- First and only to offer custom ink jet printing on the suction line. This can reduce theft and identify copper that has been stolen.
- First and only to offer InsulArmour 180. A protective coating that reduces drag and friction during installation, greatly reducing rips and shredding.
- First to have an East Coast and West Coast manufacturing facility. Reducing transit time.
- Our new exclusive Damage Control Carton allows for faster receiving, easier warehouse handling and storage – creating space savings, while drastically reducing damage. It is also easy to order any quantity; we allow orders for just 1 piece, at no premium. (Pricing is based on total order value)
- First to offer pre-insulated 20' ACR.
- First to offer soft straight line sets up to 20' in length.
- First to offer lengths greater than 60' – We have produced lengths over 200'.
- First to offer PE insulation in 1/2" & 3/4" wall, in any length.
- Look for several new first offerings in the near future.

TRUE INDUSTRY LEADER IN SERVICE

We are strong believers in people first. In our manufacturing processes; we focus on safety, quality and organization to maximize efficiency in our plants. We believe in having solid mutually beneficial relationships with our employees, our customers (exclusively HVAC/R wholesalers), our customer's customer (HVAC/R contractors) and our suppliers. **We do not sell to any end users or retail outlets.** Our ideas and innovations come from these relationships, listening to our customers, the contractors who install our products and our employees who make them.

We Thank You, One and All.

STANDARD LINE SETS - INSULATED COPPER TUBE - MINI SPLIT LINE SETS



PACKAGING OPTIONS

- Individual - in our exclusive "Damage Control Carton" (standard)
- Master Carton – 4-14 individual boxes in a single large carton (the competitor's standard)
- Bulk – no box (stretch wrapped on a pallet)

ASSEMBLY OPTIONS

- Fully Assembled (standard)
- Separate Pieces In a Box (the competitor's standard)



Damage Control Carton



STANDARD LINE SETS - INSULATED
COPPER TUBE - MINI SPLIT LINE SETS



INSULATION OPTIONS

- Elastomeric Rubber (black) (standard)
- EPDM Rubber (black)
- Elastomeric Rubber w/ InsulArmour 180 (black)
- Elastomeric Rubber w/ InsulArmour 360 (black)
- Polyethylene Insulation w/ InsulArmour 360PE (the “White Stuff”)
- Polyethylene Insulation w/ Aluminum InsulArmour 360PES (silver)
- Any combination from above

LINE SET LENGTHS

- Any Length from 1’ – 100’ (longer lengths available in limited sizes)
- Soft Straight Lengths Available in 1’ – 20’



Twin - Tube - Flare Fittings



InsulArmour 360



InsulArmour 360 PE

LINE SET OPTIONS (AVAILABLE ON ANY LINE SET)

A. THERMOSTAT WIRE

- Any Type – Plain, Stranded, Solid, Plenum Rated, Shielded
- Any Gauge – 12, 14, 16, 18 or 20
- Any Conductor – 2, 3, 4, 5, 6, 7, 8 or 10
- EZ-IN - Pre-Installed in UL approved Flexible Outdoor Conduit
- Special conductor color combinations available
- Any combination from above

B. END FINISHES

- Plain End
- Flare Nuts on one or both ends
- Quick Connects on one or both ends
- Reflok flameless fittings on one or both ends
- Any combination from above

C. BENDS

- 90 degree bend w/ 1.5X long turn radius

MINI SPLIT OPTIONS (IN ADDITION TO THOSE LISTED ABOVE)

A. TWIN TUBE INSULATION

- Elastomeric Rubber (black)
- Polyethylene Insulation w/ InsulArmour 360PE (the “White Stuff”)
- Polyethylene Insulation w/ Aluminum InsulArmour 360PES (silver)

B. CONDENSATE DRAIN HOSE

- Available in clear and white in standard sizes

STANDARD LINE SETS - INSULATED
COPPER TUBE - MINI SPLIT LINE SETS



PART NUMBER EXPLANATION

61220500L = 3/8"x3/4"x1/2" ER insulation 50' long standard line set

The first digit is for the Liquid Line – 4= 1/4", 5= 5/16", 6= 3/8" & 8= 1/2"

The second and third digit is for the suction line – 6= 3/8", 8= 1/2", 10= 5/8", 12= 3/4", 14= 7/8" & 18 = 1-1/8"

The fourth digit is for the insulation wall and type – 8= 3/8" ER, 2= 1/2" ER, 3= 3/4" ER, 1= 1" ER, 5= 1/2" ER PE coated, 7 = 1/2" PE, 9 = 3/4" PE, 0= Special

The fifth, sixth and seventh digit is for length – 025= 25', 050= 50', 100= 100', etc.

The eight digit if for bends – 0 = No Bend, 1 = Suction Line Bend one end, 2 = Suction Line Bend one end 12" stub, 3= Special

EXPANDED PART NUMBER EXPLANATION

60880250B3B6L = 3/8"x1/2"x3/8" ER insulation 25' long flared end mini split

60880250M143L = 3/8"x1/2"x3/8" ER insulation 25' long flared end mini split w/ 14-3 Control Cable

60880250B6T143L = 3/8"x1/2"x3/8" ER insulation 25' long mini split w/ 14-3 Control Cable

60880250B8CTZ144L = 3/8"x1/2"x3/8" ER twin tube insulation 25' long mini split w/ EZ In 14-4 Control Cable

B3 = Both lines flared both ends

B6 = Both lines insulated

B8 = Twin Tube Insulation

M = Both lines insulated, flared and wire added

T = Wire Added

TP = Plenum Rated Wire Added

TS = Special Wire Added – Stranded, Shielded, Communication

TZ = EZ In wire added

C = Condensate drain added

PRE-INSULATED 20' ACR

Insulation Wall												
			1/2	3/4	1	1 1/2	2					
								1/2	3/4	1	1 1/2	2
ACR OD			LBS PER PKG					PCS PER PKG				
LBS PER FT	LBS PER PC											
3/8	0.126	2.52	189	101	63	30	18	75	40	25	12	7
1/2	0.198	3.96	249	139	87	44	28	63	35	22	11	7
5/8	0.285	5.70	296	177	114	57	34	52	31	20	10	6
3/4	0.362	7.24	297	203	130	72	43	41	28	18	10	6
7/8	0.455	9.10	300	228	155	82	55	33	25	17	9	6
1 1/8	0.655	13.10	288	262	183	105	66	22	20	14	8	5
1 3/8	0.884	17.68	283	283	212	124	71	16	16	12	7	4
1 5/8	1.140	22.80	296	296	228	137	91	13	13	10	6	4
2 1/8	1.750	35.00	280	280	280	175	105	8	8	8	5	3
2 5/8	2.480	49.60	298	298	298	198	149	6	6	6	4	3
3 1/8	3.330	66.60	266	266	266	200	133	4	4	4	3	2

EASY LINE SET DUCT KIT



FEATURES

- One Person Installation - Quick and easy for one person to install, for less time and labor costs!
- Paintable - All the pieces in the Kit are a neutral cream color and can easily be painted.
- Weather Resistant - Durable material can withstand almost any type of weather condition.
- UV Resistant - Will not discolor or breakdown under long periods of direct sunlight.
- Wide Temperature Range - Will not melt or crack in normal seasonal temperature extremes.

BENEFITS

- Snap Together / Quick and Easy - Every piece in this Duct Kit has been designed to fit together quickly and easily. Making your job a snap.
- Removable Protective Film - During installation, the protective film will help keep your job safe from damage, and can later be easily removed.
- Flexible Installation Options - With an adjustable corner piece you have many line direction options available to you.
- Indoor or Outdoor Use - This Kit is attractive enough to use inside or outside the home.

3 INCH SIZES

Item ID	Description	
CCDUE80	3" DUCT 3 1/8" X 2 3/8" X 6' 6"	8 ea
CCCSE80	3" COUPLING SLEEVE	10 ea
CCEBE80	3" ELBOW BEND	10 ea
CCEDTE80	3" END DUCT TERMINAL	10 ea
CCFBE80	3" FLAT BEND	10 ea
CCCBE80	3" CORNER BEND	10 ea
CCTJE80	3" TEE JOINT	10 ea
CCWTE80	3" WALL TERMINAL	10 ea
CCWDE80	3" WALL DUCT	10 ea
CCEF180	3" END FITTING	10 ea
CCABE80	3" ADJUSTABLE BEND	10 ea
CCFLES80	3" FLEXIBLE SLEEVE	10 ea

4 INCH SIZES

Item ID	Description	
CCDUE110	4" DUCT 4 1/8" X 2 3/8" X 6' 6"	8 ea
CCCSE110	4" COUPLING SLEEVE	10 ea
CCEBE110	4" ELBOW BEND	10 ea
CCEDTE110	4" END DUCT TERMINAL	10 ea
CCFBE110	4" FLAT BEND	10 ea
CCCBE110	4" CORNER BEND	10 ea
CCTJE110	4" TEE JOINT	10 ea
CCWTE110	4" WALL TERMINAL	10 ea
CCWDE110	4" WALL DUCT	10 ea
CCEF110	4" END FITTING	10 ea
CCABE110	4" ADJUSTABLE BEND	10 ea
CCOTP110	JOINT REDUCTION (DUE 110 TO DUE 80)	10 ea
CCFLES110	4" FLEXIBLE SLEEVE	10 ea

FOR MINI SPLITS AND CONVENTIONAL SPLIT SYSTEMS. AVAILABLE IN 3" AND 4" SIZES

Item ID	Description	
CCED3000SIUS00	3" EASY LINESET DUCT KIT	1 ea
CCED4000SIUS00	4" EASY LINESET DUCT KIT	1 ea

Kit Contents		
Part	Quantity	Description
Ducting	3	Cream colored pieces Each piece: 3'9" – 1.15m Total length: 11'3" – 3.45m
Coupler	2	Cream colored pieces Snaps on to hold 2 duct pieces together
Wall Inlet	1	Cream colored piece Fits easily on the end of the duct pieces
End Fitting	1	Cream colored piece Fits easily on the end of the duct pieces
Adjustable Elbow	1	Cream colored piece Hinges to create a 65°–130° angle

DUCTING

3 Cream colored pieces
Each piece: 3'9" - 1.15m
Total length 11'3" - 3.45m



COUPLER

2 Cream colored pieces
Snaps on to hold
2 duct pieces together



WALL INLET

1 Cream colored pieces
Fits easily to the
end of the duct pieces



END FITTING

1 Cream colored pieces
Fits easily on the
end of the duct pieces



ADJUSTABLE ELBOW

1 Cream colored pieces
Hinges to create
a 65°-130° angle



DELTA PACK



FOR USE WITH AIR CONDITIONING UNITS UP TO 5.6 TON

DESCRIPTION

The Delta Pack, which includes an Si-10 pump, is a complete kit intended for wall mounted air conditioning units up to 5.6 tons (67k Btu/h - 20 kW). The piston technology of the Si-10 is specifically designed for removing condensate from air conditioning systems. With the insulation foam and the wall mounted anti-vibration bracket, the pump's operating sound level will remain silent (23 dBA) whatever the amount of condensate.

APPLICATIONS

Air Conditioning - Ductless Systems

FEATURES & BENEFITS

New piston, patented technology

- Increased performance
 - The Si-10 replaces the SI1102 and the SI1200.
- High resistance to pollution
 - Capable of discharging small particles.
- Proven reliability
 - The patented technology inside the pump makes it extremely reliable in any environment

Low Sound Level

- Quiet in operation: 23 dBA independently tested.
- With noise insulation foam, antivibration brackets and direct wall mounting this pump is extremely silent.
- The size of the AC unit and amount of condensate does not affect the operational sound level of the pump.
- Mounting bracket has been designed to reduce vibration transmission to the wall.

Easy to Install Kit

- Complete installation kit – All the pieces you'll need to attractively conceal the condensate pump.
- Reversible – Enabling you to easily mount the pump on the right or the left side of the heat pump or AC unit.
- There are no visible edge to edge connections.
- Enough space for linesets – More room for routing 5/8" - 3/8" tubing

Energy Saving

- Improved performance and high flow rate reduce operation time and energy consumption.

Easy Plug-In Electrical Connection

- Quick plug-in power cord makes maintenance and replacement hassle free.

Item ID	Description
DP1000SIUS11	120V~60 Hz -14 W
DP1000SIUS23	230 V~50/60 Hz -14 W

Kit Contents	
Si-10 Piston pump with integrated float detection unit	Rubber joint for junction to the AC unit
Reversible, anti-vibration mounting bracket	Ceiling duct cover
Plug in power cable with 2 safety switch wires (5ft - 1.5m)	3 tie-wraps
Pump cover (flat bend)	4 screws, 4 wall anchors, and 2 washers
Duct: 30" (750mm) of 35/32"x 23/8" (80 x 60mm)	Vent tube 5/32" i.d. x L 215/16" (4 i.d. x L 75mm)
20" (500mm) of rubber tube 19/32" i.d. (15mm)	

Technical Specification	
Max. flow rate	5.0 gph (19 l/h)
Max. discharge head	33ft (10m); flow rate = 1 gph (4 l/h)
Max. pressure	46ft (14m); flow rate = 0 gph (0 l/h)
Sound level at 3.3ft (1m) according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	23 dBA
Power supply	120 V ~ 60 Hz - 14 W (DP1000SIUS11) 230 V ~ 50/60 Hz - 14 W (DP1000SIUS23)
Insulation class	II (double insulation)
Detection levels	On: 23/32" Off: 15/32" Alarm: 13/16" (On = 18mm, Off = 12mm, Alarm = 21mm)
Safety switch	NC 8A resistive - 250 V
Thermal protection (overheating)	194°F (90°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF
Protection	IP54
Safety standards	UL / CSA certified by Intertek
RoHS & DEEE directives	Compliant
Cover dimensions	L 61/2" x W 61/2" x H 23/8" (L 165 x W 165 x H 60mm)
Duct dimensions	L 30" x W 35/32" x H 23/8" (L 750 x W 80 x H 60mm)
Delta Pack packaging	3.3 lbs (1.5 kg) - L 301/4" x W 79/32" x H 23/4" (L 770 x W 185 x H 70mm)
Masterpack	10 pieces

HALSTEAD INSULATION



CLOSED CELL FLEXIBLE ELASTOMERIC FOAM INSULATION FOR HVAC/R APPLICATIONS

AVAILABILITY

Halstead Insulation is black in color and is available in non-slit, 6' length tube form in wall thicknesses of 3/8" up to 2" in diameter sizes ranging from 3/8" I.D. to 8" IPS. (ID range is subject to variation depending on wall thickness).

APPLICATIONS

Halstead Insulation is recommended for applications with service temperatures ranging from -297°F (-182°C) to +220°F (+104°C). For applications below -40°F (-40°C), contact Halstead technical support. The product is used to retard heat gain and prevent condensation or frost formation on below-ambient applications, including refrigerant, cold water plumbing, chilled water, and industrial process lines, among others. It can be used with heat tracing tapes. It also retards heat loss from medium hot systems, including hot water plumbing, liquid heating, dual temperature, and solar thermal piping, among others.

OUTDOOR APPLICATIONS

Halstead Insulation is made from a UV-resistant elastomeric blend. For low-to-moderate UV exposure (residential applications), no additional protection is needed. For severe UV exposure (rooftop applications) or for optimum performance, K-FLEX® 374 Protective Coating, approved jacketing.

UNDERGROUND APPLICATIONS

Halstead Insulation is acceptable for use in buried applications using the same installation principles as above ground applications. For lines above the water table, use a clean fill such as sand (3"-5" layer) to protect the insulation before backfilling. For optimum performance, the lines should be encased in a conduit to protect them from problems associated with ground water intrusion and compaction. If a conduit is not used, the insulation thickness should be increased by one thickness size to compensate for compaction.

INSTALLATION

Halstead Insulation is flexible (even at low temperatures), durable (non-fracturing and skin is resistant to tearing from handling and environment), safe to handle (non-dusting and non-abrasive), and lightweight for an efficient installation.

Halstead recommends that insulation is installed on non-operational systems with clean, dry surfaces in ambient conditions between 40°F and 100°F. Properly sized insulation tubing can be slid over piping (tubing should be pushed, not pulled) or, when applied to existing lines, can be slit lengthwise (using a sharp, non-serrated knife) and fitted into place. All seams, butt joints, termination points and open ends should be sealed with an approved contact adhesive, making sure both surfaces to be joined are coated. Longitudinal seams should face downward and vapor stops should be installed as needed. Fittings (elbows, tees, p-traps) and special parts (flanges, valves, etc.) can be field-fabricated from insulation tubes and sheets or factory-fabricated fittings can be used. ASTM C1710, Installation Guide for Flexible Closed Cell Foams, and the Halstead Installation Manual should be used as comprehensive installation guides.

FLAME AND SMOKE RATING

Halstead Insulation in wall thicknesses of 2" (50 mm) and below has a flame spread rating of 25 or less and a smoke development rating of 50 or less as tested to ASTM E84, "Surface Burning Characteristics of Building Materials". It is acceptable for duct/plenum applications, meeting the requirements of NFPA 90A/B.

Numerical flammability ratings alone may not define the performance of products under actual fire conditions. They are provided only for use in the selection of products to meet limits specified when compared to a known standard.



Specification Compliance
ASTM C534 Type 1, Grade 1
ASTM D1056-00-2B1
New York City MEA 186-86-M Vol. V
USDA Compliant
RoHS Compliant
UL 94-5V Flammability Classification (#E300774)
ASTM E84 25/50-rated (to 2") - tested to UL 723, NFPA 255 and CAN/ULC S102-03
FMVSS 302
FAR 25.853
FMRC Approval Guide: Chapter 14 Pipe Insulation
NFPA No. 101 Class A Rating
NFPA 90A, 90B
MIL-P-15280, Form T
Meets requirements of California ECB Title 24
UL GREENGUARD® Gold Certified
Meets energy code requirements of ASHRAE 90.1 and 189.1

HALSTEAD INSULATION



Physical Properties	INSUL-TUBE®	Test Method
Main Composition	Flame-retarded NBR/PVC-based elastomeric foam	
Thermal Conductivity (K) Btu-in/hr-Ft2-°F (W/mK)	90°F (32°C) Mean Temp 75°F (24°C) Mean Temp 32°F (0°C) Mean Temp 0.258 (0.0372) 0.245 (0.0353) 0.235 (0.0339)	ASTM C177
Density	3-5 lb/ft³	ASTM D1667
Operating Temperature Range	-297°F* (-183°C) to +220°F (+104°C)	ASTM C534
Water Vapor Permeability (Dry Cup)	<0.01 perm-in	ASTM E96
Water Absorption (Volume Change)	0%	ASTM C209
Flame Spread / Smoke Development (up to 2" wall)	<25/50	ASTM E84
Dimensional Stability	<7% Linear Shrinkage	ASTM C534
Hot Surface Performance (220°F)	No Cracking or Delamination	ASTM C411
Ozone Resistance	Pass	ASTM D1171
Odor Emissions	No Objectionable Odor	ASTM C1304
Chemical/Solvent/Oil/Grease Resistance	Good	Compatibility Data Available on Request
Flexibility	Excellent Pass: Cold Crack Test at -40°F (-40°C)	ASTM C534 ASTM D1056
Mildew Growth Resistance/Air Erosion	Pass	UL 181, ASTM G21
Corrosion Risk	pH neutral: 6.6±0.04	DIN 1988
Leachable Chlorides	<0.05% water-soluble chloride ions	DIN 1988
UV / Weather Resistance¹	Pass	QUV Chamber Test
Sound Transmission Class (1")	13	ASTM E90

*For applications below -40°F (-40°C), contact Halstead technical support.
¹Outdoor applications should be protected with an approved K-FLEX® coating or cladding.

Thickness Recommendations (To Prevent Condensation)												
Service Temperature	50°F (10°C)			35°F (2°C)			0°F (-18°C)			-20°F (-29°C)		
Pipe Size	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe	Mild	Normal	Severe
3/8" ID to 1-1/8" ID	3/8"	3/8"	3/4"	3/8"	1/2"	3/4"	1/2"	3/4"	1-1/2"	1/2"	1"	1-1/2"
1-3/8" ID to 3" IPS	3/8"	3/8"	3/4"	3/8"	3/4"	1"	1/2"	1"	1-1/2"	3/4"	1-1/2"	1-1/2"
4" IPS to 8" IPS	1/2"	1/2"	3/4"	1/2"	3/4"	1"	3/4"	1"	2"	3/4"	1-1/2"	2"

Thickness listed for the specified ranges will prevent condensation on indoor piping under the defined design conditions. Normal: 85°F and 70% R.H. Mild: Most air conditioned spaces and arid climates: 80°F and 50% R.H. Severe: Areas where excessive moisture is introduced or in poorly ventilated areas where the temperature may be depressed below the ambient: 90°F and 80% R.H. Contact Halstead technical support for additional information.

