REFRIGERATION

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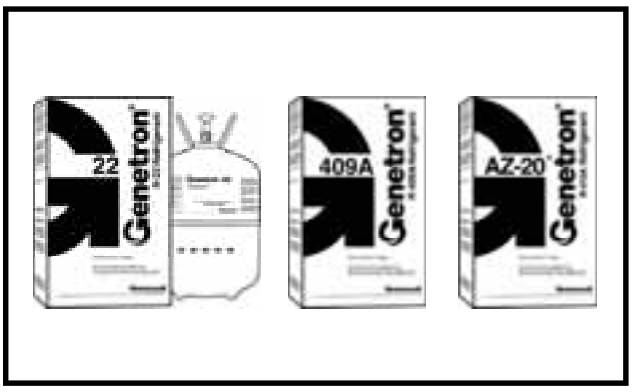
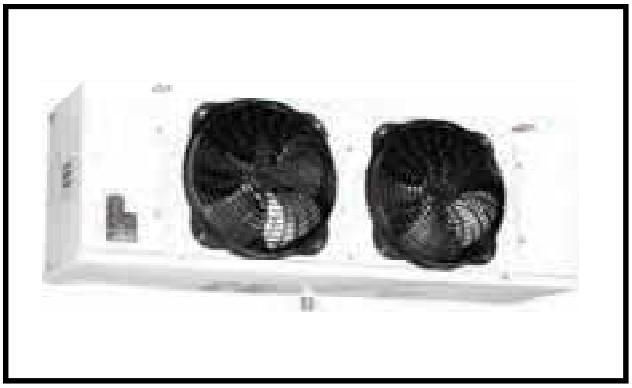


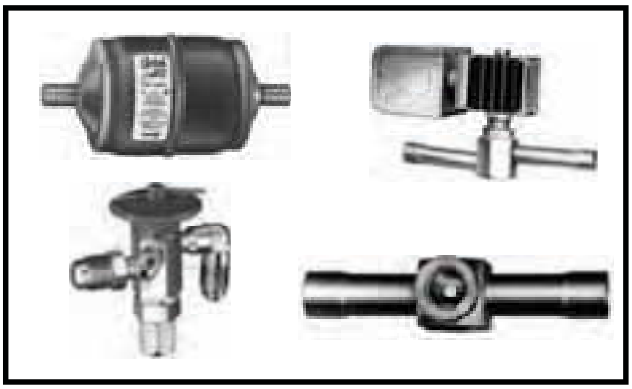
Genetron® Refrigerants

LARKIN



Little GIANT Pump Company

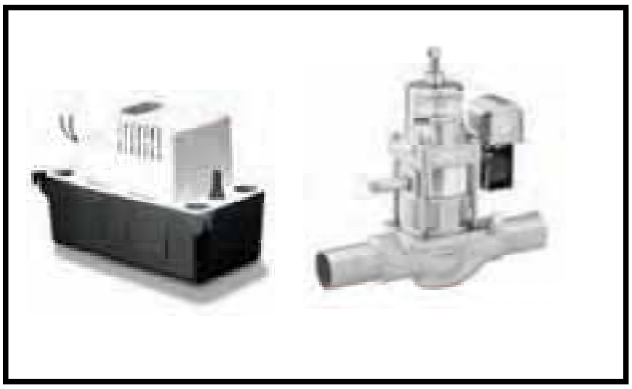
Copeland® brand products



SPORLAN VALVE COMPANY

Superior Refrigeration Products
Harsco

Parker



J/B INDUSTRIES INC.

HENRY TECHNOLOGIES

Wholesale Distributors

ILCO

AURORA

COUNTRYSIDE

ELK GROVE

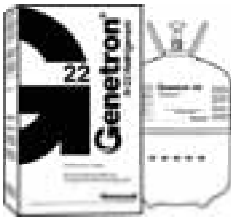
WAUKEGAN

JOLIET

HAMMOND

MILWAUKEE

PEORIA



AIR CONDITIONING

Commercial and Residential

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
8038146 **8038141** **8038131** **8038130**	30 lb. Cylinder 50 lb. Cylinder 125 lb. Cylinder 1750 lb. Cylinder	R-22	R-22	Pure Fluid	-	Alkylbenzene or Mineral Oil	Air Conditioning and Refrigeration	EPA Phaseout Product
8038031 **8038021**	100 lb. Drum 200 lb. Drum	R-11	R-11	Pure Fluid	-	Alkylbenzene or Mineral Oil	Centrifugal Chillers	EPA Phaseout Product
8038710 **8038705** **8038700**	100 lb. Drum 200lb. Drum 630 lb. Drum	R-123	123	Pure Fluid HCFC	R-11	Alkylbenzene or Mineral Oil	Centrifugal Chillers	-
8038805 **8038800**	30 lb. Cylinder 125 lb. Cylinder	R-134a	134a	Pure Fluid HFC	R-12	Polyol Ester	New Equipment and Retrofits	Close match to R-12
					R-22	Polyol Ester	New Equipment	Lower capacity than R-22 so larger equipment needed.
8038150 **8038155**	25 lb. Cylinder 100 lb. Cylinder	R-410A (125/32)	AZ-20 410A	Azeotropic Mixture HFC	R-22	Polyol Ester	New Equipment. Widely accepted by OEMs.	High efficiency. Equipment redesign required.
8039017 **8039016**	25 lb. Cylinder 115 lb. Cylinder	R-407C	407C	Blend (High Glide) HFC	R-22	Polyol Ester	New Equipment and Retrofits	Expedient alternative to R-22. Close capacity, but lower efficiency.