Pipe "R" Values Per Square Foot (All Sizes Are Nominal)						
Nominal Insulation ID	3/8" Wall	1/2" Wall	3/4" Wall	1" Wall	1-1/2" Wall	2" Wall
3/8"	2.7	3.6	5.6	8.5	14.6	20.4
1/2"	2.5	3.4	5.4	7.9	13.5	18.9
5/8"	2.5	3.3	5.4	7.5	12.8	17.8
3/4"	2.3	3.1	5.4	7.5	12.4	16.8
7/8"	2.3	3.2	5.4	7.2	11.6	16.1
1-1/8"	2.2	3.1	5.5	7.1	10.8	15.8
1-3/8"	2.2	3.2	5.3	7.3	10.2	14.9
1-5/8"	2.4	3.1	5.1	7.1	9.8	14.6
1-1/2" IPS	2.0	2.6	4.4	6.2	8.9	13.8
2-1/8"	2.3	3.0	4.9	6.6	9.2	13.6
2" IPS	2.3	2.9	4.8	6.5	9.0	13.3
2-1/2" IPS	2.3	3.0	4.6	6.3	8.6	12.6
2-5/8"	2.3	3.1	4.7	6.4	8.8	12.9
3-1/8"	2.3	3.0	4.6	6.2	8.5	12.4
3" IPS	2.3	3.2	4.6	6.1	8.3	12.2
3-5/8"	2.3	3.2	4.6	6.1	8.3	12.1
4-1/8"	2.3	3.1	4.6	6.0	8.1	11.7
4" IPS	2.2	3.2	4.6	5.5	8.0	11.6
5" IPS	—	3.0	4.5	5.7	7.7	11.1
6" IPS	—	3.0	4.4	5.6	7.5	10.9
8" IPS	—	2.9	4.2	5.3	7.2	—

HALSTEAD INSULATION



Item ID	Description	Armacell Part #	K-FLEX Part #
3/8" WALL			
RI601438	1/4 x 3/8	ACT01438	6RX038014
RI603838	3/8 x 3/8	ACT03838	6RX038038
RI601238	1/2 x 3/8	ACT01238	6RX038048
RI605838	5/8 x 3/8	ACT05838	6RX038058
RI603438	3/4 x 3/8	ACT03438	6RX038068
RI607838	7/8 x 3/8	ACT07838	6RX038078
RI611838	1-1/8 x 3/8	ACT11838	6RX038118
RI613838	1-3/8 x 3/8	ACT13838	6RX038138
RI615838	1-5/8 x 3/8	ACT15838	6RX038158
RI621838	2-1/8 x 3/8	ACT21838	6RX038218
RI625838	2-5/8 x 3/8	ACT25838	6RX038258
RI631838	3-1/8 x 3/8	ACT31838	6RX038318
1/2" WALL			
RI601412	1/4 x 1/2	ACT01412	6RX048014
RI603812	3/8 x 1/2	ACT03812	6RX048038
RI601212	1/2 x 1/2	ACT01212	6RX048048
RI605812	5/8 x 1/2	ACT05812	6RX048058
RI603412	3/4 x 1/2	ACT03412	6RX048068
RI607812	7/8 x 1/2	ACT07812	6RX048078
RI611812	1-1/8 x 1/2	ACT11812	6RX048118
RI613812	1-3/8 x 1/2	ACT13812	6RX048138
RI615812	1-5/8 x 1/2	ACT15812	6RX048158
RI621812	2-1/8 x 1/2	ACT21812	6RX048218
RI625812	2-5/8 x 1/2	ACT25812	6RX048258
RI631812	3-1/8 x 1/2	ACT31812	6RX048318
RI635812	3-5/8 x 1/2	ACT35812	6RX048358
RI641812	4-1/8 x 1/2	ACT41812	6RX048418
3/4" WALL			
RI603834	3/8 x 3/4	ACT03834	6RX068038
RI601234	1/2 x 3/4	ACT01234	6RX068048
RI605834	5/8 x 3/4	ACT05834	6RX068058
RI603434	3/4 x 3/4	ACT03434	6RX068068
RI607834	7/8 x 3/4	ACT07834	6RX068078
RI611834	1-1/8 x 3/4	ACT11834	6RX068118
RI613834	1-3/8 x 3/4	ACT13834	6RX068138
RI615834	1-5/8 x 3/4	ACT15834	6RX068158
RI621834	2-1/8 x 3/4	ACT21834	6RX068218
RI625834	2-5/8 x 3/4	ACT25834	6RX068258
RI631834	3-1/8 x 3/4	ACT31834	6RX068318
RI635834	3-5/8 x 3/4	ACT35834	6RX068358
RI641834	4-1/8 x 3/4	ACT41834	6RX068418
1" WALL			
RI601410	1/4 X 1	ACT01410	6RX100028
RI603810	3/8 X 1	ACT03810	6RX100038
RI601210	1/2 X 1	ACT01210	6RX100048
RI605810	5/8 X 1	ACT05810	6RX100058
RI603410	3/4 X 1	ACT03410	6RX100068
RI607810	7/8 X 1	ACT07810	6RX100078
RI611810	1-1/8 X 1	ACT11810	6RX100118
RI613810	1-3/8 X 1	ACT13810	6RX100138
RI615810	1-5/8 X 1	ACT15810	6RX100158
RI621810	2-1/8 X 1	ACT21810	6RX100218
RI625810	2-5/8 X 1	ACT25810	6RX100258
RI631810	3-1/8 X 1	ACT31810	6RX100318
RI635810	3-5/8 X 1	ACT35810	6RX100358
RI641810	4-1/8 X 1	ACT41810	6RX100418

Item ID	Description	Armacell Part #	K-FLEX Part #
1-1/2" WALL			
RI603815	3/8 X 1-1/2	APT03815	6RX150038
RI601215	1/2 X 1-1/2	APT01215	6RX150048
RI605815	5/8 X 1-1/2	APT05815	6RX150058
RI603415	3/4 X 1-1/2	APT03415	6RX150068
RI607815	7/8 X 1-1/2	APT07815	6RX150078
RI611815	1-1/8 X 1-1/2	APT11815	6RX150118
RI613815	1-3/8 X 1-1/2	APT13815	6RX150138
RI615815	1-5/8 X 1-1/2	APT15815	6RX150158
RI620015	1-1/2IPS X 1-1/2	APT11015	
RI621815	2-1/8 X 1-1/2	APT21815	6RX150218
RI625015	2IPS X 1-1/2	APT20015	
RI625815	2-5/8 X 1-1/2	APT25815	6RX150258
RI630015	2-1/2IPS X 1-1/2	APT21015	
RI631815	3-1/8 X 1-1/2	APT31815	6RX150318
RI635015	3IPS X 1-1/2	APT30015	
RI635815	3-5/8 X 1-1/2	APT35815	6RX150358
RI641815	4-1/8 X 1-1/2	APT41815	6RX150418
RI645015	4IPS X 1-1/2	APT40015	
RI611812	1-1/8 x 1/2	ACT11812	6RX048118
2" WALL			
RI603820	3/8 X 2	APT03820	6RX200038
RI601220	1/2 X 2	APT01220	6RX200048
RI605820	1/2 X 2	APT05820	6RX200058
RI603420	3/4 X 2	APT03420	6RX200068
RI607820	7/8 X 2	APT07820	6RX200078
RI611820	1-1/8 X 2	APT11820	6RX200118
RI613820	1-3/8 X 2	APT13820	6RX200138
RI615820	1-5/8 X 2	APT15820	6RX200158
RI620020	1-1/2IPS X 2	APT11020	
RI621820	2-1/8 X 2	APT21820	6RX200218
RI625020	2IPS X 2	APT20020	
RI625820	2-5/8 X 2	APT25820	6RX200258
RI630020	2-1/2IPS X 2	APT21020	
RI635020	3IPS X 2	APT30020	

HALSTEAD COPPER TUBING



1/4" TO 1-1/8" OD IN 35' & 50' COILS

FEATURES

- Annealed to ensure easy field installation
- Nitrogen purged for cleanliness
- Tightly sealed with caps to maintain cleanliness
- Engineered to support 700 PSI (up to 1-1/8")



Item ID	Description	Quantity Per Pack
CCH 040350	1/4"OD x 35' 700PSI Copper Tube	10
CCH 040500	1/4"OD x 50' 700PSI Copper Tube	10
CCH 060350	3/8"OD x 35' 700PSI Copper Tube	10
CCH 060500	3/8"OD x 50' 700PSI Copper Tube	10
CCH 080350	1/2"OD x 35' 700PSI Copper Tube	5
CCH 080500	1/2"OD x 50' 700PSI Copper Tube	5
CCH 100350	5/8"OD x 35' 700PSI Copper Tube	5
CCH 100500	5/8"OD x 50' 700PSI Copper Tube	5
CCH 120350	3/4"OD x 35' 700PSI Copper Tube	3
CCH 120500	3/4"OD x 50' 700PSI Copper Tube	3
CCH 140350	7/8"OD x 35' 700PSI Copper Tube	3
CCH 140500	7/8"OD x 50' 700PSI Copper Tube	3
CCH 180500	1-1/8"OD x 50' 700PSI Copper Tube	1

HALSTEAD COPPER FITTINGS



DESCRIPTION

Halstead Wrot Copper Fittings are made from 99.9% copper and manufactured to the specifications of ASME/ANSI B16.22 (material and workmanship) and MSS SP SP-109 (dimensional, material, and workmanship). Third party certified to Annex G of NSF/ANSI 61, fittings also comply with the “lead-free” requirements of the federal Reduction of Lead in Drinking Water Act. Halstead Wrot Copper Fittings are available in a wide variety of fitting types and connections, each engineered for precise fit and reliable performance.

FEATURES

- Made to ASME/ANSI B16.22
- Made from 99.9% copper
- Certified to NSF/ANSI 61-G
- Quality assurance tested



Item ID	Description	Quantity Per Pack
CCH 01010	3/8OD X 5/16OD CPLG	10
CCH 01023	5/8OD X 1/2OD CPLG	10
CCH 01029	3/4OD X 5/8OD CPLG	10
CCH 01035	7/8OD X 3/4OD CPLG	10
CCH 01049	1 1/8OD X 7/8OD CPLG	5
CCH 01003	1/4OD ROLL STOP CPLG	10
CCH 10142	5/16OD STAKE STOP CPLG	10
CCH 01009	3/8OD ROLL STOP CPLG	10
CCH 01017	1/2OD ROLL STOP CPLG	10
CCH 01022	5/8OD ROLL STOP CPLG	10
CCH 01028	3/4OD ROLL STOP CPLG	10
CCH 01034	7/8OD ROLL STOP CPLG	10
CCH 01047	1 1/8OD ROLL STOP CPLG	5
CCH 01306	3/8 FTG X 1/4OD FTG RED	10
CCH 01312	1/2 FTG X 3/8OD FTG RED	10
CCH 01315	5/8 FTG X 1/2OD FTG RED	10
CCH 01320	3/4 FTG X 5/8OD FTG RED	10
CCH 01325	7/8 FTG X 3/4OD FTG RED	10
CCH 01337	1 1/8 FTG X 7/8OD FTG RED	5
CCH 02028	3/4OD SR 90 ELL	10
CCH 02034	7/8OD SR 90 ELL	10
CCH 02047	1 1/8OD SR 90 ELL	5
CCH 02330	3/4OD FTG X C SR 90 ELL	10
CCH 02334	7/8OD FTG X C SR 90 ELL	10
CCH 02344	1 1/8OD FTG X C SR 90 ELL	5
CCH 02715	1/4OD LR 90 ELL	10
CCH 02710	5/16OD LR 90 ELL	10
CCH 02716	3/8OD LR 90 ELL	10
CCH 02717	1/2OD LR 90 ELL	10
CCH 02722	5/8OD LR 90 ELL	10
CCH 02728	3/4OD LR 90 ELL	10
CCH 02734	7/8OD LR 90 ELL	10
CCH 02747	1 1/8OD LR 90 ELL	5
CCH 02809	3/8OD FTG X C LR 90 ELL	10
CCH 02817	1/2OD FTG X C LR 90 ELL	10
CCH 02822	5/8OD FTG X C LR 90 ELL	10
CCH 02828	3/4OD FTG X C LR 90 ELL	10
CCH 02834	7/8OD FTG X C LR 90 ELL	10
CCH 02847	1 1/8OD FTG X C LR 90 ELL	5
CCH 03030	3/4OD 45 ELL	10
CCH 03034	7/8OD 45 ELL	10
CCH 03044	1 1/8OD 45 ELL	5
CCH 03330	3/4OD FTG X C 45 ELL	10
CCH 03334	7/8OD FTG X C 45 ELL	10
CCH 03344	1 1/8OD FTG X 45 ELL	5

SIMPULL THERMOSTAT™ WIRE

APPLICATIONS

SIMpull Thermostat™ Wire is a class 2 power-limited circuit cable for use in thermostat control applications

OVERVIEW

- Rated 150 Volt
- Sunlight-Resistant -20°C to +60°C
- 18 and 20 Gauge Copper Conductors
- SIM Jacket™ Designed for Easier Pulling



STANDARDS & REFERENCES

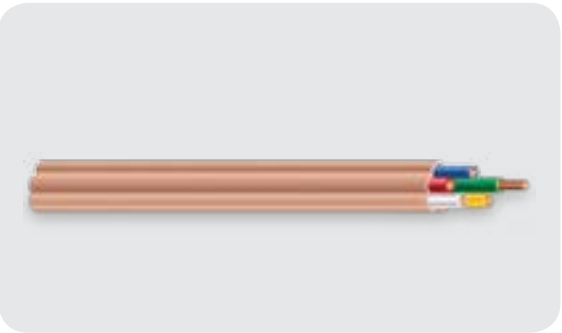
- 150 voltage rating per NEC® Article 725
- ETL listed to UL 13
- Meets UL 1685 Vertical Tray Flame Test
- Type CL2
- RoHS Compliant

CONSTRUCTION

Solid copper conductors with 6 mils of PVC insulation. Conductors are covered with brown PVC jacket using SIM (SlikQwik® Infused Membrane) for easier pulling resulting in easier installation. Ripcord.

Item ID	Size	SW Part #	Baron Part #	Standard Packaging	Color
Southwire					
CCT182	18/2 solid	641621xx	55302x	4 X 500' spools	Brown
CCT183	18/3 solid	641688xx	55303x	4 X 500' spools	Brown
CCT184	18/4 solid	658989xx	55304x	4 X 250' spools	Brown
CCT185	18/5 solid	641696xx	55305x	4 X 250' spools	Brown
CCT186	18/6 solid	550201xx	55306x	4 X 250' spools	Brown
CCT188	18/8 solid	656769xx	55308x	4 X 250' spools	Brown
CCT1810	18/10 solid	550656xx	55310x	4 X 250' spools	Brown
CCT205	20/5 solid	692095xx	55205x	4 X 250' spools	Brown
CCT208	20/8 solid	692129xx	55208x	4 X 250' spools	Brown

THERMOSTAT WIRE PLENUM RATED



APPLICATIONS

Thermostat Wire is a class 2 power-limited circuit cable for use in thermostat control applications.

OVERVIEW

- Rated 300 Volts
- Sunlight-Resistant -20°C to +60°C
- 18 Gauge Copper Conductors

APPLIES TO THE FOLLOWING:

- 18 gauge

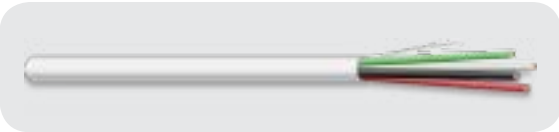
STANDARDS & REFERENCES

- 300 Voltage rating per NEC Article 725
- UL listed as per UL Standard 13
- Meets UL 1581 Vertical Tray Flame Test (FT-1)
- Type CL2P

CONSTRUCTION

Solid copper conductors with 9 mils of low smoke PVC insulation. Conductors are paralleled and covered with a beige PVC jacket.

MINI-SPLIT WIRE 300 VOLT SHIELDED



APPLICATIONS

Mini-Split Wire is a class 3 power-limited circuit cable used with HCAC Mini-Split systems. Also can be used in security and audio applications.

OVERVIEW

- 300 Volt
- CL3R
- PVC Jacket
- Rip Cord

APPLIES TO THE FOLLOWING:

- 14 gauge

STANDARDS & REFERENCES

- 300 voltage rating per NEC® Article 725
- Riser Rated
- UL listed per UL 13
- Meets UL 1581 Vertical Tray Flame Test
- Type CL3R
- RoHS Compliant

CONSTRUCTION

Stranded copper conductors with 10 mils of PVC insulation. The overall jacket is heat, moisture and sunlight resistant PVC. Overall aluminum mylar shield with 24 AWG tinned copper drain wire.

MINI-SPLIT TRAY CABLE 600 VOLT

Item ID	Size	SW Part #	Baron Part #	Standard Packaging	Color
Southwire					
CCTC144-50	14/4 stranded	58225705	604105008	20 X 50' (carton)	BLK (B,R,G,W)
CCTC144	14/4 stranded	58225703	604100408	4 X 250' (carton)	BLK (B,R,G,W)

APPLICATIONS

Tray cable is a multi-conductor control, signal or power cable rated for 600 volts. May be installed in raceways, conduit, cable trays and outdoor locations where supported by a messenger wire. Also suitable for direct burial. Temperature rated at 75°C wet locations / 90°C dry locations.

OVERVIEW

- 600 Volt
- 90°C Dry
- 75°C Wet
- PVC Jacket

APPLIES TO THE FOLLOWING:

- 14 gauge



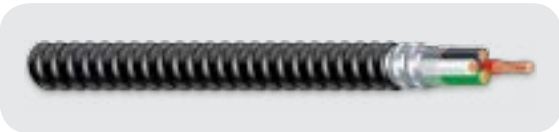
STANDARDS & REFERENCES

- UL listed as per UL 1277
- Conforms to applicable sections of UL 1581 and 1685
- RoHS Compliant
- Type TC

CONSTRUCTION

Stranded copper conductors Type THHN or THWN. The overall jacket is heat, moisture and sunlight resistant PVC.

EZ-IN™ MINI-SPLIT CABLE



APPLICATIONS

Southwire's EZ-In™ Mini-Split Cable can be installed without the use of conduit and may be installed indoors and outdoors in wet locations.

OVERVIEW

- 600 Volt
- 90°C Dry
- 75°C Wet
- Moisture and Sunlight Resistant

APPLIES TO THE FOLLOWING:

- 14 gauge

STANDARDS & REFERENCES

- The National Electrical Code® / NFPA 70
- ASTM B3, B787
- UL Spec. NO. 1569
- Rated for CT use
- Sunlight Resistant
- Direct Burial
- RoHS Compliant

CONSTRUCTION

Stranded bare copper THHN/THWN conductors with PVC insulation and Nylon jacket cabled together with an aluminum interlocking armor applied over the assembly. A moisture and sunlight resistant, flame retardant PVC jacket is applied over the armor.

ULTRA-WHIP® PRE-ASSEMBLED NON-METALLIC HOOK-UP WHIPS

OVERVIEW

- Rated 600 Volt
- Stranded Copper THHN/THWN Insulated Singles
- Green Insulated Copper Grounding Conductor
- Highly Flexible Non-Metallic Conduit with Factory Installed Conductors
- Liquidtight Flexible Non-Metallic Conduit Type B (LFNC-B) Fittings
- 12" Conductor Leads with ½" Insulation Stripped
- Intended for 208/240/480 Volt Single Phase Circuits

APPLICATIONS

- Complete assembly delivered from the factory ready to install. Includes 12" wire leads at each end and LFNC-B Fittings for easy and hassle-free hook-ups
- Resistant to rust, cracks and separation
- Non-metallic raceway is non-conducting
- Commonly used for connecting air conditioners, pumps, motors, compressors, swimming pool equipment and similar equipment



STANDARDS & REFERENCES

Ultra-Whip® is UL-listed under the Wiring Assemblies (QQYZ) category. Ultra-Whip® complies with NEC® Article 356, UL Standard 1660 and CSA Standard C22.2 No 227.2 for Liquidtight Flexible Non-metallic Conduit. The fittings meet UL Standard 514B, CSA Standard C22.2 No. 18 and NEMA FB-1.

CONSTRUCTION

Ultra-Whip® is a listed wiring assembly comprised of Listed or Recognized components intended for field installation in accordance with the National Electrical Code®. Ultra-Whip® is a non-metallic conduit constructed with two different PVC materials that are extruded to form a highly flexible product designed especially for electrical applications. A rigid material forms the stiff helical spring, which is completely encapsulated by a second flexible compound. Stranded Copper THHN/THWN conductors and UL Listed LFNC-B Fittings are installed at the factory. Twelve-inch wire leads are left exposed at each end for hassle-free hook-ups.

AIR CONDITIONING DISCONNECT BOXES



Item ID	PDB30F		
Replaces	DDS-30 MA-Line MA-FD30A	83316 Square D 755-30F	

- 30 amp A/C disconnect box
- Outdoor enclosure
- Metal
- 
- Fused
- 240 VAC
- Single phase
- Flip top door
- Nema type 3R



Item ID	PDB60F		
Replaces	DDS-60 MA-Line MA-FD60A	83317 Square D 755-60F	

- 60 amp A/C disconnect box
- Outdoor enclosure
- Metal
- 
- Fused
- 240 VAC
- Single phase
- Flip top door
- Nema type 3R



Item ID	PDB60NF		
Replaces	DDS-60U MA-Line MA-NFD60A	83315 Square D 755-60NF	

- 60 amp A/C disconnect box
- Outdoor enclosure
- Metal
- 
- Non-fused
- 240 VAC
- Single phase
- Flip top door
- Nema type 3R

POLYKEN® 337™



MULTI-PURPOSE PLAIN FOIL TAPE

APPLICATIONS

Sealing insulation materials and dryer vent connections. General repair and maintenance.

FEATURES

- Thick, conformable foil backing.
- High tack rubber adhesive system bonds strong to surfaces.
- Mold and mildew resistant.

Item ID	Color	Roll Width	Roll Length	UL 723 Classified	Low VOC
Polyken					
1087625	Aluminum	48 mm	46 m	Yes	Yes
1087632	Aluminum	2.5 in	50 yd	Yes	Yes
1087633	Aluminum	72 mm	110 m	Yes	Yes

POLYKEN® 338™

FOIL-SCRIM-KRAFT INSULATION JACKETING TAPE

APPLICATIONS

Sealing insulation materials (particularly FSK backed jacketing) and dryer vent connections. General repair and maintenance.

FEATURES

- FSK laminate backing is tear resistant and durable.
- Matches FSK jacketed insulation for professional-looking installation.
- High tack, aggressive adhesive forms permanent bonds.
- Mold and mildew resistant.



Item ID	Color	Roll Width	Roll Length	UL 723 Classified	Low VOC
Polyken					
1087651	Aluminum	48 mm	46 m	Yes	Yes
1087668	Aluminum	72 mm	46 m	Yes	Yes

POLYKEN® 339™



COLD WEATHER PREMIUM UL LISTED FOIL TAPE

APPLICATIONS

Sealing connections and joints in class 1 flexible duct, rigid fiberglass duct, and rigid sheet metal duct. Sealing dryer vents. Insulation seaming and patching.

FEATURES

- High tack cold weather acrylic adhesive.
- Heavy duty foil is conformable to curves and corners.
- Long-term air-tight seals for optimal energy efficiency.
- Excellent extreme temperature performance (-20 to 325 F)

Item ID	Color	Roll Width	Roll Length	UL 181A-P Listed	UL 181B-FX Listed	Low VOC
Polyken						
1087636	Printed Aluminum	2.5 in	60 yd	Yes	Yes	Yes
1087637	Printed Aluminum	72 mm	55 m		Yes	Yes

POLYKEN® 360-17™ FOILASTIC® SEALING TAPE

FOILMASTIC PREMIUM BUTYL SEALING TAPE

APPLICATIONS

Sealing duct joints. Heavy duty sealing, patching, and repairs. Waterproof seals and sheet metal repairs..

FEATURES

- Super thick butyl rubber adhesive provides instant watertight, permanent seals.
- Excellent resistance to heat/cold, sunlight, and water.
- Paintable foil backing.
- Conformable.



Item ID	Color	Roll Width	Roll Length	Tested in accordance with UL 723	Low VOC
Polyken					
1087779	Printed Aluminum	48 mm	31 m	Yes	Yes
1086608	Printed Aluminum	2.5 in	100 ft	Yes	Yes
1087780	Printed Aluminum	72 mm	31 m	Yes	Yes

HVAC Tape & Adhesives | FILM TAPE

BERRY® FLEXFIX™ 555



CONTRACTOR GRADE UL LISTED FILM TAPE

APPLICATIONS

Sealing class 1 flexible duct joints and connections. Sealing and patching bubble and reflective insulation materials. Sealing dryer vent connections.

FEATURES

- Strong film backing is easy to tear by hand, yet tough for long-term wear.
- All-temperature acrylic adhesive (-10 to 250 F)
- Mold and mildew resistant.

Item ID	Color	Roll Width	Roll Length	UL 181B-FX Listed	Low VOC
Berry					
1087409	Black - Printed	48 mm	110 m	Yes	Yes
1087415	Black - Printed	72 mm	110 m	Yes	Yes
1087407	Metallic - Printed	48 mm	110 m	Yes	Yes
1087408	Metallic - Printed	72 mm	110 m	Yes	Yes

POLYKEN® 223™



MULTI-PURPOSE 10 MIL DUCT TAPE

APPLICATIONS

General sealing, patching, repairing, and bonding. Hangs/seals lightweight poly sheeting. Plumbing applications.

FEATURES

- Bonds well to smooth and slightly rough surfaces.
- Low-residue removal.
- Clean, crisp tear by hand.

Item ID	Color	Roll Width	Roll Length	Tested in accordance with UL 723	Low VOC
Polyken					
1086550	Silver	48 mm	55 m	Yes	Yes
1086564	Black	48 mm	55 m	Yes	Yes

POLYKEN® 227™

CONTRACTOR GRADE 11 MIL DUCT TAPE

APPLICATIONS

Contractor performance duct tape for tough repair, patch and bundling applications. Indoor/outdoor uses.

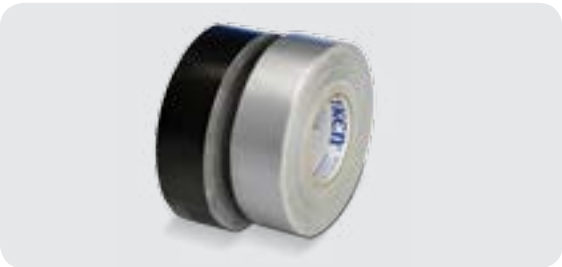
FEATURES

- Bonds well to smooth and rough surfaces.
- Good shear strength to withstand vertical stresses.
- Clean, crisp tear by hand.
- Low-residue removal.



Item ID	Color	Roll Width	Roll Length	Tested in accordance with UL 723	Low VOC
Polyken					
1086700	Black	48 mm	55 m	Yes	Yes
1086683	Silver	48 mm	55 m	Yes	Yes

POLYKEN® 229™



PREMIUM GRADE 12 MIL DUCT TAPE

APPLICATIONS

Heavy-duty seal, patch, repair, and bond. Indoor/outdoor uses. Hanging and seaming heavy poly sheeting.

FEATURES

- Bonds well to all surfaces.
- Excellent shear strength
- Durable, heavy-duty poly/cloth backing.
- Clean, crisp tear by hand.

Item ID	Color	Roll Width	Roll Length	Tested in accordance with UL 723	Low VOC
Polyken					
1086697	Black	48 mm	55 m	Yes	Yes
1086696	Silver	48 mm	55 m	Yes	Yes

POLYKEN® 557™



14 MIL PREMIUM UL LISTED DUCT TAPE

APPLICATIONS

Sealing class 1 flexible duct joints and connections. Heavy duty bundling and jobsite repairs.

FEATURES

- Super thick adhesive for durable air-tight seals.
- Heavy-duty poly/cloth backing is conformable and strong.
- Easy to install.

Item ID	Color	Roll Width	Roll Length	UL 181B-FX Listed	Low VOC
Polyken					
1086939	Silver - Printed	48 mm	55 m	Yes	Yes
1086935	Silver - Printed	72 mm	55 m	Yes	Yes
1086928	Black - Printed	48 mm	55 m	Yes	Yes
1086929	Black - Printed	72 mm	55 m	Yes	Yes
1086930	Metallic - Printed	48 mm	55 m	Yes	Yes
1086933	Metallic - Printed	72 mm	55 m	Yes	Yes

POLYKEN® 558CA™



14 MIL PREMIUM UL LISTED DUCT TAPE
CEC APPROVED

APPLICATIONS

Sealing class 1 flexible duct joints and connections. Heavy duty bundling and jobsite repairs.

FEATURES

- Super thick adhesive for durable air-tight seals.
- Heavy-duty poly/cloth backing is conformable and strong.
- Easy to install.

Item ID	Color	Roll Width	Roll Length	UL 181B-FX Listed	Low VOC
Polyken					
1086801	Metallic - Printed	48 mm	55 m	Yes	Yes

K-FLEX® ELASTOMERIC FOAM TAPE



DESCRIPTION

K-FLEX® Elastomeric Foam Tape is an effective alternative to tubing insulation in tight areas where traditional insulation will not suffice. This tape is 1/4" or 1/8" thick x 2" wide x 30' long and contains pressure sensitive adhesive (PSA) that allows the product to be wrapped around the pipe to reach desired thicknesses in restrictive areas.

K-FLEX® Elastomeric Foam Tape is made from the same elastomeric material as K-FLEX tubes and sheets, meaning it provides the same great moisture-resistance and thermal properties. The factory-applied pressure-sensitive adhesive (PSA) adheres firmly and forms a long-lasting bond, while the closed cell structure of the product provides good thermal and low moisture permeability properties.

APPLICATIONS

K-FLEX® Elastomeric Foam Tape is used to retard heat gain and prevent condensation or frost formation on cold water plumbing, chilled water, and refrigeration lines. It also reduces heat flow for hot water plumbing, liquid heating, and dual temperature piping.

K-FLEX® Elastomeric Foam Tape is ideal for insulating short runs of pipes or valves and fittings where it is impractical to install tubing insulation. The tape can be applied in multiple wraps (thickness) to meet various service conditions.

Thickness Recommendations (Layers of 1/8" Tape)		
Ambient Conditions	50°F (10°C) Process Temperature	32°F (0°C) Process Temperature
77°F (25°C) / 50% RH	1 Layer	2 Layers
85°F (29°C) / 70% RH	3 Layers	4 Layers

Physical Properties	K-FLEX® Foam Tape	Test Methods
Main Composition	Flame-retarded NBR/PVC-based elastomeric foam with a solvent-free, acrylic dispersion high tack adhesive with good resistance to moisture and aging	
Thermal Conductivity (Btu-in/hr-Ft2-°F) 75°F (24°C) Mean Temp	0.245	ASTM C177
Density	3-5 lb/ft3	ASTM D1667
Operating Temperature Range	-40°F (-40°C) to +200°F (+93°C)	ASTM C534
Water Vapor Permeability (Dry Cup)	<0.01 perm-in	ASTM E96
Water Absorption (Volume Change)	0%	ASTM C209
Flame Spread / Smoke Development (up to 2")	<25/50	ASTM E84
Flexibility	Pass: Cold Crack Test at -40°F (-40°C)	ASTM D1056
Freight Classification	Tape, insulation, NOIBN. No label required.	
Adhesive Thickness	0.07 mm	
Adhesive Peel Resistance	≥20 N / 25 mm	DIN EN 1939
Adhesive Shear Adhesion	500 g/625 mm2	DIN EN 1943

K-FLEX® CORK INSULATION TAPE

DESCRIPTION

K-FLEX® Cork Insulation Tape is a tacky, rubber-like tape that is designed for use on heating, air conditioning, refrigeration and plumbing applications. In addition, this tape can be efficiently used on hot pipes and provides insulation and prevents condensation on pipes and fittings. K-FLEX® Cork Insulation Tape is soft and pliable and can be molded around fittings and connections without the use of separate adhesives or fasteners.



Physical Properties	K-FLEX® Cork Tape	Test Methods
Main Composition	Polymer-based material containing butyl rubber, asphalt, and granulated cork (55% by volume)	
Specific Gravity	75±.05	ASTM D71
Solids Content	99.8%	ASTM C771
Thermal Conductivity (Btu/Ft2-hr-°F/in)	1.26	ASTM C177
Operating Temperature Range	-20°F (-29°C) to +190°F (+88°C)	
Water Vapor Permeability (Procedure C)	<0.21 perms	ASTM E96
Water Absorption (% by volume)	0.02%	ASTM D1056
Flash Point	>+390°F (+199°C)	
Ozone Resistance	Excellent	
Flexibility	Excellent	
Odor	Slight Odor of Asphalt	
Freight Classification	Class 55, Item #149610, NOIBN	
Elongation	50% minimum	Internal test method
Direct Tension Adhesion	12 psi minimum	ASTM C987
Peel off Force	30 N (6.75 lbs) minimum	Internal test method

K-FLEX® CONTACT ADHESIVES



FLEX® 373 Contact Adhesive

DESCRIPTION

K-FLEX® 373 Contact Adhesive is designed for spray applications using conventional spray heads for solvent-based adhesives. This blue adhesive is excellent for joining seams and butt joints of elastomeric pipe and sheet insulation, providing a heat-resistant and moisture-resistant bond.

Caution: Adhesive contains notable solvents and containers not in use should be kept closed. Keep adhesive away from sparks and open flames. Use with adequate ventilation and avoid excessive contact with the skin.

APPLICATIONS

K-FLEX® 373 Contact Adhesive may be used for bonding elastomeric products to a variety of materials (i.e., other elastomers, metal, plastics, wood, etc.). The adhesive will make a resilient and heat-resistant bond. It is suitable for line temperatures up to 220°F (104°C) on applications requiring bonded seams and joints. When the adhesive is applied to large flat or curved surfaces, it is suitable for temperatures up to 200°F (93°C). See Technical Bulletin TA1 for equipment recommendations.

The product is supplied in a variety of sizes ranging from 1/2 pint brush top containers to gallon containers. Larger containers are available upon request.

Physical Properties	K-FLEX® 373 Contact Adhesive
Color	Blue
Base	Synthetic Rubber
Solvents	Aliphatic, Aromatic, Ketone
Viscosity	Thin Syrup
Weight	6.8 lbs/gal
Shelf Life	12 months in original sealed container. Storage temperature of 60°F is recommended.
Minimum Dry Time	5 - 10 minutes under normal conditions. Drying can be accelerated by using forced ventilation and/or heat.
Open Time	Not to exceed 10 minutes.
High Temperature Limits	220°F (104°C) for pipe insulation seams and joints. 200°F (93°C) for full bonding sheets.
VOC (Volatile Organic Compounds) Content	593 g/L
Flash Point	Less than -4°F
Flammability	ASTM E84 <25/50-rated (5/5 when tested to UL 723)
Specification Compliance	Meets Mil-A-24179A, Type 2, Class 1 Amendment 2 (QPL #RUBQA-373)
Freight Classifications	Adhesive NOS. Flammable Liquid 4620 Sub 5, Class 60, UN 1133, IMDG class 3.1 PG:11 (packaging group II)
Solid Content	20% by weight
Coverage	200 - 300 ft2/gal (one surface)



K-FLEX® 320 Contact Adhesive



K-FLEX® 620 Contact Adhesive

DESCRIPTION

K-FLEX® 320 and 620 Contact Adhesives are fast drying amber (320) and black (620) colored neoprene contact adhesives that are ideal for bonding porous or non-porous material. This adhesive is a thicker consistency, non-runny and can be applied with a brush or a roller.

K-FLEX® 320 and 620 Contact Adhesives are a reliable way to join seams and butt joints of elastomeric pipe and sheet insulation. For more information, please consult our technical data sheet. **K-FLEX® 320 and 620 Contact Adhesives'** higher solids content allows for it to be brushed or roller-applied easily without running. They are ideal for bonding porous and non-porous materials, as they will not be absorbed easily.

APPLICATIONS

K-FLEX® 320 and 620 Contact Adhesives are suitable for line temperatures up to 220°F (104°C) on applications requiring bonded seams and joints. When applied to large flat or curved surfaces, it is suitable for temperatures up to 200°F (93°C). The products are supplied in a variety of sizes ranging from pint brush top containers to gallon containers. Larger containers are available upon request.

Caution: Adhesive contains notable solvents and container not in use should be kept closed. Keep adhesive away from sparks and open flames. Use with adequate ventilation and avoid excessive contact with the skin. The surface may be allowed to dry and solvent reactivated by wiping with a toluene dampened cloth. Thinning the adhesive is not recommended. Common lacquer thinners can be used for clean up.

Physical Properties	K-FLEX® 320 / 620 Contact Adhesives
Color	Amber (320), Black (620)
Base	Neoprene
Solvents	Acetone, Toluene, Hexane
Viscosity	Medium Syrup
Weight	6.98 ± 0.2 lbs/gal
Shelf Life	12 months in original sealed container. Storage temperature 60°F.
Minimum Dry Time	2 - 4 minutes under normal conditions.
Open Time	Not to exceed 10 minutes.
High Temperature Limits	220°F (104°C) for pipe insulation seams and joints 200°F (93°C) for full bonding sheets
VOC (Volatile Organic Compounds) Content	447 g/L
Flash Point	Less than -4°F
Flammability	ASTM E84 25/50-rated (10/0 when tested to UL 723)
Freight Classifications	Adhesives NOS. Flammable Liquid 4620 Sub 5, class 60, Un 1133, IMDG class 3.1 PG:11 (packaging group II)
Solid Content	25% ± 2%
Coverage	200 ft2/gal (one surface)

SI-1801 CENTRIFUGAL TANK PUMP



FOR CONDENSING BOILERS & FURNACES, AIR CONDITIONERS AND REFRIGERATED DISPLAY CABINETS

DESCRIPTION

The SI-1801 pump is designed to be easily installed whatever the layout of the project. It's capable of evacuating up to 132 gph (500 l/h), and is suitable for air conditioning units and industrial refrigeration displays. "Built to Resist", the SI-1801 can tolerate charged, high temperature and mild acidic condensate (pH>2.5) produced by condensing boilers and furnaces.

APPLICATIONS

Air Conditioning, Refrigeration, Heating.

- High efficiency furnaces
- Condensing boilers
- Column AC units
- Refrigerated displays
- Cold store cabinets
- Multi-cassettes
- Ducted units
- Evaporators
- Ice machines

FEATURES & BENEFITS

High Performance

- Can discharge condensate up to 18ft (5.5m) at 50Hz, 21ft (6.4m) at 60Hz.
- Up to 132 gph (500 l/h), for shorter running time.
- Low sound level
 - Quiet operation.

High Resistance

- Oil and acid resistant float.
- Mechanical structure resistant to shocks. Many Installation Options
- Pump can be floor mounted, attached to a wall or hung from a ceiling.

Versatile

- Easily removable tank for simple maintenance and algae control.
- Reversible pump allows mounting on either side of the installation, and the choice of which side the water exits the pump.

Easy Connection

- New quarter turn, easily removable check valve, designed to facilitate 3/8" i.d. (10mm) hose plug in.
- 4 inlet holes 13/16" o.d. (30mm).

Item ID	Description
SI1801SCUS11	120V ~ 23ft
SI1801SCUS23	230V ~ 23ft
SI1800US11	120V ~ 15ft
SI1801US11/T	120V ~ 23ft – includes tubing
SI1801US23/T	230V ~ 23ft – includes tubing

Kit Contents	
One-piece centrifugal pump with 1/2 gal. (2L) tank	Safety switch wires, 1ft (0.3m), bare ends
Integrated barb end check valve 3/8" o.d. (10mm)	Adaptor 5/8" i.d. - 3/4" i.d. - 1" i.d. - 1 1/4" i.d. - 1 1/2" i.d. (15/17 - 20 - 24/25 - 32 - 40mm)
Power cord, 6ft (1.8m), with plug (120 or 230V type)	2 screws, 2 wall anchors

Technical Specifications	
Max. flow rate	132 gph (500 l/h)
Max. discharge head Flow = 13 gph (50 l/h)	21ft (6.4m) @ 60Hz 18ft (5.5m) @ 50Hz
Max. pressure (flowrate = 0)	23ft (7.0m) @ 60Hz 19ft (5.8m) @ 50Hz
Sound level in application at 3.3ft (1m) (Measured in Sauer mann acoustic lab, pump operating with water)	≤ 45 dBA
Power supply	120 V ~ 60 Hz - 85 W - 1.45A 230 V ~ 50/60 Hz - 80 W - .72A
Detection levels	On: 23/32" Off: 121/32" Alarm: 21/2" (On = 53mm, Off = 42mm, Alarm = 64mm)
Safety switch	NC 4A resistive - 42 V peak
Max. condensate temperature	150°F (65°C), short peak 176°F (80°C) – 1min
Max. condensate acidity	pH > 2.5 (Condensing boilers)
Thermal protection (overheating)	248°F (120°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF
Protection	IP20
Safety standards	UL / CSA certified by Intertek
RoHS & WEEE directives	Compliant
Weight (including box)	5.5 lbs (2.5 kg)
Masterpack	5 pieces



SI-30 MINI CONDENSATE REMOVAL PUMP

FOR USE WITH AIR CONDITIONING UNITS UP TO 5.6 TON

DESCRIPTION

The high performance Si-30 is suitable for air-conditioning units up to 5.6 tons (67k Btu/h - 20 kW). The patented piston technology is specifically designed for removing condensate from air conditioning systems. The Si-30 is fully reliable in any kind of environment. Its operating sound level will remain silent (20 dBA) whatever the amount of condensate.



APPLICATIONS

Air Conditioning

- Ductless systems
- Ceiling suspended units
- Ducted units
- Fan-coils

FEATURES & BENEFITS

New piston, patented technology

- Increased performance
 - The Si-30 replaces the Si3100 and the Si3200.
- High resistance to pollution
 - Capable of discharging small particles.
- Proven reliability
 - The patented Sauer mann technology inside the pump makes it fully reliable, in any kind of environment.

Silent Operation

- Quiet in operation: 20 dBA independently tested.
- The size of the air-conditioning unit and amount of condensate to be removed does not affect the operational sound level of the pump.

Easy to install

- Compact design fits in tight spaces.
- All-purpose mounting bracket
 - Allows the pump to be easily mounted on walls, ceilings or pipework.
 - Designed to reduce vibration transmission to the wall, panel, pipes or linesets.
- Plug-in power cord makes maintenance and replacement hassle free.

Energy saving

- Improved performance and high flow rate reduce operation time and energy consumption.

Item ID	Description
SI3000SIUS11	120 V~60 Hz -14 W
SI3000SIUS23	230 V~50/60 Hz -14 W

Kit Contents	
Si-30: Piston pump	Rubber elbow 90° (for Detection unit) 19/32" i.d. x 23/8" (15 i.d. x L 60mm)
Anti-vibration mounting bracket	Vent tube (for Detection unit) 5/32" i.d. x L 215/16" (4 i.d. x L 75 mm)
Plug in power cable with 2 safety switch wires (5ft - 1.5 m)	Mounting rail and adhesive (for Detection unit)
Detection unit Si2958, with (5 ft - 1.5m) cable	6 tie wraps, 1/10" x 4" (2.5 x 100mm)

Technical Specifications	
Max. flow rate	5.0 gph (19 l/h)
Max. suction head	10 ft (3m)
Max. discharge head	33ft (10 m); flow rate = 1gph (4l/h)
Max pressure	46 ft (14 m); flow rate = 0 gph (0l/h)
Sound level at 3.3ft (1m) according to EN ISO 3744 (Measured at LNE lab, pump operating with water, out of application)	20 dBA
Power supply	120V ~ 60 Hz - 14 W (SI3000SIUS11) 230 V ~ 50/60 Hz - 14 W (SI3000SIUS23)
Insulation class	(double insulation)
Detection levels	On: 5/8" Off: 7/16" Alarm: 3/4" (On=16mm, Off=11mm, Alarm=19mm)
Safety switch	NC 8A resistive - 250 V
Thermal protection (overheating)	194°F (90°C) auto-reset
Intermittent operation cycle	30%: 3s ON – 7s OFF
Protection	IP20
Safety standards	UL / CSA certified by Intertek
RoHS & DEEE directive	Compliant
Packaging	0.90 lbs (0.41 kg) L 4 2/5" x W 33/5" x H 3 3/5" (L 112 x W 91 x H 91mm)
Masterpack	25 pieces

BLUE MAX CONCENTRATE



Item ID	Size
CCUBBM-L1G	1 Gallon
CCUBBM-L2G	2.5 Gallon
CCUBBM-L5G	5 Gallon

DESCRIPTION

ChemChill Ultra Bright® Blue Max Concentrate is a high-foaming, alkaline cleaner and brightener that effectively cleans away deposits from outdoor air-cooled condensers. This water rinse formula is non-acid and biodegradable.

POWER-EVAP CONCENTRATE



Item ID	Size
CCUBPE-L1G	1 Gallon
CCUBPE-L2G	2.5 Gallon
CCUBPE-L55G	55 Gallon
CCUBPE-L5G	5 Gallon

DESCRIPTION

ChemChill Ultra Bright® Power-Evap Concentrate is a non-foaming alkaline cleaner that effectively cleans away stubborn deposits from indoor evaporator coils. This enviro-safe no rinse formula is non-avid and biodegradable.

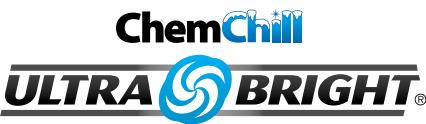
POWER FOAM CONCENTRATE



Item ID	Size
CCUBPF-L1G	1 Gallon
CCUBPF-L2G	2.5 Gallon
CCUBPF-L55G	55 Gallon

DESCRIPTION

ChemChill Ultra Bright® Power Foam Concentrate is a multi-purpose, foaming alkaline cleaner and brightener that effectively cleans away deposits from air-cooled condensers, evaporator coils, permanent filters, fan blades and more. This formula is non-acid and biodegradable.



TRIPLE PLAY™ CONCENTRATE



Item ID	Size
CCUBTP-L1G	1 Gallon

DESCRIPTION

ChemChill Ultra Bright® Triple Play Concentrate is a universal alkaline cleaner and degreaser which effectively foams away stubborn deposits from air-cooled condensers, evaporator coils and permanent filters. This no-rinse formula is non-acid, non-toxic and biodegradable.

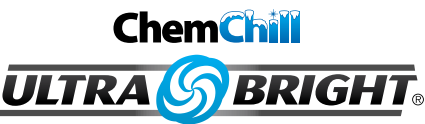
HEAVY DUTY MULTI-CLEAN CONCENTRATE



Item ID	Size
CCUBMC-L1G	1 Gallon
CCUBMC-L2G	2.5 Gallon

DESCRIPTION

ChemChill Ultra Bright® Heavy Duty Multi-Clean Concentrate is a non-foaming, extra-strong alkaline cleaner specifically engineered to remove grease, dirt, dust and tar from electronic air filters. Water rinse formula is non-acid and biodegradable.



DESCRIPTION

ChemChill Ultra Bright® Pink Power™ Concentrate removes deposits from condenser and evaporator coils. It saves time while providing fast and effective cleaning results. Stable foam clings to surfaces for thorough cleaning, yet is quickly rinsed away leaving the surface film-free. Cleans and brightens in a single step. Highly concentrated and specially developed for the professional in the HVACR industry. For use with outdoor units, including rooftop units.*

**For metal roofing, test product corrosiveness on a small, inconspicuous section prior to use.*

Item ID	Size
CCPZM4G-L1G	1 Gallon
CCPZM4G-L5G	2.5 Gallon
CCPZM4G-L55G	55 Gallon



ICE CLEAN™ ICE MACHINE CLEANER



Item ID	Size
CCIMC-L1G	1 Gallon
CCIMC-L8	8 Ounce
CCIMC-L16	16 Ounce

ChemChill Ultra Bright® Ice Clean™ Ice Machine Cleaner removes mineral and hard water scale build-up to keep ice machines running smoothly and efficiently. Fast and economical for use with all commercial ice machines, regular use of **ChemChill Ultra Bright® Ice Clean™ Ice Machine Cleaner** minimizes service calls, reduces operational costs and improves the quality of ice. **ChemChill Ultra Bright® Ice Clean™ Ice Machine Cleaner** is highly concentrated for greater economy and effectiveness.

METAL SAFE FORMULA ICE CLEAN™ ICE MACHINE CLEANER



Item ID	Size
CCIMCMS-L16	16 Ounce
CCIMCMS-L1G	1 Gallon

ChemChill Ultra Bright® Metal Safe Formula Ice Clean™ Ice Machine Cleaner removes mineral and hard water scale build-up to keep ice machines running smoothly and efficiently. Fast and economical for use with all commercial ice machines, regular use of **ChemChill Ultra Bright® Metal Safe Formula Ice Clean™ Ice Machine Cleaner** is safe to use on nickel, stainless steel, chrome, plastic and fiberglass surfaces. Highly concentrated for greater economy and effectiveness.

CLEAN AWAY™ LIQUID SCALE DISSOLVER



Item ID	Size
CCSR-L1G	1 Gallon
CCSR-L5G	5 Gallon
CCSR-L55G	55 Gallon

ChemChill Ultra Bright® Clean Away™ Liquid Scale Dissolver easily removes calcium carbonate, rust, slime, sludge and mineral deposits that affect normal system operation and performance. Low foaming with corrosion inhibitors, this fast-acting formula is safe for use on copper, iron, brass, steel, rubber and plastic surfaces. **ChemChill Ultra Bright® Clean Away™ Liquid Scale Dissolver** is the professional's choice for performance.

ChemChill | GAS LEAK DETECTOR

BLUE HOUND™ GAS LEAK DETECTOR



Item ID	Size
CCBHLD -1Q	1 Quart
CCBHLD -1G	1 Gallon

ChemChill Ultra Bright® Blue Hound™ Gas Leak Detector accurately identifies potentially hazardous and damaging leaks of refrigerants, oxygen and natural gas. Highly sensitive **Blue Hound™ Gas Leak Detector** quickly and easily identifies even small leaks with the sensitivity approaching that of expensive electronic leak detectors.

The non-corrosive formulation is safe to use on metal, plastic, solder, joints, gaskets and fittings. **Blue Hound™ Gas Leak Detector** provides a uniform clinging film, and if leaks are present, generates a stable foam for better detection. Effective even in the presence of common soils and moisture. **Blue Hound™ Gas Leak Detector** works in temps as low as -5°F (freezing point around -8°F).



DESCRIPTION

ChemChill | AEROSOLS

MULTI-BLAST MULTI COIL CLEANER



Item ID	Size
CCUBMB-A18	18 Ounce

DESCRIPTION

ChemChill Ultra Bright® Multi-Blast Multi Coil Cleaner is easy and safe to use on condensers and evaporators. A specific "water rinse formula" condenser coil cleaner in a convenient aerosol package. Using a high pressure blast and foam that cleans and restores efficiency of condenser coils, quickly and easily. Perfect for removing grease & oil on condenser coils.

BLAST AWAY PREMIUM CONDENSER COIL CLEANER



Item ID	Size
CCUBBA-A18	18 Ounce

DESCRIPTION

ChemChill Ultra Bright® Blast-Away Premium Condenser Coil Cleaner is a solvent based, VOC Compliant condenser cleaner. **ChemChill Ultra Bright® Blast-Away Premium Condenser Coil Cleaner** uses a high pressure spray to blast away grease, grime, dirt and debris from condenser coils. Does not require rinsing after use. Leaving the coil clean and with no residue, can also be used on condenser fans.

EVAP-CLEAN PREMIUM EVAPORATOR CLEANER



Item ID	Size
CCUBEC-A19	19 Ounce

DESCRIPTION

ChemChill Ultra Bright® Evap-Clean Premium Evaporator Cleaner is easy and safe to use on all evaporators and coils. **ChemChill Ultra Bright® Evap-Clean Premium Evaporator Cleaner** is a self emulsifying foam for deep cleaning. **ChemChill Ultra Bright® Evap-Clean Premium Evaporator Cleaner** is self rinsing on evaporator units that generate high amounts of condensation.



PREMIUM ELECTRICAL CONTACT CLEANER



Item ID	Size	DESCRIPTION
CCECC-A11	11 Ounce	ChemChill Premium Electrical Contact Cleaner dissolves dust, grease, dirt and other contaminants on contact by penetrating hard to reach areas of sensitive electronic components and contacts. It evaporates quickly and completely. Regular cleaning may prolong the life expectancy of components and help prevent contact failure

PREMIUM ELECTRICAL MOTOR CLEANER



Item ID	Size	DESCRIPTION
CCEMC-A20	20 Ounce	ChemChill Premium Electrical Motor Cleaner is a solvent based, VOC compliant electrical motor cleaner. ChemChill Premium Electrical Motor Cleaner uses a high pressure spray to blast away grease, grime, dirt and debris from electrical components. It's a fast-drying formula, leaving no residue.

PREMIUM HD DEGREASING SOLVENT



Item ID	Size	DESCRIPTION
CCDGS-A14	14 Ounce	ChemChill Premium HD Degreasing Solvent is a solvent based, VOC Compliant, non-ozone depleting coil cleaner. Chem uses a high pressure spray to blast away grease, grime, dirt and debris from refrigeration coils. Does not require rinsing after use. It leaves the coil clean with no residue and can also be used on condenser fans.
CCDGS-L1G	1 Gallon	

PREMIUM PENETRATING LUBRICANT



Item ID	Size	DESCRIPTION
CCPL-A10	15 Ounce	ChemChill Premium Penetrating Lubricant has many industrial, automotive, home and mechanical applications. Not only does ChemChill Premium Penetrating Lubricant stop squeaks, it also helps protect metal surfaces and loosens rusted parts. ChemChill Premium Penetrating Lubricant also removes tar and grease.

PREMIUM SILICONE LUBRICANT



Item ID	Size	DESCRIPTION
CCFGS-A11	11 Ounce	ChemChill Premium Silicon Lubricant is a high viscosity, heavy duty silicone which is specially formulated to provide superior all-purpose lubrication and protection without the use of ozone depleting chlorinated solvents. Perfect for metal to non-metal contact. Prevents squeaks, freezing and sticking to rubber. A good electrical insulator that helps prevent electrical losses. Lubricates and waterproofs all types of mechanical equipment. Stops friction and squeaks. High silicone formula does not attract dust or dirt.. Protects and renews rubber mountings, bushing and weather stripping. Prevents binding, sticking and deterioration. Non-gumming, colorless and non-staining.

PREMIUM SPRAY ADHESIVE



Item ID	Size	DESCRIPTION
CCAS-A12	12 Ounce	ChemChill Premium Spray Adhesive is a high performance multi-purpose adhesive. For use in temporary or permanent bonding. Waterproof, flexible, transparent and non-staining. Great for adhesive/bonding jobs around the house, auto, boat, office, factory or out in the field. It does not contain chlorinated solvents or ozone depleting solvents. Cleans up easily with mineral spirits. Not intended for use on vinyl. Can be used to bond rubber foam, urethane foam, styfoam, mat insulation and like polymers or plastics.



PLATINUM Z REFRIGERATION LUBRICANTS

MINERAL OILS

Z3GS MINERAL OIL REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 150 SUS
- OEM Approved



Item ID	Size
CCPZM3G-L1G	1 Gallon
CCPZM3G-L5G	5 Gallon
CCPZM3G-L55G	55 Gallon

Z4GS MINERAL OIL REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 300 SUS
- OEM Approved



Item ID	Size
CCPZM4G-L1G	1 Gallon
CCPZM4G-L5G	5 Gallon
CCPZM4G-L55G	55 Gallon

Z5GS MINERAL OIL REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 500 SUS
- OEM Approved



Item ID	Size
CCPZM5G-L1G	1 Gallon
CCPZM5G-L5G	5 Gallon
CCPZM5G-L55G	55 Gallon

ALKYLBENZENE OILS

Z150 ALKYL BENZENE REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 150 SUS
- OEM Approved



Item ID	Size
CCPZAB150-L1G	1 Gallon
CCPZAB150-L5G	5 Gallon
CCPZAB150-L55G	55 Gallon

Z200+ ALKYL BENZENE REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 200 SUS
- OEM Approved



Item ID	Size
CCPZAB200TD-L1G	1 Gallon
CCPZAB200TD-L5G	5 Gallon
CCPZAB200TD-L55G	55 Gallon

Z300 ALKYL BENZENE REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 300 SUS
- OEM Approved



Item ID	Size
CCPZAB300-L1G	1 Gallon
CCPZAB300-L5G	5 Gallon
CCPZAB300-L55G	55 Gallon



PLATINUM Z REFRIGERATION LUBRICANTS

POLYOL ESTER OILS

Z32E SYNTHETIC POLYOL ESTER REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 150 SUS
- OEM Approved



Item ID	Size
CCPZPOE32-L1G	1 Gallon
CCPZPOE32-L1Q	1 Quart

Z32MAF SYNTHETIC POLYOL ESTER REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 150 SUS
- OEM Approved



Item ID	Size
CCPZPOE32MAF-L1G	1 Gallon
CCPZPOE32MAF-L1Q	1 Quart

Z68E SYNTHETIC POLYOL ESTER REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 300 SUS
- OEM Approved



Item ID	Size
CCPZPOE68-L1G	1 Gallon
CCPZPOE68-L1Q	1 Quart

Z100E SYNTHETIC POLYOL ESTER REFRIGERATION LUBRICANT

FEATURES:

- Viscosity 300 SUS
- OEM Approved



Item ID	Size
CCPZPOE100-L1G	1 Gallon
CCPZPOE100-L1Q	1 Quart

ChemChill | VACUUM PUMP OIL

ULTRA CLEAR VACUUM PUMP OIL



Item ID	Size
CCPZVPO-L1P	1 Pint
CCPZVPO-L1Q	1 Quart
CCPZVPO-L1G	1 Gallon
CCPZVPO-L5G	5 Gallon



DESCRIPTION

ChemChill Platinum Z Ultra Clear Vacuum Pump Oil is an OEM approved formulation that promotes deep vacuum in A/C and refrigeration systems.

C-FRAME MOTORS

APPLICATIONS

- Evaporators
- Refrigerators
- Range hoods
- Ventilators
- Exhaust fans
- Unit heaters

FEATURES

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



Item ID	Stack Size (in.)	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (in.)	Hertz	Replaces	Notes
65112	1/2	120	3000	0.76	1	CCW	7/32 x 1 3/4	60		104 105 485

Notes: 104. Same as 65100 except mounting screws are on the shaft end 105. Includes A65100FB impeller 485. Includes two prong plug

Motors | BELT DRIVE MOTORS

48/56 FRAME, SPLIT PHASE BELT DRIVER FAN AND BLOWER MOTORS



APPLICATIONS

- Centrifugal pumps, belt drive furnace blowers, fans

FEATURES

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

Item ID	H.P.	Volts	RPM	Amps	Rotation	Service Factor	Shaft Dimension (in.)	Length Less Shaft (in.)	Frame	Bearings	Replaces
Packard											
45014	1/4	115	1725	4.80	Reversible	1.35	1/2 X 1 7/8	6 3/4	48/56	Sleeve	Emerson 8000 GE 4701 Marathon B206
45013	1/3	115	1725	6.60	Reversible	1.35	1/2 X 1 7/8	6 3/4	48/56	Sleeve	Emerson 8100 GE 4706 Marathon B207
45012	1/2	115	1725	8.30	Reversible	1.25	1/2 X 1 7/8	7 3/4	48/56	Sleeve	Emerson 8200 GE 4708 Marathon B208

UNIT BEARING MOTORS



FEATURES:

- Rotation is determined by viewing the lead end
- Totally enclosed



CAST IRON 2-16 WATTS - SINGLE FOOT PAD

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Enclosure	Hertz	Mounting	Replaces
61021	2	115	1550	0.22	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	No Foot Pad	
65111	2.5	115	1000	0.26	CW	1/4 x 1/2	2 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5111
65211	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5211
65212	4	115	1550	0.29	CCW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Single Foot Pad	GE 5212
65311	6	115	1550	0.40	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5311
65312	6	115	1550	0.40	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5312
65411	9	115	1550	0.55	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5411
65412	9	115	1550	0.55	CCW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5412
65421	9	230	1550	0.27	CW	1/4 x 1/2	2 7/8	Totally Enclosed	50/60	Single Foot Pad	GE 5421
65422	9	230	1550	0.27	CCW	1/4 x 1/2	2 3/4	Totally Enclosed	50/60	Single Foot Pad	GE 5422
65811	16	115	1550	1.00	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5811
65812	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5812
65821	16	230	1550	0.50	CW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5821
65822	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/4	Totally Enclosed	50/60	Single Foot Pad	GE 5822

CAST IRON 2-16 WATTS - DOUBLE FOOT PADS

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Enclosure	Hertz	Mounting
61002	2	115	1550	0.22	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads
61004	4	115	1550	0.29	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads
61006	6	115	1550	0.40	CW	1/4 x 1/2	2 3/8	Totally Enclosed	50/60	Double Foot Pads
61029	9	230	1550	0.27	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads
61009	9	115	1550	0.55	CW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads
61099	9	115	1550	0.55	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads
61059	9	230	1550	0.29	CCW	1/4 x 1/2	2 1/2	Totally Enclosed	50/60	Double Foot Pads
61015	16	115	1550	1.00	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads
61016	16	115	1550	1.00	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads
61017	16	230	1550	0.50	CW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads
61018	16	230	1550	0.50	CCW	1/4 x 1/2	3 1/32	Totally Enclosed	50/60	Double Foot Pads

DIRECT REPLACEMENT

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Enclosure	Hertz	Mounting	Replaces	Notes
65119	5	115	1550	0.34	CW	1/4 x 1/2	2 3/8	Cast Iron	50/60	Double Foot Pads	Hill PP7577M	87 551
65018	5	115	1550	0.34	CW	1/4 x 1/2	2 1/2	Cast Iron	50/60	Single Foot Pad	GE 5KSM81FFL18	550 551
65017	9	115	1550	0.55	CW	1/4 x 1/2	2 3/4	Cast Iron	50/60	Single Foot Pad	GE 5KSM81FFL17	550 551
65133	9	115	1550	0.50	CW	1/4 x 1/2	2 1/2	Cast Iron	50/60	Single Foot Pad	GE 5KSM51ECG5133 HUSSMANN 58698	87

Notes: 87. Inclues straight Lyall plug 530. No foot pad 550. Includes 90 degree Lyall plug 551. Low temp. oil

UNIT BEARING MOTORS

FEATURES:

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



CAST IRON 25-50 WATTS

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Enclosure	Replaces
Packard									
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3251 002412283
65003	25	115	1500	1.10	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3252
65002	25	230	1500	0.55	CW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3253
65004	25	230	1500	0.55	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3254
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3351 810M035A29
65022	35	115	1500	1.40	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3352
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3353 810M035A21
65023	35	230	1500	0.70	CCW	1/4 x 1/2	3 3/8	Totally Enclosed	GE 3354
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3501 050-0244-00
65042	50	115	1500	1.70	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3502
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3503 050-0244-00
65043	50	230	1500	0.85	CCW	3/8 x 1 1/2	3 5/8	Semi Enclosed	GE 3504
65045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	Open	GE 3507 810M050A62

UNIT BEARING MOTOR MOUNTING BRACKETS



Item ID	A68004
Brand	Packard

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

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (in.)	Length Less Shaft (in.)	Bearings	Capacitor Required	Replaces	Notes
Packard										
80825	1/8	208-230	825	1.00	1/2 X 6 1/2	3 7/8	Ball	5MFD/370V	Emerson 1872	126
43727B	1/6	208-230	1075	1.0-1.1	1/2 X 6 1/2	3 7/8	Ball	5MFD/370V	Emerson 1859	126
60825	1/6	208-230	825	1.0-1.1	1/2 x 6 1/2	4 1/8	Ball	5MFD/370V	Emerson 1873	126
40825	1/4	208-230	825	1.3-1.4	1/2 x 6 1/2	4 5/8	Ball	5MFD/370V	Emerson 1874	126
43732	1/4	208-230	1075	1.8-2.0	1/2 x 6 1/2	4 1/8	Ball	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	Ball	7.5MFD/370V	Emerson 1875	126
43733	1/3	208-230	1075	2.2-2.5	1/2 x 6 1/2	4 5/8	Ball	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	Ball	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	Ball	10MFD/370V	Emerson 1868 & 1879	126

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

5 5/8 INCH DIAMETER MULTI-HORSEPOWER
CONDENSER FAN MOTORS



FEATURES

Replaces Rheem and Hundreds of Other Condenser Motors!

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

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (in.)	Length Less Shaft (in.)	Bearings	Replaces
Packard								
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	Ball	Emerson 1872 Rheem 51-20760-11 Rheem 51-23054-13 Rheem 51-21276-01 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	Ball	Emerson 5458 Emerson 5462 Rheem 51-20354-11 Rheem 51-23053-11 Rheem 51-20668-11 Rheem 51-23055-11



VULCAN HIGH TEMPERATURE
OUTDOOR CONDENSER FAN MOTORS



70°C (158°F) MAX AMBIENT

FEATURES

- Class F Insulation
- 70°C Ambient
- Ball Bearing
- Single Speed
- Drilled and tapped holes in the shell for Rheem mounting
- Reversible
- All Angle Mounting
- Extended Thru Bolts
- 36" Leads
- Energy Efficient PSC Design

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (in.)	Length Less Shaft (in.)	Bearings	Capacitor Required	Replaces
Packard									
43732F	1/4	208-230	1075	1.8-2.0	1/2 X 6 1/2	4 1/8	Ball	5MFD/370V	20728, Rheem 51-23054-11, US MOTORS 1860H
43733F	1/3	208-230	1075	2.2-2.5	1/2 X 6 1/2	4 5/8	Ball	7.5MFD/370V	20729, Rheem 51-21583-21, US Motors 1861H
43734F	1/2	208-230	1075	3.0-3.5	1/2 X 6 1/2	5 1/8	Ball	10MFD/370V	20730, US Motors 1862H



VULCAN HIGH TEMPERATURE
MULTI-HORSEPOWER CONDENSER FAN MOTORS



70°C (158°F) MAX AMBIENT

FEATURES

Replaces Rheem and Hundreds of Other Condenser Motors!

- Permanent split capacitor
- UL and CSA approved
- Mounts by belly band, thru bolts or Rheem mounting holes with screws
- Single speed
- Totally enclosed
- Single phase
- 48 Frame
- 60 Hertz
- Ball bearings
- Electrically reversible
- All angle mounting
- Automatic overload
- 70°C Ambient

Item ID	H.P.	Volts	RPM	Amps	Shaft Dimension (in.)	Length Less Shaft (in.)	Frame	Bearings	Rotation
Packard									
45458BF	1/3-1/4-1/5-1/6	208-230	1075	1.8-2.0	1/2 X 6 1/2	4 1/8	48	Ball	Reversible

5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS



FEATURES

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

Item ID	H.P.	Volts	RPM	Amps	Speeds	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	Capacitor Required	Replaces
Packard											
43581	1/6-1/8-1/10	115	1075	2.50	3	1/2 x 5 1/2	4	PSC	Sleeve	5MFD/370V	GE 3581 Emerson 8891
43582	1/6-1/8-1/10	208-230	1075	1.40	3	1/2 x 7	4	PSC	Sleeve	5MFD/370V	GE 3582 Emerson 8896
43583	1/4-1/6-1/8	115	1075	4.40	3	1/2 x 4 1/2	4	PSC	Sleeve	5MFD/370V	GE 3583 Emerson 1863
43584	1/4-1/6-1/8	208-230	1075	1.70	3	1/2 x 4 1/2	4	PSC	Sleeve	5MFD/370V	GE 3584 Emerson 1971
43585	1/3-1/4-1/6	115	1075	6.00	3	1/2 x 4 1/2	4 1/4	PSC	Sleeve	5MFD/370V	GE 3585 Emerson 1864
43586	1/3-1/4-1/6	208-230	1075	2.60	3	1/2 x 4 1/2	4 1/4	PSC	Sleeve	5MFD/370V	GE 3586 Emerson 1972
43587	1/2-1/3-1/4	115	1075	7.80	3	1/2 x 4 1/2	5 1/8	PSC	Sleeve	5MFD/370V	GE 3587 Emerson 1865
43588	1/2-1/3-1/4	208-230	1075	3.60	3	1/2 X 4 1/2	5 1/8	PSC	Sleeve	5MFD/370V	GE 3588 Emerson 1973
43589	3/4-1/2-1/3	115	1075	10.50	3	1/2 X 4 1/2	5 1/8	PSC	Sleeve	15MFD/370V	GE 3589 Emerson 8904
43590	3/4-1/2-1/3	208-230	1075	4.60	3	1/2 X 4 1/2	5 1/8	PSC	Sleeve	10MFD/370V	GE 3590 Emerson 8905
48906	1	115	1075	9.70	3	1/2 X 6 1/2	5.87	PSC	Ball	20MFD/370V	GE 3595 Emerson 8906
48907	1	208/230	1075	4.4 - 5.4	3	1/2 X 6 1/2	5.87	PSC	Ball	20MFD/370V	GE 3596 Emerson 8907

5 5/8 INCH DIAMETER MULTI-HORSEPOWER DIRECT DRIVE BLOWER MOTORS



FEATURES

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

Item ID	H.P.	Volts	RPM	Amps	Rotation	Type	Bearings	Enclosure	Replaces
Packard									
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	Open	Emerson 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	Open	Emerson 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	Ball	Open	Emerson 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	Ball	Open	Emerson 5471 Rheem 51-21898-01

OEM REPLACEMENT BLOWERS

CARRIER



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

CARRIER



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

DON'T FORGET!

BW11046
Blower Wheel



CARRIER



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

DON'T FORGET!

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



CARRIER



Item ID	65569
Replaces	HC21ZE117B HC660-005
H.P.	25 MHP
Volts	115
RPM	3300
Amps	1.80
Speeds	1
Shaft Dimensions (in.)	1 X 5/16 X 1 7/8
Length Less Shaft (in.)	3 3/8
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

DON'T FORGET!

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



COLEMAN EVCON



Item ID	65475
Replaces	373-19801-820 373-19801-821
H.P.	1/150
Volts	115
RPM	3315
Amps	0.4
Speeds	1
Rotation	CCWSE
Type	Shaded Pole
Bearings	Ball
Hertz	60
Overload	Automatic

GOODMAN



Item ID	48331
Replaces	5KSB46GF0001S B4833000
Volts	115
RPM	3200
Amps	1.80
Speeds	1
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Rubber Boot

GOODMAN



Item ID	48332
Replaces	5KSB46GF0003S B48330001
Volts	115
RPM	3200/2800
Amps	1.80/1.10
Speeds	2
Type	Shaded Pole
Bearings	Ball
Enclosure	Open
Hertz	60
Overload	Automatic
Includes	Rubber Boot

GOODMAN



Item ID	66003
Replaces	11009001 11009003
Volts	115
RPM	3250
Amps	0.92
Speeds	1
Type	Shaded Pole
Bearings	Sleeve
Enclosure	Open
Hertz	60
Overload	Automatic

OEM REPLACEMENT BLOWERS

GOODMAN



Item ID	66590	
Replaces	B4059000 7002-3036	J238-112-11195 J238-11195
H.P.	1/30	
Volts	115	
RPM	3000	
Amps	1.50	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

GOODMAN



Item ID	66005	
Replaces	B1859005	J238-11128
H.P.	1/30	
Volts	115	
RPM	3000	
Amps	1.60	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

GOODMAN



Item ID	66002	
Replaces	0131M00002P 119276-00	0131M00002S
H.P.	1/35	
Volts	115	
RPM	3000	
Amps	1.90	
Speeds	1	
Type	Shaded Pole	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	
Includes	Gasket	

ICP



Item ID	66833		
Replaces	1010324	1010238P	1013833
H.P.	28 MHP		
Volts	115		
RPM	3000		
Amps	1.60		
Speeds	1		
Type	Shaded Pole		
Bearings	Ball		
Enclosure	Open		
Hertz	60		
Overload	Automatic		

ICP



Item ID	66254		
Replaces	1110008 7021-10048	1085571 7021-10580	1085571P
H.P.	1/50		
Volts	230		
RPM	3000		
Amps	0.30		
Speeds	1		
Type	PSC		
Bearings	Ball		
Enclosure	Open		
Hertz	60		
Overload	Automatic		

ICP



Item ID	66350		
Replaces	1000814 1002543 1150474	1001371 1007360 HQ1011350	1001609 1011350
H.P.	1/25		
Volts	115		
RPM	3350		
Amps	0.92		
Speeds	1		
Type	PSC		
Bearings	Ball		
Enclosure	Open		
Hertz	60		
Overload	Automatic		
Includes	5MFD Capacitor		

LENNOX



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

LENNOX



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

RHEEM



Item ID	66781	
Replaces	70-101087-81	7021-11559
H.P.	1/50	
Volts	115	
RPM	3000	
Amps	0.60	
Speeds	1	
Type	PSC	
Bearings	Ball	
Enclosure	Open	
Hertz	60	
Overload	Automatic	

RHEEM



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

TRANE



Item ID	66787		
Replaces	D330787P01 BLW473 X38040305017	D330809P01 X38040305010	
H.P.	1/30		
Volts	120		
RPM	3000		
Amps	1.20		
Speeds	1		
Type	Shaded Pole		
Bearings	Ball		
Enclosure	Open		
Hertz	60		
Overload	Automatic		
Includes	Special Plug		

OEM REPLACEMENT BLOWERS

OEM DIRECT REPLACEMENTS



HILL

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

HUSSMANN

Item ID	Watts	H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	Dia. (in.)	ENCL.	Mounting	Replaces	Notes
65133	9	—	115	1550	0.50	CW	1/4 x 1/2	2 1/2	SP	Unit	—	TE	Single Foot Pad	58698	87

ICE-O-MATIC

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	ENCL.	Mounting	Hertz	Replaces
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-01
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03 309316-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi Encl.	Double Foot Pads	50/60	319357-000

ICP

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Enclosure	Replaces
66833	28 MHP	115	3000	1.60	1	CW	SP	Ball	Open	1010324 1013833 1010238P
66254	1/50	230	3000	0.30	1	CCWLE	PSC	Ball	Open	1110008 1085571P 7021-10580 1085571 7021-10048
66350	1/25	115	3350	0.92	1	CCWSE	PSC	Ball	Open	1000814 1001609 1007360 1150474 1001371 1002543 1011350 HQ1011350

Notes:
87. Includes straight Lyall plug

OEM DIRECT REPLACEMENTS



IMI CORNELIUS

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	ENCL.	Mounting	Hertz	Replaces
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	9161078-03 309316-000
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	319357-000

LENNOX

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	ENCL.	Hertz	Overload	Replaces
66401	1/60	120	2800	1.30	1	CWLE	SP	Ball	Open	60	Auto	88K8401 J238-087-8171
66501	1/30	115	3000	1.20	1	CCWSE	SP	Ball	Open	60	Auto	31L5501 101202-01 102359-01

MANITOWOC

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	ENCL.	Mounting	Hertz	Replaces
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002412283
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	002401591 002412373
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	002412353

NUTONE

Item ID	Stack Size (in.)	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	Enclosure	Replaces	Notes
65112	1/2	—	120	3000	0.76	1	CW	7/32 X 1 3/4	C-Frame	SP	Sleeve	Open		104 105

Notes:
104. Same as 65100 except mounting screws are on the shaft end

105. Includes A65100FB impeller

OEM DIRECT REPLACEMENTS



Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (in.)	Type	Bearings	Enclosure	Replaces
66781	1/50	115	3000	0.60	1	CW	—	PSC	Ball	Open	70-101087-81 70-21496-83 70-24157-03 7021-11559
66847	1/30	120	3000	1.70	1	CCWLE	—	SP	Ball	Open	117104-01 117847-07 70-22838-82 70-24157-03

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	Dia. (in.)	Replaces
60825	1/6	208-230	825	1.20	1	Rev.	1/2 x 6 1/2	4 1/4	PSC	Ball	5 5/8	51-20760-11 51-20763-01 51-20763-02

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rot.	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	ENCL.	Dia. (in.)	Replaces
66505	1/10	115/208/230	3000	1.40/0.80	1	Rev.	5/16 x 3 1/4	4 1/4	PSC	Ball	Open	3.3	CCW505-43424 CCW175-40070 7162-0293 7162-0348 7162-0294 CCW77162-0311 CCW175-43846 CW7162-0224 CW36860

Item ID	Watts	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	ENCL.	Mounting	Hertz	Replaces
65001	25	115	1500	1.10	CW	1/4 x 1/2	3 3/8	TE	Double Foot Pads	50/60	18-7200-01
65040	50	115	1500	1.70	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-11
65041	50	230	1500	0.85	CW	3/8 x 1 1/2	3 5/8	Semi	Double Foot Pads	50/60	18-5105-02

OEM DIRECT REPLACEMENTS



Item ID	Watts/H.P.	Volts	RPM	Amps	Rotation	Shaft Dimension (in.)	Length Less Shaft (in.)	Type	Bearings	Dia. (in.)	ENCL.	Hertz	Replaces
65020	35	115	1500	1.40	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	50/60	810M035A29
65021	35	230	1500	0.70	CW	1/4 x 1/2	3 3/8	SP	Unit	—	TE	50/60	810M035A21 810M035A28
65045	50	230	1500	0.85	CCW	5/16 x 2 1/2	3 3/4	SP	Unit	—	Open	50/60	810M050A62

Item ID	H.P.	Volts	RPM	Amps	Speeds	Rotation	Type	Bearings	Replaces	Notes
66787	—	120	3000	1.20	1	CCWLE	SP	Ball	BLW473 21C138126 210330673 21D330673	210340125 787P0 111

Notes:
111. Includes special plug

Electrical Components | CAPACITORS

TITAN FLEX® MULTI-RATED CAPACITORS



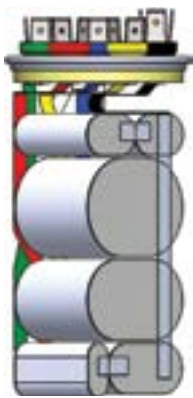
FLEXIBILITY FOR THE WAY YOU WORK

Item ID	Capacitance Range
TITANFLEX	2.5 - 7.5

- Equipped with quick connect lug terminals
- 25 mfd Blue
 - 20 mfd Yellow
 - 10 mfd Red
 - 5 mfd White
 - 2.5 mfd Green

FEATURES

- All-in-one solution that creates an efficient work environment
- Proprietary individual coil design provides integrity for each rating
- Tolerance: +/-5% @ 60Hz
- Rated Voltage: 440/370 VAC
- Rated Temperature 70°C Max
- Five Year Warranty



TITAN HD®
OVAL MOTOR RUN CAPACITORS



LONGEVITY YOU CAN COUNT ON; CRAFTSMANSHIP TO BE PROUD OF.

FEATURES

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

SINGLE SECTION - OVAL

Item ID	MFD	Can Size
Titan HD 370 Volt		
POC2A	2	2
POC3A	3	1
POC4A	4	1
POC5A	5	1
POC6A	6	1
POC7.5A	7.5	1
POC10A	10	2
POC12.5A	12.5	2
POC15A	15	3
POC17.5A	17.5	3
POC20A	20	3
POC25A	25	3
POC30A	30	3
POC35A	35	3
POC40A	40	3
POC45A	45	3
POC50A	50	13
POC55A	55	13
POC60A	60	13
POC70A	70	13
POC80A	80	13

- Notes:
- Height dimension does not include terminals. Add 1/2" for terminals.
 - Please call when dimensions are critical. 800.334.1769

CAN DIMENSION

Can Size	Depth (in.)	Width (in.)	Height (in.)
Can Dimension			
1	1.25	2.00	1.56
2	1.25	2.00	2.19
3	1.25	2.00	2.88
4	1.25	2.00	3.88
5	1.75	2.75	2.38
6	1.75	2.75	2.75
7	1.75	2.75	3.13
8	1.75	2.75	3.25
9	1.75	2.75	3.75
10	1.75	2.75	4.25
11	1.75	2.75	4.75
12	1.85	2.75	2.38
13	1.85	2.75	2.91
14	1.85	2.75	3.91
15	1.85	2.75	4.75
16	1.85	3.54	4.75

SINGLE SECTION - OVAL

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
POCF2A	2	1
POCF2.5A	2.5	1
POCF3A	3	1
POCF4A	4	1
POCF5A	5	1
POCF6A	6	1
POCF7.5A	7.5	2
POCF10A	10	3
POCF12.5A	12.5	3
POCF15A	15	3
POCF17.5A	17.5	3
POCF20A	20	3
POCF25B	25	3
POCF30A	30	4
POCF35A	35	4
POCF40A	40	13
POCF45A	45	13
POCF50A	50	13
POCF55A	55	13
POCF60A	60	14
POCF70A	70	14
POCF80A	80	14



TITAN HD®
OVAL MOTOR RUN CAPACITORS

DUAL SECTION - OVAL

Item ID	MFD	Can Size
Titan HD 370 Volt		
POCD153A	15+3	12
POCD154A	15+4	12
POCD155A	15+5	12
POCD1510A	15+10	5
POCD1755A	17.5+5	12
POCD203A	20+3	5
POCD204A	20+4	12
POCD205A	20+5	12
POCD2010A	20+10	12
POCD2015A	20+15	7
POCD253A	25+3	12
POCD254A	25+4	6
POCD255A	25+5	12
POCD2575A	25+7.5	12
POCD258A	25+8	8
POCD2510A	25+10	12
POCD2515A	25+15	8
POCD303A	30+3	13
POCD305A	30+5	13
POCD3075A	30+7.5	8
POCD3010A	30+10	13
POCD353A	35+3	8
POCD354A	35+4	13
POCD355A	35+5	13
POCD3575A	35+7.5	13
POCD3510A	35+10	13
POCD403A	40+3	9
POCD404A	40+4	9
POCD405A	40+5	13
POCD4075A	40+7.5	13
POCD4010A	40+10	13
POCD455A	45+5	13
POCD4575A	45+7.5	13
POCD4510A	45+10	13
POCD4515A	45+15	10
POCD505A	50+5	13
POCD555A	55+5	14
POCD5575A	55+7.5	10
POCD605A	60+5	10
POCD6075A	60+7.5	14
POCD6010A	60+10	10

- Notes:
- Height dimension does not include terminals. Add 1/2" for terminals.
 - Please call when dimensions are critical. 800.334.1769

DUAL SECTION - OVAL

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
POCFD105A	10+5	5
POCFD154A	15+4	5
POCFD155A	15+5	12
POCFD1510A	15+10	6
POCFD205A	20+5	12
POCFD2015A	20+15	13
POCFD255A	25+5	13
POCFD2575A	25+7.5	13
POCFD2510A	25+10	13
POCFD2515A	25+15	9
POCFD304A	30+4	13
POCFD305A	30+5	13
POCFD3075A	30+7.5	13
POCFD3010A	30+10	13
POCFD353A	35+3	13
POCFD354A	35+4	10
POCFD355A	35+5	13
POCFD3575A	35+7.5	13
POCFD3510A	35+10	10
POCFD403A	40+3	11
POCFD405A	40+5	14
POCFD4075A	40+7.5	14
POCFD4010A	40+10	14
POCFD455A	45+5	14
POCFD4575A	45+7.5	14
POCFD505A	50+5	15
POCFD5075A	50+7.5	15
POCFD555A	55+5	15
POCFD5510A	55+10	15
POCFD605A	60+5	15
POCFD6510A	65+10	15
POCFD805A	80+5	16
POCFD8075A	80+7.5	16

TITAN HD®
ROUND MOTOR RUN CAPACITORS



SCAN TO LEARN MORE

LONGEVITY YOU CAN COUNT ON; CRAFTSMANSHIP TO BE PROUD OF.

FEATURES

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

SINGLE SECTION - ROUND

Item ID	MFD	Can Size
Titan HD 370 Volt		
PRC5A	5	1
PRC7.5A	7.5	1
PRC10A	10	1
PRC12.5A	12.5	1
PRC15A	15	1
PRC17.5A	17.5	2
PRC20A	20	1
PRC25A	25	1
PRC30A	30	1
PRC31.5A	31.5	5
PRC35A	35	3
PRC40A	40	3
PRC45A	45	3
PRC50A	50	4
PRC55A	55	4
PRC60A	60	4
PRC70A	70	11
PRC80A	80	8
PRC100A	100	12

- Notes:
- Height dimension does not include terminals. Add 1/2" for terminals.
 - Please call when dimensions are critical. 800.334.1769

CAN DIMENSION

Can Size	Diameter (in.)	Height (in.)
Can Dimension		
1	1.75	2.38
2	1.75	2.75
3	1.75	2.84
4	1.75	3.84
5	2	2.75
6	2	2.91
7	2	3.75
8	2	3.84
9	2	4.25
10	2	4.75
11	2	5.25
12	2.5	2.91
13	2.5	3.25
14	2.5	3.75
15	2.5	3.91
16	2.5	4.25
17	2.5	4.75

SINGLE SECTION - ROUND

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
PRCF5A	5	1
PRCF7.5A	7.5	1
PRCF10A	10	1
PRCF12.5A	12.5	1
PRCF15A	15	1
PRCF17.5A	17.5	1
PRCF20A	20	1
PRCF25A	25	3
PRCF30A	30	3
PRCF35A	35	4
PRCF40A	40	4
PRCF45A	45	4
PRCF50A	50	8
PRCF55A	55	8
PRCF60A	60	8
PRCF65A	65	10
PRCF70A	70	10
PRCF80A	80	10
PRCF90A	90	15



TITAN HD®
ROUND MOTOR RUN CAPACITORS

DUAL SECTION - ROUND

Item ID	MFD	Can Size
Titan HD 370 Volt		
PRCD253A	25+3	6
PRCD254A	25+4	6
PRCD255A	25+5	6
PRCD303A	30+3	6
PRCD304A	30+4	6
PRCD305A	30+5	6
PRCD3075A	30+7.5	6
PRCD3010A	30+10	6
PRCD353A	35+3	6
PRCD354A	35+4	6
PRCD355A	35+5	6
PRCD3575A	35+7.5	6
PRCD3510A	35+10	6
PRCD403A	40+3	6
PRCD404A	40+4	7
PRCD405A	40+5	6
PRCD4075A	40+7.5	6
PRCD4010A	40+10	7
PRCD453A	45+3	6
PRCD455A	45+5	6
PRCD4575A	45+7.5	6
PRCD4510A	45+10	9
PRCD503A	50+3	6
PRCD505A	50+5	6
PRCD5075A	50+7.5	6
PRCD5010A	50+10	6
PRCD555A	55+5	8
PRCD5575A	55+7.5	8
PRCD5510A	55+10	8
PRCD605A	60+5	8
PRCD6075A	60+7.5	8
PRCD6010A	60+10	8
PRCD805A	80+5	12
PRCD8075A	80+7.5	12
PRCD8010A	80+10	14
PRCD80125A	80+12.5	16

- Notes:
- Height dimension does not include terminals. Add 1/2" for terminals.
 - Please call when dimensions are critical. 800.334.1769

DUAL SECTION - ROUND

Item ID	MFD	Can Size
Titan HD 440/370 Volt		
PRCFD105A	10+5	5
PRCFD205A	20+5	6
PRCFD2015A	20+15	6
PRCFD253A	25+3	6
PRCFD255A	25+5	6
PRCFD2575A	25+7.5	6
PRCFD2510A	25+10	7
PRCFD2515A	25+15	6
PRCFD303A	30+3	6
PRCFD304A	30+4	6
PRCFD305A	30+5	6
PRCFD3075A	30+7.5	6
PRCFD353A	35+3	8
PRCFD354A	35+4	8
PRCFD355A	35+5	8
PRCFD356A	35+6	8
PRCFD3575A	35+7.5	8
PRCFD3510A	35+10	8
PRCFD403A	40+3	8
PRCFD404A	40+4	13
PRCFD405A	40+5	8
PRCFD406A	40+6	8
PRCFD4075A	40+7.5	8
PRCFD4010A	40+10	8
PRCFD453A	45+3	8
PRCFD455A	45+5	8
PRCFD456A	45+6	14
PRCFD4575A	45+7.5	8
PRCFD4510A	45+10	8
PRCFD505A	50+5	8
PRCFD5075A	50+7.5	8
PRCFD555A	55+5	12
PRCFD5575A	55+7.5	12
PRCFD5510A	55+10	12
PRCFD605A	60+5	12
PRCFD6075A	60+7.5	12
PRCFD6010A	60+10	12
PRCFD60125A	60+12.5	17
PRCFD705A	70+5	15
PRCFD7075A	70+7.5	15
PRCFD7010A	70+10	15
PRCFD805A	80+5	15
PRCFD8075A	80+7.5	15
PRCFD8010A	80+10	15

PACKARD START CAPACITORS



Helpful Tip



A bleed resistor should always be used on compressor applications to avoid relay failure or loss of compressor winding due to a voltage spike. **See Page 74.**

FEATURES

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

Item ID	MFD	Can Size	Industry No.
Packard 110-125 VAC			
PMJ21	21-25	1	11002
PMJ25	25-30	1	11003
PMJ30	30-36	1	11004
PMJ36	36-43	1	11005
PMJ43	43-53	1	11006
PMJ47	47-56	1	
PMJ56	56-75	1	11007
PMJ64	64-77	1	
PMJ72	72-88	1	11008
PMJ88	88-108	1	11009
PMJ108	108-130	1	11010
PMJ124	124-149	1	11112
PMJ130	130-156	1	11112
PMJ145	145-174	1	11013
PMJ161	161-193	1	11014
PMJ189	189-227	1	11015
PMJ200	200-240	1	11016
PMJ216	216-259	1	11017
PMJ216A	216-259	2	11017
PMJ233	233-280	1	10018
PMJ233A	233-280	2	10018
PMJ243	243-292	1	
PMJ243A	243-292	2	

- Notes:
- Please call when dimensions are critical. 800.334.1769
 - * With resistor.

CAN DIMENSION

Can Size	Diameter (in.)	Height (in.)
Can Dimension		
1	1 7/16	2 3/4
2	1 7/16	3 3/8
3	1 7/16	4 3/8
4	1 13/16	3 3/8
5	1 13/16	4 3/8
6	2 1/16	3 3/8
7	2 1/16	4 3/8
8	2 9/16	4 3/8

Item ID	MFD	Can Size	Industry No.
PMJ270	270-324	1	11019
PMJ270A	270-324	2	11019
PMJ295	295-354	1	
PMJ300	300-360	3	11020
PMJ324	324-388	1	11021
PMJ324A	324-388	4	11021
PMJ324B	324-388	2	11021
PMJ340	340-408	2	11022
PMJ340A	340-408	4	11022
PMJ378	378-455	2	11023
PMJ378A	378-455	4	11023
PMJ400	400-480	2	11024
PMJ400A	400-480	4	11024
PMJ430	430-516	2	
PMJ430A	430-516	4	
PMJ430B	430-516	6	
PMJ460	460-552	2	11025
PMJ460A	460-552	4	11025
PMJ460B	460-552	5	11025
PMJ540	540-648	5	11026
PMJ540A	540-648	4	11026
PMJ590	590-708	5	11027
PMJ590A	590-708	4	11027
PMJ645	645-774	5	
PMJ708	708-850	5	11028
PMJ708A	708-850	7	11028
PMJ708B	708-850	4	11028
PMJ800	800-960	4	
PMJ815	815-978	5	
PMJ829	829-995	5	11029
PMJ829A	829-995	7	11029
PMJ850	850-1020	7	
PMJ860	860-1032	4	
PMJ1000	1000-1200	7	11030
PMJ1290	1290-1548	7	

Item ID	MFD	Can Size	Industry No.
Packard 165 VAC			
PSMJ72	72-88	1	
PSMJ88	88-108	1	
PSMJ108	108-130	1	
PSMJ124	124-149	1	11031
PSMJ130	130-156	2	
PSMJ145	145-174	2	11032
PSMJ161	161-193	2	11033
PSMJ189	189-227	2	11034
PSMJ216	216-259	4	
PSMJ233	233-280	4	11035
PSMJ243	243-292	4	
PSMJ270	270-324	4	11036
PSMJ340	340-408	4	
PSMJ378A	378-455	5	
PSMJ400	400-480	4	11037
PSMJ540	540-648	4	
PSMJ710	710-850	6	
PSMJ710A	710-850	7	
PSMJ810A	810-972	7	
Packard 220-250 VAC			
PTMJ21	21-25	1	11038
PTMJ25	25-30	1	11039
PTMJ30	30-36	1	11040
PTMJ36	36-43	1	11041
PTMJ43	43-53	1	11042
PTMJ43A	43-53	2	11042
PTMJ47	47-56	1	
PTMJ53	53-64	2	
PTMJ56	56-64	1	11043
PTMJ56A	56-72	1	11043
PTMJ59	59-71	6	
PTMJ64	64-77	1	
PTMJ64A	64-77	2	
PTMJ72	72-88	4	11044
PTMJ86	86-108	6	
PTMJ88	88-108	4	11045
PTMJ105	105-126	6	
PTMJ108	108-130	4	11046
PTMJ124	124-149	5	11148
PTMJ124A	124-149	4	11148
PTMJ130	130-158	4	
PTMJ130A	130-158	5	
PTMJ145	145-174	4	11049
PTMJ145A	145-174	6	11049
PTMJ161	161-193	6	11050
PTMJ161A	161-193	5	11050
PTMJ189	189-227	6	11051

- Notes:
- Please call when dimensions are critical. 800.334.1769
 - * With resistor.

Item ID	MFD	Can Size	Industry No.
PTMJ189A	189-227	7	11051
PTMJ216	216-259	6	11052
PTMJ216A	216-259	7	11052
PTMJ233	233-280	6	11053
PTMJ233A	233-280	7	10053
PTMJ243	243-292	6	
PTMJ270	270-324	6	11054
PTMJ270A	270-324	7	11054
PTMJ280	280-336	7	
PTMJ284	284-333	8	
PTMJ320	320-384	7	
PTMJ340	340-408	7	
PTMJ378	378-455	8	
PTMJ400	400-480	7	
PTMJ400A	400-480	8	
PTMJ430	430-516	8	
PTMJ630	630-750	8	

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

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 Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resister to safely discharge the capacitor



Item ID	Capacitor Size (µF)	HP Rating	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
TorQstart						
TQS1	189-227	1 1/2 thru. 3 1/2	Recip and Scroll	239-268	502	TO-5 SK3W3
TQS2	270-324	3 1/2 thru. 6	Recip and Scroll	280-315	502	KS1 SK3W6S

HARD START KITS AND ALL IN ONE HARD START PACKS



STANDARD RELAY AND 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 on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces
TorQstart				
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6
TQS8	115-277	1/2 to 10	600%	32708 SPP7S



ALL PURPOSE HARD START PACK FEATURES

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

Item ID	Compressor Sizes	Volts	Replaces
TorQstart			
TQS21	1/2 HP	115	600-210 RCO210
TQS41	1/4 and 1/3 HP	115	600-410 RCO410
TQS81	1/12 thru 1/5 HP	115	600-810 RCO810

TITAN MAX[®]

DEFINITE PURPOSE CONTACTOR

MAXIMUM DEPENDABILITY IN A "ONE FOR ONE" REPLACEMENT FOR THE FURNAS DP CONTACTOR AND MANY MORE.

FEATURES

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



SCAN TO LEARN MORE



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

PACKARD START CONTACTORS



FEATURES

Contactors meet UL508 specifications for devices up to 600 VAC.

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



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

Item ID	Poles	F/L Inductive Amps	Locked Rotor Amps 240.277/480/600	Resistive Amps	Coil Voltage	Coil Voltage
Packard 3 Pole						
C325A	3	25	150/125/100	35	24	AC3
C325B	3	25	150/125/100	35	120	AC3
C325C	3	25	150/125/100	35	208/240	AC3
C330A	3	30	180/150/120	40	24	AC3, P6S, P7S
C330B	3	30	180/150/120	40	120	AC3, P6S, P7S
C330C	3	30	180/150/120	40	208/240	AC3, P6S, P7S
C330E	3	30	180/150/120	40	277	AC3, P6S, P7S
C330F	3	30	180/150/120	40	480	AC3, P6S, P7S
C340A	3	40	240/200/160	50	24	AC3, P6S, P7S
C340B	3	40	240/200/160	50	120	AC3, P6S, P7S
C340C	3	40	240/200/160	50	208/240	AC3, P6S, P7S
C340E	3	40	240/200/160	50	277	AC3, P6S, P7S
C340F	3	40	240/200/160	50	480	AC3, P6S, P7S
C350A	3	50	300/250/200	65	24	P8S, P38K
C350B	3	50	300/250/200	65	120	P8S, P38K
C350C	3	50	300/250/200	65	208/240	P8S, P38K
C350F	3	50	300/250/200	65	480	P8S, P38K
C360A	3	60	360/300/240	75	24	P8S, P38K
C360B	3	60	360/300/240	75	120	P8S, P38K
C360C	3	60	360/300/240	75	208/240	P8S, P38K
C360F	3	60	360/300/240	75	480	P8S, P38K
C375A	3	75	450/375/300	90	24	P9S
C375B	3	75	450/375/300	90	120	P9S
C375C	3	75	450/375/300	90	208/240	P9S
C390A	3	90	540/450/360	120	24	P9S
C390B	3	90	540/450/360	120	120	P9S
C390C	3	90	540/450/360	120	208/240	P9S
Packard 4 Pole						
C430A	4	30	180/150/120	40	24	AC3, P6S, P7S
C430B	4	30	180/150/120	40	120	AC3, P6S, P7S
C430C	4	30	180/150/120	40	208/240	AC3, P6S, P7S
C430F	4	30	180/150/120	40	480	AC3, P6S, P7S
C440A	4	40	240/200/160	50	24	AC3, P6S, P7S
C440B	4	40	240/200/160	50	120	AC3, P6S, P7S
C440C	4	40	240/200/160	50	208/240	AC3, P6S, P7S
C440F	4	40	240/200/160	50	480	AC3, P6S, P7S

- Notes:
- * Spade terminals and cover only.
 - Auxiliary Switches sold separately. See page 54

MAGNETIC CONTACTOR

Item ID	Type	Resistive Amps	Full Load Amps	Locked Rotor Amps	Coil Voltage	Hertz	Maximum Surrounding Air Temp.	Phase	Replaces
C18001	DPST N.O.	30	30	120	24	50/60	40°C	Single	3ARR8E4 MC11 18001 90-230



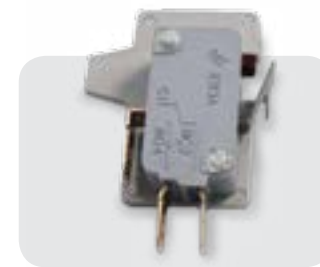
AUXILIARY SWITCHES FOR PACKARD CONTACTORS



P6S



P7S



P8S P9S



MI1

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



AC3



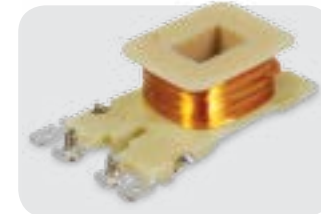
AC4

REPLACEMENT COILS FOR PACKARD CONTACTORS

3 POLE CONTACTOR REPLACEMENT COILS



Coil Voltage: 20-40



Coil Voltage: 50-60



Coil Voltage: 75-90

4 POLE CONTACTOR REPLACEMENT COILS



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

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

CLASS II FOOT MOUNT TRANSFORMERS



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

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

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

CLASS II MULTI-MOUNT TRANSFORMERS



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

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

Notes:
117. Equipped with a circuit breaker
118. Built-In fuse included

FAN CONTROL CENTERS



- FEATURES**
- Automatic overload
 - 48 Frame
 - Permanent split capacitor
 - Multiple capacitor/speed combin
 - Continuous duty, air over
 - Mounting rings, thru bolts and hole
 - Reversible rotation

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

POTENTIAL RELAYS



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

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

DIRECT REPLACEMENT RELAYS FOR ICP AND NORDYNE

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

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



PR1922



PR1931

TIME DELAY RELAYS



PTD102
Delay on Make



PTD203
Delay on Break

- APPLICATIONS
- Prevents short cycling of air conditioning, refrigeration and heat pump compressors
- FEATURES
- Universal voltage
 - Mounts in any position
 - UL and CSA recognized
 - Adjustable up to 10 minutes
 - Easy two-wire installation
 - Delay on make / delay on break

Item ID	Connection	Time Delay	Input Line Frequency	Input Line Voltage	Output Ratings Max.	Output Ratings Max.	Output Ratings Min.	Replaces
Packard								
PTD102	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/ VDC	15	12.7	5	Carrier P284-2391 Gemline IC213 Gemline IC310 ICM 102B
PTD203	2 - 1/4" male terminals	.03 - 10 mins.	50/60	18-240VAC/ VDC	15	29	5	A-1 Components F7035 Carrier P284-2392 ICM 102FB ICP 1160706 Lennox 24C4101 Lennox 47A7301 McQuay 282101B14 McQuay 282101B2 McQuay 282101B3 Rheem 42-22326-01

SPST AND SPDT FAN RELAYS



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

Item ID	Description	Amp Res.	FLA/LRA at 125 Volts	FLA/LRA at 250 Volts	Coil Voltage	Replaces
Packard						
PR290Q	SPST-NO	16	—	8/25	24 VAC	90-290Q
PR291Q	SPST-NO	16	—	8/25	120 VAC	90-291Q
PR292Q	SPST-NO	16	—	8/25	240 VAC	90-292Q
PR293Q	SPDT	16	—	8/25	24 VAC	90-293Q
PR294Q	SPDT	16	—	8/25	120 VAC	90-294Q
PR295Q	SPDT	16	—	8/25	240 VAC	90-295Q
PR360	SPST-NO	18	12/60	8/48	24 VAC	90-360
PR362	SPST-NO	18	12/60	8/48	120 VAC	90-362
PR370	SPDT	18	12/60	8/48	24 VAC	90-370
PR372	SPDT	18	12/60	8/48	120 VAC	90-372
PR374	SPDT	18	12/60	8/48	240 VAC	90-374
PR380	SPST NO + NC	18	12/60	8/48	24 VAC	90-380
PR382	SPST NO + NC	18	12/60	8/48	120 VAC	90-382
PR384	SPST NO + NC	18	12/60	8/48	240 VAC	90-384



SWITCHING RELAYS



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

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

RELAY OVERLOADS

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

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



HEAT SEQUENCERS



HS24A341

HS24A342

HS24A343

HS24A344

HS24A345



HS24A346

HS24A3414

FEATURES

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

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

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

HEAT SEQUENCERS



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

PACKARD ROUND SILICON NITRIDE IGNITERS



FEATURES

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



NITRIDE



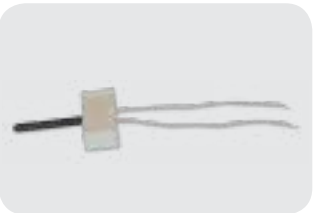
Item ID	IG1121N
Replaces	Goodman B1401015 Modine 5H075032B
• 5.5" Leads with connector	
• Mounting bracket included	



Item ID	IG1401N
Replaces	Amana 10041601 Amana B1336102 Amana D99182 Starlite 11120-100-1401 Trianco-Heatermaker 2600-359
• Gasket included	
• 5.5" Leads with connector	
• 9" Leads with connector	



Item ID	IG1402N
Replaces	Amana 10755002 Armstrong 38322B001 Clare C-238 / C-242 DMO 20834 / 26789 Dornback 271W Goodman B11726-06 Rheem 62-22441-01 Williamson 09050 Trane 340039P01, IGN23
• 19" Leads with wire nuts	



Item ID	IG1403N
Replaces	Amana B138196P01 Raypak 600915 Snyder General 1380654 Trane B138196P01 Trane IGN26 Trane IGN30 Weil McLain 511-330-193
• 5.5" Leads with wire nuts	



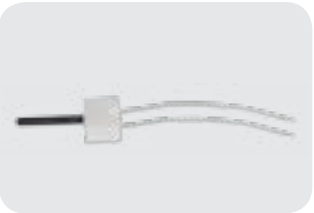
Item ID	IG1405N
Replaces	Heil Quaker 1001344 Heil Quaker 1148145 York 025-27766-00 York 025-27774-000 York 025-29043-000
• 5.5" Leads with wire nuts	
• 12" Leads with connector	



Item ID	IG1408N
Replaces	Amana 340039P01 Lennox 98P78 Rheem 62-2241-01 Rheem 62-2268-92 Rheem 62-22868-93 Trane B340039P01 Trane IGN-0034 Starlite 11120-100-1408 Whirlpool 99794328
• 5.5" Leads with connector	



Item ID	IG1409N
Replaces	Carrier LH33ZS001 Carrier LH33ZS002 Carrier LH33ZS003 Carrier LH33ZS004 Ducane 20015201 Snyder General 1380672 Snyder General 1380680 Trane IGN26 Weil McLain 511-330-139
• 5.5" Leads with connector	



Item ID	IG1410N
Replaces	Amana B144676P01 Trane B144676P01
• 5.5" Leads with connector	



Item ID	IG1411N
Replaces	Norton 271N Rheem 62-22868-82
• Includes bracket & connector	



Item ID	IG1412N
Replaces	Goodman B1401009 Heil Quaker 1009604 ICP 1009604 Norton 271NM
• 5.5" Leads with connector	



Item ID	IG1414N
Replaces	Goodman B14010-15S Norton 271NM Norton MB457025 767A-384
• 5.5" Leads with connector	
• Includes brackets and wire nuts	

PACKARD SILICON CARBIDE IGNITERS

FEATURES

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



Item ID	IG3033
Replaces	Trane KIT03033

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



Item ID	IG1121
Replaces	Goodman B1401015 Modine 5H075032B

- 5.5" Leads with connector
- Mounting bracket included



Item ID	IG1403
Replaces	Amana B138196P01 Raypak 600915 Snyder General 1380654 Trane B138196P01 Trane IGN26 Trane IGN30 Weil McLain 511-330-193

- 5.5" Leads with wire nuts



Item ID	IG1407
Replaces	Trane B144676P02 Trane IGN30

- 5.5" Leads with connector



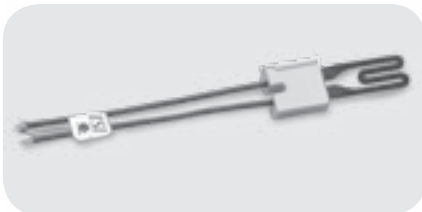
Item ID	IG1401
Replaces	Amana 10041601 Amana B1336102 Amana D99182 Starlite 11120-100-1401 Trianco-Heatermaker 2600-359

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



Item ID	IG1402
Replaces	Amana 10755002 Armstrong 38322B001 Clare C-238 / C-242 DMO 20834 / 26789 Dornback 271W Goodman B11726-06 Rheem 62-22441-01 Williamson 09050 Trane 340039P01, IGN23

- 19" Leads with wire nuts



Item ID	IG1405
Replaces	Heil Quaker 1001344 Heil Quaker 1148145 York 025-27766-00 York 025-27774-000 York 025-29043-000

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



Item ID	IG1406
Replaces	Glowcore HSRK-7 Lochinvar PLT2400 Spiral Igniter FY009 Weil McLain 511-330-188

- Gasket included
- 11" Leads with wire nuts

PACKARD SILICON CARBIDE IGNITERS



Item ID	IG1408
Replaces	Amana 340039P01 Lennox 98P78 Rheem 62-2241-01 Rheem 62-22868-92 Rheem 62-2268-93 Trane B340039P01 Trane IGN-0034 Starlite 11120-100-1408 Whirlpool 99794328

- 5.5" Leads with wire nuts



Item ID	IG1411
Replaces	Norton 271N Rheem 62-22868-82

- Includes bracket & connector



Item ID	IG1409
Replaces	Carrier LH33ZS001 Carrier LH33ZS002 Carrier LH33ZS003 Carrier LH33ZS004 Ducane 20015201 Snyder General 1380672 Trane IGN26 Snyder General 1380680 Weil McLain 511-330-139

- 5.5" Leads with connector



Item ID	IG1412
Replaces	Goodman B1401009 Heil Quaker 1009604 ICP 1009604 Norton 271NM

- 5.5" Leads with connector



Item ID	IG1410
Replaces	Amana B144676P01 Trane B144676P01

- 5.5" Leads with connector



Item ID	IG1414
Replaces	Goodman B14010-15S Norton 271NM Norton MB457025 767A-384

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

UNIVERSAL AND SPECIALTY SILICON NITRIDE HOT SURFACE IGNITER KITS

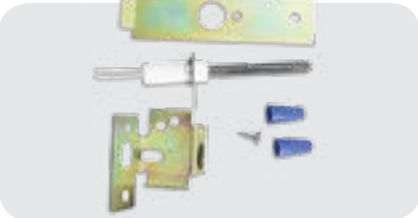
FEATURES

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



Item ID	IG0001	
Replaces		
Goodman 023K00000S	Goodman B1401015S	Goodman B1401018S

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



Item ID	IG1114
Replaces	
Nordyne 903758	Nordyne 632363
Nordyne 632354	Nordyne 903597

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



Item ID	IG0004N
Replaces	
Carrier LH33ZS004	

- Silicone nitride igniter



Item ID	IG1090N		
Replaces			
Norton 101M	Norton 201P	Norton 271NM	
Norton 201D	Norton 201W	Norton 271P	
Norton 201K	Norton 271	Norton 271R	
Norton 201L	Norton 271D	Norton 271RS	
Norton 201M	Norton 271M	Norton 271W	
Norton 201N	Norton 271N	May also be used to replace Gas dryer igniters.	

- 120 Volt
- Universal flat glo-stix



Item ID	IG1000N		
Replaces			
Norton 201	Norton 201N	Norton 271M	
Norton 201D	Norton 201R	Norton 271N	
Norton 201J	Norton 201W	Norton 271NM	
Norton 201K	Norton 201Y	Norton 271P	
Norton 201L	Norton 271	Norton 271W	
Norton 201M	Norton 271D	Norton 271Y	
Honeywell Q3200U1000\$			

- 120 Volt
- Universal flat glo-stix



Item ID	IG1413N	
Replaces		
Carlin 87197S	Norton 201C	

- 120 Volt
- Special flat glo-stix



Item ID	IG9500	
Replaces		
ICP 1009524	Honeywell Q3450	
ICP 1149856	Honeywell Q3480	
Honeywell Q3400A1016	Honeywell Q3620	
Honeywell Q3400A1024	Igniters Direct "SMART LITE"	
Honeywell Q3400A1040		

- 120 Volt
- Silicon nitride design



Item ID	IG80V
Replaces	
Amana 11111701	Trane IGN00104
Lennox 41K5601	Trane IGN0104
Thermo Products 768A-143	Trane IGN033
Trane B340970PO1	Trane IGN059
Trane IGN00117	CAR768A845
Trane IGN00033	CARIGN00117
Trane IGN00059	HS100117A

- 80 Volt / 120 watts
- Direct universal replacement

THERMOCOUPLES

FEATURES

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



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

DITEK SURGE PROTECTOR



FEATURES

- 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

Item ID	Serving Writing	Peak Surge Current	MCOV	UL 1449, 3rd Ed. V.P.R.	Short Circuit Current Rating	UL1449, 3rd Ed. In Rating
Ditek Surge Protector						
PSP72KA	Split Φ (2W + G), 120/240VAC	72,000A/Phase 36,000A/Mode	130/260V	500V L-G, 900V L-L	10,000A	10,000A

INSTALLATION KITS FOR BRISTOL COMPRESSORS



VIEW COMPLETE BOM

FEATURES

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

Item ID	COMPKIT1
Tons	1 1/2
For Use With Bristol Compressor Model #	H2EB18SABCA H2EB18SABCB H2EB223ABCA

Item ID	COMPKIT2
Tons	2
For Use With Bristol Compressor Model #	H22J22BABCA H2EB24SABCA H2EB24SABCB

Item ID	COMPKIT3
Tons	1 1/4 to 1 1/2
For Use With Bristol Compressor Model #	H22J15BABCA H22J18BABCA

Item ID	COMPKIT4
Tons	2 to 2 1/2
For Use With Bristol Compressor Model #	H22J25BABCA H22J29BABCA

Item ID	COMPKIT5
Tons	3
For Use With Bristol Compressor Model #	H22A503ABCA H22J33BABCA

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

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

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

Item ID	COMPKIT9
Tons	5
For Use With Bristol Compressor Model #	H22A583ABCA H22A623ABCA

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



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 Hermetic or Scroll compressors
- Quick connect terminals
- Bleed down resistor to safely discharge the capacitor



Item ID	Capacitor Size (µF)	HP Rating	Compressor	Pick-Up Voltage (VAC)	Maximum Coil Voltage (VAC)	Replaces
TorQstart						
TQS1	189-227	1 1/2 thru. 3 1/2	Recip and Scroll	239-268	502	TO-5 SK3W3
TQS2	270-324	3 1/2 thru. 6	Recip and Scroll	280-315	502	KS1 SK3W6S

HARD START KITS AND ALL IN ONE HARD START PACKS



STANDARD RELAY AND 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 on run capacitors
- Designed for 115 volt thru 277 volt systems
- Mounts easily with either screw or clip

Item ID	Operating Voltage (VAC)	Recommended range (HP)	Increase in Torque (%)	Replaces
TorQstart				
TQS5	115-277	1/2 to 10	300%	32701 600-057 SPP5
TQS6	115-277	1/2 to 10	500%	32702 600-052 SPP6
TQS8	115-277	1/2 to 10	600%	32708 SPP7S



ALL PURPOSE HARD START PACK FEATURES

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

Item ID	Compressor Sizes	Volts	Replaces
TorQstart			
TQS21	1/2 HP	115	600-210 RCO210
TQS41	1/4 and 1/3 HP	115	600-410 RCO410
TQS81	1/12 thru 1/5 HP	115	600-810 RCO810

SPUN COPPER DRIERS



FEATURES

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

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

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

Air Handling | PROPELLERS & BLOWER WHEELS



HUBS WITH SET SCREWS & MTG SCREWS

Item ID	Bore (in.)	Set Screws
Packard		
H60765802	5/16	1
H60765803	3/8	1
H60765804	1/2	2
H60765805	5/8	2



PITCH GAUGE



DON'T FORGET!

Item ID	PG5099801
See Page 73	



FAN BLADE & BLOWER WHEEL PULLER

DON'T FORGET!

Item ID	A89000
See Page 73	



FLEX MOUNT BRACKETS



Item ID	Diameter (in.)
TFM50	5
TFM55	5 5/8

FOUR LEG TORSION FLEX MOUNT BRACKET



Item ID	Diameter (in.)
TFM554	5 5/8

FLEX MOUNT BRACKET ADJUSTABLE DIAMETER



Item ID	Diameter (in.)
TFM556	5 - 5 5/8

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

MOUNTING BRACKETS



Item ID	Diameter (in.)	Frame
A60042	5	42
A60048	5 5/8	48

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

MOUNTING BRACKETS



Item ID	Diameter (in.)	Bolt Circle
A80293	5.5	6 7/8 - 8 1/8
A80295	5.5	8 1/8 - 12 1/8

RHEEM MOTOR MOUNTING BRACKET



Item ID	Brand
A60306K	Packard

Used on RHEEM condensing units.

RHEEM FLEX MOUNTING BRACKET



Item ID	Brand
A61698K	Packard

Kit includes 4 brackets and 8 screws.

CONDENSER FAN RAINSHIELD



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

CONDENSER FAN RAINSHIELD DEEP DISH STYLE



Dimensions (in.)		
Item ID	Bore Dia.	O.D.
A80105	1/2	7

SHAFT EXTENSION KITS



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

RUBBER GROMMET KIT



Item ID	Brand
A60049K	Packard

RUBBER VIBRATION INSULATOR



Item ID	Stud Dimensions (in.)
A61519K	3/8 X 8-32 X 3/8

Used on Coleman motors. Four per package.

RHEEM MOUNTING CABLES



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

CONDUIT KIT



Item ID	Brand
A60102	Packard

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

ANTI-WIND BRAKES



Item ID	Diameter (in.)
A60012	1/2
A60058	5/8

Used to stop wind milling of rooftop motors.

UNIT BEARING MOTOR BRACKET



Item ID	Diameter (in.)
A68004	Packard

Bracket for unit bearing motors.

SAND SCREEN



Item ID	Brand
A52008	Packard

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

CAPACITOR MOUNTING KIT



Item ID	Brand
A60010	Packard

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

CAP GUARD



Item ID	Brand
A60000	Packard

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

PITCH GAUGE



Item ID	Brand
PG5099801	Packard

To aid in determining pitch of the fan blade.

FAN BLADE & BLOWER WHEEL PULLER



Item ID	Brand
A89000	Packard

HUBS WITH SET & MTG SCREWS



Item ID	Bore	Set Screws
H60765803	3/8"	1
H60765804	1/2"	2
H60765805	5/8"	2

CAPACITOR BRACKETS



Item ID	Capacitor Length (in.)
A76501	4 3/8
A76502	3 3/8
A76503	2 3/4

For motor start capacitors. 5 per package.

CAPACITOR BRACKETS



Item ID	Diameter (in.)
A75400	1 3/4
A75500	2
A75600	2 1/2

For round motor run capacitors 5 per package.

CAPACITOR BRACKETS



Item ID	Dimensions (in.) Width x Depth
A75100	1 5/16 X 2 5/32
A75200	1 29/32 X 2 29/32
A75300	1 31/32 X 3 21/32

For oval motor run capacitors. 5 per package.

CAPACITOR END CAPS - TOP LEAD HOLE



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

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

CAPACITOR END CAPS - BOTTOM LEAD HOLE



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

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

CAPACITOR JUMPERS



Item ID	Brand
A63004	4
A63006	6

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

CAPACITOR RESISTOR WITH 1/4" FEMALE TERMINALS



Item ID	OHMS	Watts
A63106	15000	2

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

CAPACITOR RESISTOR



Item ID	OHMS	Watts
A63105	15000	2

10 per package. 5 per package.

RUBBER BOOTS (LEAD PROTECTORS FOR MOTOR RUN CAPACITORS)



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

DIGITAL CAPACITOR TESTER



Item ID	Description
CT1	Digital Capacitor Tester

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

SERIES 7710 FORGED BRASS



7710T



STYLE 7710T – THREADED – NO LEAD

• BALL VALVE • FULL PORT • 600 PSI

- Made in Italy
- 600 PSI WOG/150 PSI WSP
- -20°F to 300°F temperature range
- Full port for maximum flow rate
- Double Viton O-ring - blowout-proof stem design
- PTFE Discs and Seats
- Internal & External anit-friction stem washers
- Hollow ball for lighter weight and longer seat life
- Corrosion-resistant Dacromet-coated steel handle
- CSA ANSI Z 21.15 (1/2 PSIG)
- CSA Certified to ASME B16.33 (5G)
- CSA Certified to ASME B16.44 (125G)
- CSA tamper proof handle
- UL Gas Shutoff valve (YRPV)
- UL Manual valves (MHKZ)
- UL Compressed Gas Shutoff valve (YQNZ)
- UL Flammable liquid Shutoff valve (YRBX)
- UL LP-Gas Shutoff valve (YSDT)
- FM Approved - Fire Protection
- Conforms to MSS-SP-110
- Meets Fed Spec WW-V-35, Type II, Class A Style 3
- Threaded ends comply with ANSI B1.20.1
- Certified to NSF 61-G
- "Lead-Free" Compliant



7710S



STYLE 7710S – SOLDER – NO LEAD

• BALL VALVE • PREMIUM • FULL PORT • 600 PSI

- Made in Italy
- 600 PSI WOG/150 PSI WSP
- -20°F to 300°F temperature range
- Full port for maximum flow rate
- Double Viton O-ring - blowout-proof stem design
- PTFE Discs and Seats
- Internal & External anit-friction stem washers
- Hollow ball for lighter weight and longer seat life
- Corrosion resistant Dacromet coated steel handle
- CSA Certified
- CSA tamper proof handle
- UL Listed
- FM Approved - Fire Protection
- Conforms to MSS-SP-110
- Meets Fed Spec WW-V-35, Type II, Class A Style 3
- Solder ends comply with ANSI B16.18
- Certified to NSF 61-G
- "Lead-Free" Compliant

FORGED BRASS SERIES 7700

STYLE 7700T – THREADED – NO LEAD

• BALL VALVE • FULL PORT • PACKING GLAND

- 600 PSI WOG/150 WSP (1/2" - 2")
- -20°F to 300°F temperature range
- Full port for maximum flow rate
- Packing Gland - blowout-proof stem design
- PTFE seat and packing
- Chrome-plated brass ball and stem
- Rust-resistant heavy-duty handle with vinyl grip
- CSA Certified to ASME B16.33 (5G)
- CSA Certified to ASME B16.44 (125G)
- CR91-002 (1/2, 2, & 5psig)
- UL Gas Shutoff valve (YRPV)
- UL Manual valves (MHKZ)
- UL Compressed Gas Shutoff valve (YQNZ)
- UL Flammable liquid Shutoff valve (YRBX)
- UL LP-Gas Shutoff valve (YSDT)
- FM Approved - Fire Protection
- Threaded ends comply with ANSI B1.20.1
- IAPMO Listed to cUPC
- Certified to NSF 61-G
- "Lead-Free" Compliant

STYLE 7700S – SOLDER – NO LEAD

• BALL VALVE • FULL PORT • PACKING GLAND

- 600 PSI WOG/150 WSP (1/2" - 2")
- -20°F to 300°F temperature range
- Full port for maximum flow rate
- Packing Gland - blowout-proof stem design
- PTFE seat and packing
- Chrome-plated brass ball and stem
- Rust-resistant heavy-duty handle with vinyl grip
- Solder ends comply with ANSI B16.18
- IAPMO Listed to cUPC
- Certified to NSF 61-G
- "Lead-Free" Compliant



7700T

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
107-823NL	1/2"	FPT x FPT	-	20	0.46
107-824NL	3/4"	FPT x FPT	-	15	0.69
107-825NL	1"	FPT x FPT	-	10	1.10
107-826NL	1-1/4"	FPT x FPT	4	24	1.64



7700S

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
107-843NL	1/2"	C x C	-	25	0.40
107-844NL	3/4"	C x C	-	15	0.66
107-845NL	1"	C x C	-	10	1.06
107-846NL	1-1/4"	C x C	4	24	1.51

FORGED BRASS SERIES 7701G



STYLE 7701G – LEVER HANDLE

• GAS BALL VALVE • ONE-PIECE BODY

- Made in Italy
- -20°F - 300°F temperature range
- Quarter-turn lever handle for positive on/off operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- One-piece body for leak resistance and long valve life
- Chrome-plated brass ball
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- UL listed
- Threaded ends comply with ANSI



7701G

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
110-523	1/2"	FPT x FPT	10	100	0.39
110-524	3/4"	FPT x FPT	10	100	0.58

STYLE 7701GST – FEMALE X FEMALE

• GAS BALL VALVE • ONE-PIECE BODY • SIDE TAPPED

- Made in Italy
- -20°F - 300°F temperature range
- T-handle provides easy-to-turn operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- One-piece body for leak resistance and long valve life
- Chrome-plated brass ball
- 1/8" NPT side tap for pressure test, drain, line extension, and more (plug included)
- Save on parts & labor by attaching manometer to line testing at valve
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- UL listed
- Threaded ends comply with ANSI B1.20.1



7701GST

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
110-553	1/2"	FPT x FPT	10	100	0.42
110-554	3/4"	FPT x FPT	10	100	0.61

STYLE 7701GFL – FLARE X FLARE

• GAS BALL VALVE • ONE-PIECE BODY • FLARE END

- Made in Italy
- -20°F - 300°F temperature range
- Quarter-turn lever handle for positive on/off operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- One-piece body for leak resistance and long valve life
- Chrome-plated brass ball
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- Threaded flare ends comply with SAE J513



7701GFL

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
116-502	3/8"	FLARE x FLARE	10	100	0.36
116-503	1/2"	FLARE x FLARE	10	100	0.34
116-504	5/8"	FLARE x FLARE	10	100	0.52

STYLE 7701GFLF – FLARE X FEMALE

• GAS BALL VALVE • ONE-PIECE BODY • FLARE END

- Made in Italy
- -20°F - 300°F temperature range
- Quarter-turn lever handle for positive on/off operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- One-piece body for leak resistance and long valve life
- Chrome-plated brass ball
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- Threaded flare ends comply with SAE J513
- Threaded ends comply with ANSI B1.20.1



7701GFLF

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
114-522	3/8" x 1/2"	FLARE x FPT	10	100	0.34
114-523	1/2"	FLARE x FPT	10	100	0.35

SERIES 7702G FORGED BRASS



7702G

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
110-123HC	1/2"	FPT x FPT	-	20	0.35
110-124HC	3/4"	FPT x FPT	-	10	0.53
110-125	1"	FPT x FPT	6	30	0.85



STYLE 7702G – LEVER HANDLE

• GAS BALL VALVE • TWO-PIECE BODY

- Made in Italy
- -20°F - 300°F temperature range
- Quarter-turn lever handle for positive on/off operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- Two-piece body design
- Chrome-plated brass ball
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- UL listed
- Threaded ends comply with ANSI B1.20.1



7702GE

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
110-223C	1/2"	FPT x FPT	10	100	0.33
110-224C	3/4"	FPT x FPT	10	100	0.48



STYLE 7702GE – LEVER HANDLE

• GAS BALL VALVE • TWO-PIECE BODY

- Made in Italy
- -20°F - 300°F temperature range
- Quarter-turn lever handle for positive on/off operation
- Coated aluminum handle for corrosion and solvent resistance
- Multi-directional flow
- Two-piece body design
- Chrome-plated brass ball
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- UL listed
- Threaded ends comply with ANSI B1.20.1

Valves & Connectors | LOG LIGHTER VALVES

STYLE 7702GLLC – STRAIGHT

• LOG LIGHTER VALVE W/KEY

- 158,000 BTU/hr. capacity
- -20°F - 300°F temperature range
- Chrome-plated brass ball
- Multi-directional flow
- Decorative chrome plated face plate and key
- Ideal for natural and artificial fireplaces
- Valve key included
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- Threaded flare ends comply with SAE J513



7702GLLC

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
118-001	1/2"	FPT x FPT	-	25	0.76

STYLE 7702GLLB – STRAIGHT

• LOG LIGHTER VALVE W/KEY

- 158,000 BTU/hr. capacity
- -20°F - 300°F temperature range
- Chrome-plated brass ball
- Multi-directional flow
- Decorative chrome plated face plate and key
- Ideal for natural and artificial fireplaces
- Valve key included
- CSA - ANSI Z21.15 (1/2 PSIG)
- ANSI/ASME B16.44 (5G)
- Threaded flare ends comply with SAE J513



7702GLLB

Item ID	Size	Connection	Inner Qty.	Master Qty.	Each Wt.
118-003	1/2"	FPT x FPT	-	25	0.76

PART NUMBER SCHEMATICS

GAS CONNECTOR

Gas Connector Example					
1ngth	2	3	4	5	6
G	012	SS	10	11	36
Gas	1/2" ID	Stainless	1/2" MIP	1/2" FIP	36" Length

Character 1: Application

G	Gas
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Character 2: Diameter of Connector

014	1/4" ID (3/8" OD)
038	3/8" ID (1/2" OD)
012	1/2" ID (5/8" OD)
034	1" ID (7/8" OD)

Character 3: Coating

SS	Stainless Steel
YE	Yellow Epoxy Coated

Character 4 & 5: Fitting or Valve Connections (Choose 2)

10	1/2" MIP (Tapped 3/8" FIP)
11	1/2" FIP
12	3/8" MIP (Tapped 1/4" FIP)
13	3/8" FIP
14	3/4" MIP (Tapped 1/2" FIP)
15	3/4" FIP
16	1" MIP (Tapped 1/2" FIP)
17	3/4" FIP
21	1" MIP (Tapped 1/2" FIP)
31	1" FIP
33	3/4" FIP Elbow
41	1/2" FIP Ball Valve
43	3/4" FIP Ball Valve

Character 6: Nominal Length in Inches

1272	18	24	30	36	48	60	
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WATER CONNECTOR

Water Connector Example					
1ngth	2	3	4	5	6
W	034	SS	10	11	18
Water	3/4" ID	Stainless	3/4" MIP	3/4" FIP	18" Length

Character 1: Application

W	Water
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Character 2: Diameter of Connector

034	3/4" ID
100	1" ID
114	1-1/4" ID
112	1-1/2" ID
200	2" ID

Character 3: Coating

SS	Stainless Steel
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Character 4 & 5: Fitting or Valve Connections (Choose 2)

10	3/4" FIP
11	3/4" MIP
12	1" FIP
13	1-1/4" FIP
14	1-1/2" FIP
50	3/4" Push-Fit

Character 6: Nominal Length in Inches

12/A	15	18	24	36	48	N/A	N
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GAS APPLIANCE CONNECTORS STAINLESS STEEL



G012YE151560



G012YE103118



G034YE141518

- FLEXCONNECT PRO
- YELLOW EPOXY-COATED

Item ID	Connections	Available Lengths							
1/4" ID (3/8" OD)									
G014YE_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G014YE_ _ 31	Fitting x 1/2" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G014YE_ _ 41	Fitting x 1/2" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G014YE5050*	3/8" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
3/8" ID (1/2" OD)									
G038YE_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G038YE_ _ 31	Fitting x 1/2" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G038YE_ _ 41	Fitting x 1/2" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G038YE5151*	1/2" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
1/2" ID (5/8" OD)									
G012YE_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G012YE_ _ 31(33)	Fitting x 1/2" or 3/4" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G012YE_ _ 43	Fitting x 3/4" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G012YE5252*	5/8" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
3/4" ID (1" OD)									
G034YE_ _ _ _	3/4" Fitting x 3/4" Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G034YE_ _ _ _	1" Fitting x 1" Fitting	12"	18"	24"	30"	36"	48"	60"	72"
Carton Quantity		25	25	25	25	25	25	25	25



FLEXCONNECT PRO GAS APPLIANCE CONNECTORS SPECIFICATIONS

- Zinc-plated steel S45C fittings
- Yellow epoxy coating on select items
- CSA certified up to 0.5 PSIG
- Operating temperature: -40° F to 150° F
- CSA - ANSI Z21.24 / CSA 6.10
- CSA - ANSI Z21.69 / CSA 6.16
- CSA - ANSI Z21.75 / CSA 6.27

Straight Length Capacity (BTU/Hr., 0.64 SpGr., 1,000 BTU per cubic ft. at 0.5" W.C. pressure drop)

Series	Nominal ID" (OD")	12"	18"	24"	30"	36"	48"	60"	72"
014	1/4" (3/8")	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100
038	3/8" (1/2")	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
012	1/2" (5/8")	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000
034	3/4" (1")	290,900	290,900	290,900	270,500	255,900	215,900	197,400	173,900

The above flow capacities are the minimum performance requirement per ANSI Z21.24/CSA 6.10 and ANSI Z21.75/CSA 6.27. **Flexconnect Pro Gas Connectors exceed these minimum flow capacities requirements.**

*Nut x Nut Connectors are not CSA design certified.



STAINLESS STEEL GAS APPLIANCE CONNECTORS

- FLEXCONNECT PRO



G012SS101448



G012SS103118



G012SS101112

Item ID	Connections	Available Lengths							
1/4" ID (3/8" OD)									
G014SS_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G014SS_ _ 31	Fitting x 1/2" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G014SS_ _ 41	Fitting x 1/2" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G014SS5050*	3/8" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
3/8" ID (1/2" OD)									
G038SS_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G038SS_ _ 31	Fitting x 1/2" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G038SS_ _ 41	Fitting x 1/2" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G038SS5151*	1/2" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
1/2" ID (5/8" OD)									
G012SS_ _ _ _	Fitting x Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G012SS_ _ 31(33)	Fitting x 1/2" or 3/4" Female Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G012SS_ _ 43	Fitting x 3/4" Female Angle Ball Valve	12"	18"	24"	30"	36"	48"	60"	72"
G012SS5252*	5/8" OD Flare nuts only (No fittings)	12"	18"	24"	30"	36"	48"	60"	72"
3/4" ID (1" OD)									
G034SS_ _ _ _	3/4" Fitting x 3/4" Fitting	12"	18"	24"	30"	36"	48"	60"	72"
G034SS_ _ _ _	1" Fitting x 1" Fitting	12"	18"	24"	30"	36"	48"	60"	72"
Carton Quantity		25	25	25	25	25	25	25	25



FLEXCONNECT PRO GAS APPLIANCE CONNECTORS SPECIFICATIONS

- CSST: Stainless steel 304 (ASTM A240)
- Zinc-plated steel S45C fittings
- CSA certified up to 0.5 PSIG
- Operating temperature: -40° F to 150° F
- CSA - ANSI Z21.24 / CSA 6.10
- CSA - ANSI Z21.69 / CSA 6.16
- CSA - ANSI Z21.75 / CSA 6.27

Straight Length Capacity (BTU/Hr., 0.64 SpGr., 1,000 BTU per cubic ft. at 0.5" W.C. pressure drop)

Series	Nominal ID" (OD")	12"	18"	24"	30"	36"	48"	60"	72"
014	1/4" (3/8")	48,000	43,800	40,000	36,400	33,400	28,300	24,900	23,100
038	3/8" (1/2")	102,000	93,100	85,000	77,100	71,100	60,500	53,200	49,100
012	1/2" (5/8")	180,000	164,200	150,000	136,000	125,000	106,000	93,200	86,000
034	3/4" (1")	290,900	290,900	290,900	270,500	255,900	215,900	197,400	173,900

The above flow capacities are the minimum performance requirement per ANSI Z21.24/CSA 6.10 and ANSI Z21.75/CSA 6.27. **Flexconnect Pro Gas Connectors exceed these minimum flow capacities requirements.**

*Nut x Nut Connectors are not CSA design certified.

BLACK MALLEABLE FITTINGS



We offer one of the most extensive selections of black and galvanized malleable iron fittings in the industry. Available in 13 diameters from 1/8" to 6", every fitting is produced to exact specifications. All galvanized products are zinc-coated for water applications - and meet all low-lead requirements. In addition, all of our iron fittings undergo our rigorous testing and quality inspection.



PRODUCT HIGHLIGHTS

- Stocked in most figures from 1/8" to 6"
- Available in Black finish for oil and gas fluid applications
- Available in Galvanized finish for water, air and steam installations
- Available for servicing 150 psi and 300 psi applications
- Hot dip galvanizing process according to ASTM A-153 standard
- Galvanized Products meet California Lead Plumbing Law

SPECIFICATIONS

- Threaded ends meeting with ANSI/ASME B1.20.1 standard
- Material meeting with ASTM A-197 standard
- Dimensions meet the following:
 - Threaded Fittings - with ASME B16.3 standard
 - Unions - with ASME B16.39 standard
 - Bushing Reducer and Plugs - with ASME B16.14 standard

Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
520-003	BLACK 90 ELBOW 1/2	50	200	9,800	0.22
520-004	BLACK 90 ELBOW 3/4	35	105	5,145	0.36
520-005	BLACK 90 ELBOW 1	20	60	2,940	0.49
520-006	BLACK 90 ELBOW 1 1/4	20	40	1,960	0.85
520-143	BLACK 90 RED ELBOW 3/4 X 1/2	40	120	5,880	0.31
520-144	BLACK 90 RED ELBOW 1 X 1/2	30	90	4,410	0.48
520-154	BLACK 90 RED ELBOW 1 X 3/4	25	75	3,675	0.49
520-157	BLACK 90 RED ELBOW 1 1/2 X 1	20	40	1,960	0.98
520-164	BLACK 90 RED ELBOW 1 1/4 X 3/4	30	60	2,940	0.69
520-165	BLACK 90 RED ELBOW 1 1/4 X 1	20	40	1,960	0.80
520-303	BLACK 90 STREET ELBOW 1/2	60	180	8,820	0.22
520-304	BLACK 90 STREET ELBOW 3/4	35	105	5,145	0.39
520-305	BLACK 90 STREET ELBOW 1	30	60	2,940	0.62
520-306	BLACK 90 STREET ELBOW 1 1/4	18	72	2,016	0.97
520-203	BLACK 45 ELBOW 1/2	50	200	9,800	0.22
520-204	BLACK 45 ELBOW 3/4	40	120	5,880	0.32
520-205	BLACK 45 ELBOW 1	20	60	2,940	0.54
520-206	BLACK 45 ELBOW 1 1/4	20	80	2,240	0.75
520-502	BLACK 45 STREET ELBOW 3/8	50	300	14,700	0.13
520-503	BLACK 45 STREET ELBOW 1/2	40	240	11,760	0.19
520-504	BLACK 45 STREET ELBOW 3/4	60	120	5,880	0.28
520-505	BLACK 45 STREET ELBOW 1	25	75	3,675	0.48
520-506	BLACK 45 STREET ELBOW 1 1/4	20	80	2,240	0.75
520-603	BLACK TEE 1/2	40	120	5,880	0.30
520-604	BLACK TEE 3/4	35	70	3,430	0.49
520-605	BLACK TEE 1	20	40	1,960	0.76
520-606	BLACK TEE 1 1/4	14	28	1,372	1.24
520-433	BLACK RED TEE 3/4 X 1/2 X 1/2	45	90	4,410	0.40
520-434	BLACK RED TEE 3/4 X 1/2 X 3/4	45	90	4,410	0.53
520-743	BLACK RED TEE 3/4 X 3/4 X 1/2	45	90	4,410	0.42
520-533	BLACK RED TEE 1 X 1/2 X 1/2	20	120	3,360	0.53
520-534	BLACK RED TEE 1 X 1/2 X 3/4	25	100	2,800	0.61

Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
520-543	BLACK RED TEE 1 X 3/4 X 1/2	25	100	2,800	0.58
520-544	BLACK RED TEE 1 X 3/4 X 3/4	25	50	2,450	0.67
520-644	BLACK RED TEE 1 1/4 X 3/4 X 3/4	18	72	2,016	0.80
520-645	BLACK RED TEE 1 1/4 X 3/4 X 1	16	64	1,792	0.89
520-646	BLACK RED TEE 1 1/4 X 3/4 X 1 1/4	16	32	1,568	1.08
520-655	BLACK RED TEE 1 1/4 X 1 X 1	18	36	1,764	1.05
520-663	BLACK RED TEE 1 1/4 X 1 1/4 X 1/2	16	64	1,792	0.93
520-664	BLACK RED TEE 1 1/4 X 1 1/4 X 3/4	18	36	1,764	0.99
520-765	BLACK RED TEE 1 1/4 X 1 1/4 X 1	16	32	1,568	1.08
521-203	BLACK COUPLING 1/2	60	240	11,760	0.18
521-204	BLACK COUPLING 3/4	50	150	7,350	0.27
521-205	BLACK COUPLING 1	25	75	3,675	0.40
521-206	BLACK COUPLING 1 1/4	32	64	3,136	0.60
521-343	BLACK RED COUPLING 3/4 X 1/2	60	180	8,820	0.22
521-353	BLACK RED COUPLING 1 X 1/2	30	120	5,880	0.30
521-354	BLACK RED COUPLING 1 X 3/4	30	120	5,880	0.36
521-364	BLACK RED COUPLING 1 1/4 X 3/4	25	75	3,675	0.61
521-365	BLACK RED COUPLING 1 1/4 X 1	25	75	3,675	0.62
521-403	BLACK CAP 1/2	75	450	22,050	0.12
521-404	BLACK CAP 3/4	40	240	11,760	0.17
521-405	BLACK CAP 1	35	140	6,860	0.31
521-406	BLACK CAP 1 1/4	25	100	4,900	0.46
521-703	BLACK UNION 1/2	25	100	4,900	0.43
521-704	BLACK UNION 3/4	20	60	2,940	0.62
521-705	BLACK UNION 1	15	45	2,205	0.89
521-706	BLACK UNION 1 1/4	15	30	1,470	1.38
521-803	BLACK SQ HEAD PLUG 1/2	25	600	16,800	0.08
521-804	BLACK SQ HEAD PLUG 3/4	15	360	10,080	0.10
521-805	BLACK SQ HEAD PLUG 1	20	240	6,720	0.20
521-806	BLACK SQ HEAD PLUG 1 1/4	40	120	5,880	0.34
521-943	BLACK HEX BUSHING 3/4 X 1/2	50	300	14,700	0.10
521-954	BLACK HEX BUSHING 1 X 3/4	50	200	9,800	0.17
521-965	BLACK HEX BUSHING 1 1/4 X 1	30	120	5,880	0.29

GALVANIZED MALLEABLE FITTINGS



Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
510-003	GALV 90 ELBOW 1/2	50	200	9,800	0.22
510-004	GALV 90 ELBOW 3/4	35	105	5,145	0.36
510-005	GALV 90 ELBOW 1	20	60	2,940	0.49
510-006	GALV 90 ELBOW 1 1/4	20	40	1,960	0.85
510-143	GALV 90 RED ELBOW 3/4 X 1/2	40	120	5,880	0.31
510-144	GALV 90 RED ELBOW 1 X 1/2	30	90	4,410	0.48
510-154	GALV 90 RED ELBOW 1 X 3/4	25	75	3,675	0.49
510-164	GALV 90 RED ELBOW 1 1/4 X 3/4	30	60	2,940	0.69
510-165	GALV 90 RED ELBOW 1 1/4 X 1	20	40	1,960	0.80
510-303	GALV 90 STREET ELBOW 1/2	60	180	8,820	0.22
510-304	GALV 90 STREET ELBOW 3/4	35	105	5,145	0.39
510-305	GALV 90 STREET ELBOW 1	30	60	2,940	0.62
510-306	GALV 90 STREET ELBOW 1 1/4	18	72	2,016	0.97
510-203	GALV 45 ELBOW 1/2	50	200	9,800	0.22
510-204	GALV 45 ELBOW 3/4	40	120	5,880	0.32
510-205	GALV 45 ELBOW 1	20	60	2,940	0.54
510-206	GALV 45 ELBOW 1 1/4	20	80	2,240	0.75
510-503	GALV 45 STREET ELBOW 1/2	40	240	11,760	0.19
510-504	GALV 45 STREET ELBOW 3/4	60	120	5,880	0.28
510-505	GALV 45 STREET ELBOW 1	25	75	3,675	0.48
510-506	GALV 45 STREET ELBOW 1 1/4	20	80	2,240	0.75
510-603	GALV TEE 1/2	40	120	5,880	0.30
510-604	GALV TEE 3/4	35	70	3,430	0.49
510-605	GALV TEE 1	20	40	1,960	0.76
510-606	GALV TEE 1 1/4	14	28	1,372	1.24
510-433	GALV RED TEE 3/4 X 1/2 X 1/2	45	90	4,410	0.40
510-434	GALV RED TEE 3/4 X 1/2 X 3/4	45	90	4,410	0.53
510-743	GALV RED TEE 3/4 X 3/4 X 1/2	45	90	4,410	0.42
510-533	GALV RED TEE 1 X 1/2 X 1/2	20	120	3,360	0.53
510-534	GALV RED TEE 1 X 1/2 X 3/4	25	100	2,800	0.61
510-543	GALV RED TEE 1 X 3/4 X 1/2	25	100	2,800	0.58

Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
510-544	GALV RED TEE 1 X 3/4 X 3/4	25	50	2,450	0.67
510-644	GALV RED TEE 1 1/4 X 3/4 X 3/4	18	72	2,016	0.80
510-645	GALV RED TEE 1 1/4 X 3/4 X 1	16	64	1,792	0.89
510-646	GALV RED TEE 1 1/4 X 3/4 X 1 1/4	16	32	1,568	1.08
510-655	GALV RED TEE 1 1/4 X 1 X 1	18	36	1,764	1.05
510-663	GALV RED TEE 1 1/4 X 1 1/4 X 1/2	16	64	1,792	0.93
510-664	GALV RED TEE 1 1/4 X 1 1/4 X 3/4	18	36	1,764	0.99
510-765	GALV RED TEE 1 1/4 X 1 1/4 X 1	16	32	1,568	1.08
511-203	GALV COUPLING 1/2	60	240	11,760	0.18
511-204	GALV COUPLING 3/4	50	150	7,350	0.27
511-205	GALV COUPLING 1	25	75	3,675	0.40
511-206	GALV COUPLING 1 1/4	32	64	3,136	0.60
511-343	GALV RED COUPLING 3/4 X 1/2	60	180	8,820	0.22
511-353	GALV RED COUPLING 1 X 1/2	30	120	5,880	0.30
511-354	GALV RED COUPLING 1 X 3/4	30	120	5,880	0.36
511-364	GALV RED COUPLING 1 1/4 X 3/4	25	75	3,675	0.61
511-365	GALV RED COUPLING 1 1/4 X 1	25	75	3,675	0.62
511-403	GALV CAP 1/2	75	450	22,050	0.12
511-404	GALV CAP 3/4	40	240	11,760	0.17
511-405	GALV CAP 1	35	140	6,860	0.31
511-406	GALV CAP 1 1/4	25	100	4,900	0.46
511-703	GALV UNION 1/2	25	100	4,900	0.43
511-704	GALV UNION 3/4	20	60	2,940	0.62
511-705	GALV UNION 1	15	45	2,205	0.89
511-706	GALV UNION 1 1/4	15	30	1,470	1.38
511-803	GALV SQ HEAD PLUG 1/2	25	600	16,800	0.08
511-804	GALV SQ HEAD PLUG 3/4	15	360	10,080	0.10
511-805	GALV SQ HEAD PLUG 1	20	240	6,720	0.20
511-806	GALV SQ HEAD PLUG 1 1/4	40	120	5,880	0.34
511-943	GALV HEX BUSHING 3/4 X 1/2	50	300	14,700	0.10
511-954	GALV HEX BUSHING 1 X 3/4	50	200	9,800	0.17
511-965	GALV HEX BUSHING 1 1/4 X 1	30	120	5,880	0.29

BLACK STEEL NIPPLES



We manufacture both black and galvanized welded steel nipples in 11 diameters from 1" to 4" - and in 14 different lengths ranging up to 12". Available individually or in pre-packaged assortments, we also offer a full selection of pre-cut welded steel pipes in the same diameters and lengths.



PRODUCT HIGHLIGHTS

- Available from 1/8" - 4" Diameters
- Available in Lengths from Closed - 12"
- Available in Black & Galvanized Schedule 40 and 80 Pipe Nipples
- Available in Black & Galvanized Schedule 40, 80, 160 & XXHvy Seamless Nipples
- NAFTA approved
- We also have available Merchant Couplings, Chrome Plated Nipples, Stainless Steel Nipples & Conduit Nipples
- Color coded product labels
- Preferred industry pack quantities
- Galvanized Products meet California Lead Plumbing Law

SPECIFICATIONS

- **Welded Steel Pipe Nipples**
Black and Galvanized Schedules 40 and 80 in sizes from 1/8" through 6"
- ASTM A-733, ASME/ANSI B1.20.1 and ASTM A-53
- **Seamless Steel Pipe Nipples**
Schedule 40 and 80 in sizes 1/8" to 4"
- Black Steel - ASTM A-733, ASME/ANSI B1.20.1 and A-106 grade B

Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
583-001	NIPPLE BLACK 1/2 X CLOSE	25	100	21,600	0.08
583-015	NIPPLE BLACK 1/2 X 1-1/2	25	100	21,600	0.11
583-020	NIPPLE BLACK 1/2 X 2	25	100	25,200	0.14
583-025	NIPPLE BLACK 1/2 X 2-1/2	-	25	14,400	0.18
583-030	NIPPLE BLACK 1/2 X 3	-	25	12,600	0.21
583-035	NIPPLE BLACK 1/2 X 3-1/2	-	25	12,600	0.25
583-040	NIPPLE BLACK 1/2 X 4	-	25	9,450	0.28
583-060	NIPPLE BLACK 1/2 X 6	-	25	7,200	0.43
583-080	NIPPLE BLACK 1/2 X 8	-	25	4,725	0.57
583-100	NIPPLE BLACK 1/2 X 10	-	25	4,725	0.71
583-120	NIPPLE BLACK 1/2 X 12	25	25	4,725	0.85
584-001	NIPPLE BLACK 3/4 X CLOSE	25	100	14,400	0.13
584-015	NIPPLE BLACK 3/4 X 1-1/2	25	100	14,400	0.14
584-020	NIPPLE BLACK 3/4 X 2	-	25	10,800	0.19
584-025	NIPPLE BLACK 3/4 X 2-1/2	-	25	10,800	0.24
584-030	NIPPLE BLACK 3/4 X 3	-	25	7,200	0.28
584-035	NIPPLE BLACK 3/4 X 3-1/2	-	25	7,200	0.33
584-040	NIPPLE BLACK 3/4 X 4	-	25	7,200	0.38
584-060	NIPPLE BLACK 3/4 X 6	-	25	6,300	0.57
584-080	NIPPLE BLACK 3/4 X 8	-	25	3,150	0.76
585-001	NIPPLE BLACK 1 X CLOSE	-	25	5,760	0.21
585-020	NIPPLE BLACK 1 X 2	-	25	5,760	0.28
585-025	NIPPLE BLACK 1 X 2-1/2	-	25	5,760	0.35
585-030	NIPPLE BLACK 1 X 3	-	25	5,760	0.42
585-035	NIPPLE BLACK 1 X 3-1/2	-	25	5,760	0.49
585-040	NIPPLE BLACK 1 X 4	-	25	4,320	0.56
585-045	NIPPLE BLACK 1 X 4-1/2	-	25	-	0.63
585-050	NIPPLE BLACK 1 X 5	-	25	2,880	0.70
585-055	NIPPLE BLACK 1 X 5-1/2	-	25	2,880	0.77
585-060	NIPPLE BLACK 1 X 6	-	25	2,880	0.84
586-001	NPL BLK 1 1/4 X CLS	-	25	2,880	0.31
586-020	NPL BLK 1-1/4 X 2	-	25	2,880	0.38
586-025	NPL BLK 1-1/4X2 1/2	-	25	2,880	0.47
586-030	NPL BLK 1-1/4 X 3	-	25	2,880	0.57
586-035	NPL BLK 1-1/4X3 1/2	-	25	2,160	0.66
586-040	NPL BLK 1-1/4 X 4	-	25	2,160	0.76
586-045	NPL BLK 1-1/4X4-1/2	-	25	2,160	0.85
586-050	NPL BLK 1-1/4 X 5	-	25	2,160	0.95
586-055	NPL BLK 1-1/4X5-1/2	-	25	2,160	1.05
586-060	NPL BLK 1-1/4 X 6	-	25	2,160	1.14

GALVANIZED STEEL NIPPLES

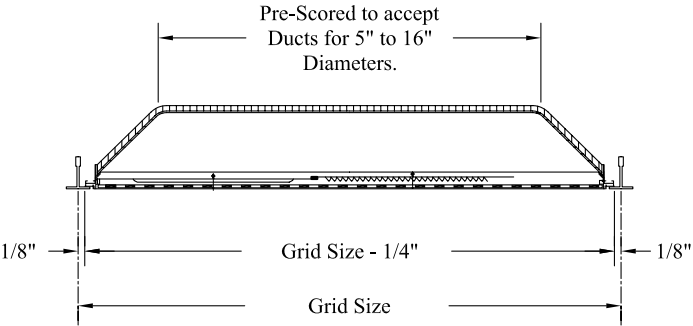


We manufacture both black and galvanized welded steel nipples in 11 diameters from 1" to 4" - and in 14 different lengths ranging up to 12". Available individually or in pre-packaged assortments, we also offer a full selection of pre-cut welded steel pipes in the same diameters and lengths.



Item ID	Description	Inner Qty.	Master Qty.	Skid Qty.	Piece Wt.
563-001	NIPPLE GALV 1/2 X CLOSE	25	100	21,600	0.08
563-015	NPL GLV 1/2 X 1 1/2	25	100	21,600	0.11
563-020	NPL GLV 1/2 X 2	25	100	25,200	0.14
563-025	NPL GLV 1/2 X 2 1/2	-	25	14,400	0.18
563-030	NPL GLV 1/2 X 3	-	25	12,600	0.21
563-035	NPL GLV 1/2 X 3 1/2	-	25	12,600	0.25
563-040	NPL GLV 1/2 X 4	-	25	10,800	0.28
563-060	NPL GLV 1/2 X 6	-	25	7,200	0.43
563-080	NIPPLE GALV 1/2 X 8	-	25	-	0.57
563-100	NIPPLE GALV 1/2 X 10	-	25	-	0.71
563-120	NIPPLE GALV 1/2 X 12	-	25	-	0.85
564-001	NPL GLV 3/4 X CLOSE	25	100	-	0.13
564-015	NPL GLV 3/4 X 1 1/2	25	100	14,400	0.14
564-020	NPL GLV 3/4 X 2	-	25	-	0.19
564-025	NPL GLV 3/4 X 2 1/2	-	25	10,800	0.24
564-030	NPL GLV 3/4 X 3	-	25	-	0.28
564-035	NPL GLV 3/4 X 3 1/2	-	25	7,200	0.33
564-040	NPL GLV 3/4 X 4	-	25	5,400	0.38
564-060	NPL GLV 3/4 X 6	-	25	5,400	0.57
565-001	NIPPLE GALV 1 X CLOSE	-	25	-	0.21
565-020	NIPPLE GALV 1 X 2	-	25	5,760	0.28
565-025	NIPPLE GALV 1 X 2-1/2	-	25	5,760	0.35
565-030	NPL GLV 1 X 3	-	25	5,760	0.42
565-035	NPL GLV 1 X 3 1/2	-	25	5,760	0.49
565-040	NPL GLV 1 X 4	-	25	3,600	0.56
565-060	NPL GLV 1 X 6	-	25	3,600	0.84
566-001	NPL GLV 1-1/4 X CLS	-	25	2,880	0.31
566-020	NPL GLV 1-1/4 X 2	-	25	2,880	0.38
566-025	NPL GLV 1 1/4 X2 1/2	-	25	2,880	0.47
566-030	NPL GLV 1-1/4 X 3	-	25	2,880	0.57
566-035	NPL GLV 1-1/4X3 1/2	-	25	2,160	0.66
566-040	NPL GLV 1-1/4 X 4	-	25	3,240	0.76
566-060	NPL GLV 1-1/4 X 6	-	25	1,080	1.14

PS-FGB



Item ID	Description	Qty Per Case	Qty Per Pallet
CCPS-FGB-WHITE	T-Bar lay-in steel perforated supply diffuser w/R-6 fiberglass back	8	48

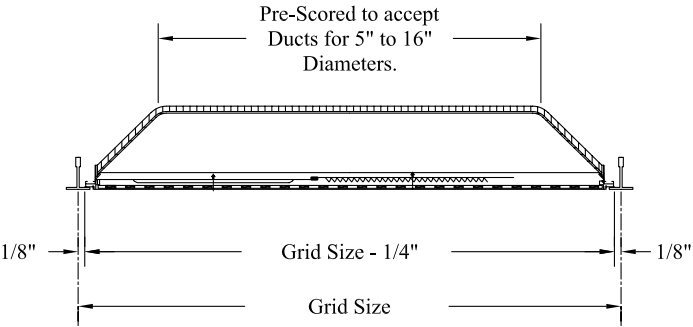
FEATURES

- Four pattern controllers are individually adjustable to allow for field adjustment of throw patterns
- R6 Fiberglass back scored to accommodate 6" to 16" collars (collars not included)

PERFORATED SUPPLY DIFFUSER

- Steel Screen
- Molded Fiberglass Back
- Perforated Screen with 3/16" holes on 1/4" staggered centers
- Steel and aluminum screens available
- Fits standards 24" x 24" T-bar ceilings
- Black interior with a painted white screen

PR-FGB



Item ID	Description	Qty Per Case	Qty Per Pallet
CCPR-FGB-WHITE	T-Bar lay-in steel perforated return diffuser w/R-6 fiberglass back	8	48

FEATURES

- Matching return grille for PS-FGB without deflectors
- R6 Fiberglass back scored to accommodate 6" to 16" collars (collars not included)
- Perforated Screen with 3/16" holes on 1/4" staggered centers

PERFORATED RETURN GRILLE

- Steel Screen
- Molded Fiberglass Back
- Steel and aluminum screens available
- Fits standards 24" x 24" T-bar ceilings
- Black interior with a painted white screen

LCD-T



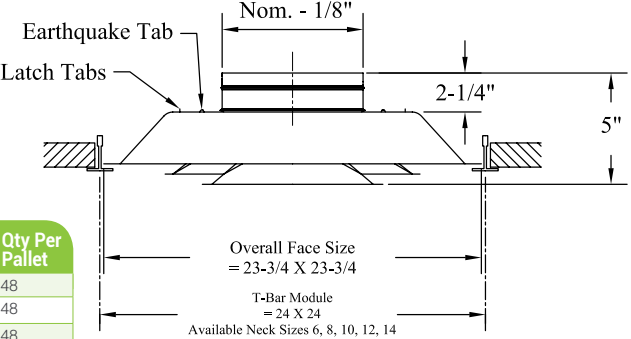
CONE DIFFUSER

- Steel
- High Performance

Item ID	Description	Qty Per Case	Qty Per Pallet
CCLCD-T-FGB-WHITE	T-Bar lay-in cone diffuser w/R-6 fiberglass back	4	48
CCLCD-T-WHITE-6-COLLAR	T-Bar lay-in cone diffuser w 6" collar	4	48
CCLCD-T-WHITE-8-COLLAR	T-Bar lay-in cone diffuser w 8" collar	4	48
CCLCD-T-WHITE-10-COLLAR	T-Bar lay-in cone diffuser w 10" collar	4	48
CCLCD-T-WHITE-12-COLLAR	T-Bar lay-in cone diffuser w 12" collar	4	48
CCLCD-T-WHITE-14-COLLAR	T-Bar lay-in cone diffuser w 14" collar	4	48
CCLCD-T-FGB-WHITE-6-COLLAR	T-Bar lay-in cone diffuser w/R-6 fiberglass back & 6" collar	4	48
CCLCD-T-FGB-WHITE-8-COLLAR	T-Bar lay-in cone diffuser w/R-6 fiberglass back & 8" collar	4	48
CCLCD-T-FGB-WHITE-10-COLLAR	T-Bar lay-in cone diffuser w/R-6 fiberglass back & 10" collar	4	48
CCLCD-T-FGB-WHITE-12-COLLAR	T-Bar lay-in cone diffuser w/R-6 fiberglass back & 12" collar	4	48
CCLCD-T-FGB-WHITE-14-COLLAR	T-Bar lay-in cone diffuser w/R-6 fiberglass back & 14" collar	4	48

FEATURES

- 2 Cone step down standard, snap-in 3rd cone optional (LCD-T-3)
- High capacity 360° horizontal discharge pattern for superior induction
- Designed for VAV applications
- Opposed blade, radial and butterfly dampers optional
- Fits standard 24" x 24" T-bar ceilings
- 2 1/4" collar with bead
- Round necks from 6" to 14" and 14" x 14" square hole available
- R6 Fiberglass insulation available (LCD-T-FGB)
- Other frame styles available
- White paint standard



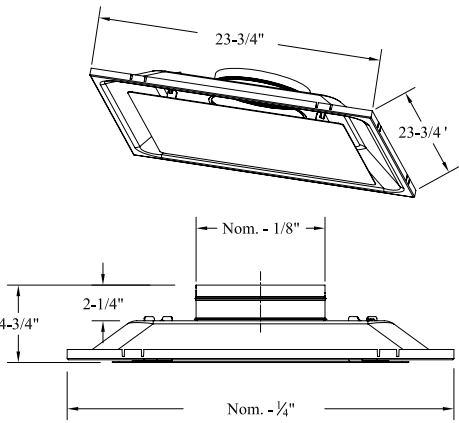
PLAQUE DIFFUSER

- Steel
- High Performance

Item ID	Description	Qty Per Case	Qty Per Pallet
CCPD-FGB-WHITE	T-Bar lay-in plaque diffuser w/R-6 fiberglass back	4	48
CCPD-WHITE-6-COLLAR	T-Bar lay-in plaque diffuser w 6" collar	4	48
CCPD-WHITE-8-COLLAR	T-Bar lay-in plaque diffuser w 8" collar	4	48
CCPD-WHITE-10-COLLAR	T-Bar lay-in plaque diffuser w 10" collar	4	48
CCPD-WHITE-12-COLLAR	T-Bar lay-in plaque diffuser w 12" collar	4	48
CCPD-WHITE-14-COLLAR	T-Bar lay-in plaque diffuser w 14" collar	4	48
CCPD-FGB-WHITE-6-COLLAR	T-Bar lay-in plaque diffuser w/R-6 fiberglass back & 6" collar	4	48
CCPD-FGB-WHITE-8-COLLAR	T-Bar lay-in plaque diffuser w/R-6 fiberglass back & 8" collar	4	48
CCPD-FGB-WHITE-10-COLLAR	T-Bar lay-in plaque diffuser w/R-6 fiberglass back & 10" collar	4	48
CCPD-FGB-WHITE-12-COLLAR	T-Bar lay-in plaque diffuser w/R-6 fiberglass back & 12" collar	4	48
CCPD-FGB-WHITE-14-COLLAR	T-Bar lay-in plaque diffuser w/R-6 fiberglass back & 14" collar	4	48

FEATURES

- Smooth flat center panel for architectural designs
- High capacity 360° horizontal discharge pattern for superior induction
- Excellent static pressure and sound characteristics
- Designed for VAV applications
- Removable center panel for easy access to duct and damper
- Opposed blade, radial and butterfly dampers optional
- Fits standard 24" x 24" T-bar ceilings
- 2 1/4" collar with bead
- Round necks from 6" to 14" and 14" x 14" square hole available
- R6 Fiberglass insulation available (PD-FGB)
- Other frame styles available
- White paint standard



Product Name	Item ID	Page
THERMOCOUPLES	22218	74
THERMOCOUPLES	22224	74
THERMOCOUPLES	22230	74
THERMOCOUPLES	22236	74
THERMOCOUPLES	22248	74
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	30825	33
OEM DIRECT REPLACEMENTS	40250	39
OEM DIRECT REPLACEMENTS	40251	39
OEM DIRECT REPLACEMENTS	40265	39
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	40825	33
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43581	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43582	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43583	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43584	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43585	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43586	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43587	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43588	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43589	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	43590	35
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	43732	33
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	43733	33
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	43734	33
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	43735	33
48/56 FRAME, SPLIT PHASE BELT DRIVER FAN AND BLOWER MOTORS	45012	30
48/56 FRAME, SPLIT PHASE BELT DRIVER FAN AND BLOWER MOTORS	45013	30
48/56 FRAME, SPLIT PHASE BELT DRIVER FAN AND BLOWER MOTORS	45014	30
5 5/8 INCH DIAMETER MULTI-HORSEPOWER DIRECT DRIVE BLOWER MOTORS	45460	35
5 5/8 INCH DIAMETER MULTI-HORSEPOWER DIRECT DRIVE BLOWER MOTORS	45461	35
5 5/8 INCH DIAMETER MULTI-HORSEPOWER DIRECT DRIVE BLOWER MOTORS	45470	35
5 5/8 INCH DIAMETER MULTI-HORSEPOWER DIRECT DRIVE BLOWER MOTORS	45471	35
OEM REPLACEMENT BLOWERS	48331	36
OEM DIRECT REPLACEMENTS	48331	40
OEM REPLACEMENT BLOWERS	48332	36
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	48906	35
5 5/8 INCH DIAMETER DIRECT DRIVE BLOWER MOTORS	48907	35
PERMANENT SPLIT CAPACITOR CONDENSER FAN MOTORS	60825	33
OEM DIRECT REPLACEMENTS	60825	43
UNIT BEARING MOTORS	61002	31
UNIT BEARING MOTORS	61004	31
UNIT BEARING MOTORS	61006	31
UNIT BEARING MOTORS	61009	31
UNIT BEARING MOTORS	61015	31
UNIT BEARING MOTORS	61016	31
UNIT BEARING MOTORS	61017	31
UNIT BEARING MOTORS	61018	31
UNIT BEARING MOTORS	61021	31
UNIT BEARING MOTORS	61029	31
UNIT BEARING MOTORS	61059	31
UNIT BEARING MOTORS	61099	31
UNIT BEARING MOTORS	65001	32

OEM DIRECT REPLACEMENTS	65001	42
OEM DIRECT REPLACEMENTS	65001	43
UNIT BEARING MOTORS	65002	32
UNIT BEARING MOTORS	65003	32
UNIT BEARING MOTORS	65004	32
UNIT BEARING MOTORS	65017	31
OEM DIRECT REPLACEMENTS	65017	40
UNIT BEARING MOTORS	65018	31
OEM DIRECT REPLACEMENTS	65018	40
UNIT BEARING MOTORS	65020	32
OEM DIRECT REPLACEMENTS	65020	39
OEM DIRECT REPLACEMENTS	65020	41
OEM DIRECT REPLACEMENTS	65020	42
OEM DIRECT REPLACEMENTS	65020	44
UNIT BEARING MOTORS	65021	32
OEM DIRECT REPLACEMENTS	65021	41
OEM DIRECT REPLACEMENTS	65021	42
OEM DIRECT REPLACEMENTS	65021	44
UNIT BEARING MOTORS	65022	32
UNIT BEARING MOTORS	65023	32
UNIT BEARING MOTORS	65040	32
OEM DIRECT REPLACEMENTS	65040	39
OEM DIRECT REPLACEMENTS	65040	43
UNIT BEARING MOTORS	65041	32
OEM DIRECT REPLACEMENTS	65041	39
OEM DIRECT REPLACEMENTS	65041	41
OEM DIRECT REPLACEMENTS	65041	42
OEM DIRECT REPLACEMENTS	65041	42
OEM DIRECT REPLACEMENTS	65041	43
UNIT BEARING MOTORS	65042	32
UNIT BEARING MOTORS	65043	32
UNIT BEARING MOTORS	65045	32
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CONTACT INFORMATION

Linesets, Inc
4480 N 43rd Ave #3
Phoenix, AZ 85031

Linesets, Inc
725 Old Norcross Rd. #D
Lawrenceville, GA 30046

Phone - 623-215-9000
Fax - 623-215-9003
csr@linesetsinc.com

www.linesetsinc.com