COMMERCIAL REFRIGERATION

Very Low Temperature Long Term Replacement

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
CALL **CALL**	18 lb. Cylinder 80 lb. Cylinder	R-23	23	Pure Fluid HFC	R-13	Polyol Ester	New Equipment and Retrofits	Capacity between R-13 and R-503. Higher discharge temperature than R-13.
CALL **CALL** **CALL**	10 lb. Cylinder 20 lb. Cylinder 70 lb. Cylinder	R-508B	508B Suva 95	Azeotrope HFC/FC	R-13 R-503	Polyol Ester	New Equipment and Retrofits	Capacity similar to R-503. Lower discharge temperature.

COMMERCIAL REFRIGERATION

Low and Medium Temperature

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
8038255 **8038251** **8038241**	30 lb. Cylinder 50 lb. Cylinder 125 lb. Cylinder	R-502	R-502	Azeotrope	-	Alkylbenzene or Mineral Oil	Low and Medium Temperature Refrigeration	EPA Phaseout Product
8038852 **8038850**	27 lb. Cylinder 110 lb. Cylinder	R-402A 22/125/290	HP80	Blend (Small Glide) HCFC/HFC/ HC	R-502	Alkylbenzene or Polyol Ester	Retrofits	Retrofit R-502 systems with simple change to alkylbenzene oil. Higher discharge pressure than R-502.
8038900	13 lb. Cylinder	R-402B 22/125/290	HP81	Blend (Small Glide) HCFC/HFC/ HC	R-502	Alkylbenzene or Polyol Ester	Ice Machines	Rapid harvest cycle in ice machines due to higher discharge temperature than R-502.
8039019	24 lb. Cylinder	R-408A 22/125 143a	408A	Blend (Small Glide) HCFC/HFC	R-502	Alkylbenzene or Polyol Ester	Retrofits	Retrofit R-502 systems with simple change to alkylbenzene oil. Higher discharge temperature than R-502.
8038160	25 lb. Cylinder	R-422D 134a/125/ 600a	422D	Blend (Moderate Glide) HFC	R-22	Alkylbenzene or Polyol Ester or Mineral Oil	Retrofits Supermarkets Ice Machines	No oil change in retrofit systems in most cases.. Significantly lower discharge temperature than R-22.

COMMERCIAL REFRIGERATION

Low and Medium Temperature Long Term HFC-Based Replacements

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
8038843 **8038840**	25 lb. Cylinder 100 lb. Cylinder	R-507A 125/143a	AZ-50	Azeotrope HFC	R-502 R-22	Polyol Ester	New Equipment and Retrofits	Close match to R-502. Best long-term option. Higher efficiency than 404A and low temperature R-22.
8038832 **8038830**	24 lb. Cylinder 100 lb. Cylinder	R-404A 125/143a 134a	HP62 404A FX-70	Blend (Small Glide) HFC	R-502 R-22	Polyol Ester	New Equipment and Retrofits	Close match to R-502. Higher efficiency than R-22 at low temperature.

COMMERCIAL REFRIGERATION

Medium Temperature

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
8038091 **8038081**	30 lb. Cylinder 145 lb. Cylinder	R-12	R-12	Pure Fluid	—	Alkylbenzene or Mineral Oil	Medium and High Temperature Refrig.	EPA Phaseout Product
8039005 **8039000**	30 lb. Cylinder 125 lb. Cylinder	R-401A 22/152a 124	MP39	Blend (Moderate Glide) HCFC/HFC	R-12	Alkylbenzene, Polyol Ester, or Mineral oil in many cases.	Retrofits	No oil change needed above 20°F (-7°C) evaporator unless extremely long piping.
8039015 **8039012**	30 lb. Cylinder 125 lb. Cylinder	R-401B 22/152a 124	MP66	Blend (Moderate Glide) HCFC/HFC	R-12 R-500	Alkylbenzene, Polyol Ester, or Mineral oil in many cases.	Transport Refrigeration Retrofits Retrofits including air conditioners and dehumidifiers	Close to R-12. Use where evaporator temperature is below -10°F.
8039020 **8039019R**	30 lb. Cylinder 125 lb. Cylinder	R-409A 22/124/ 142b	409A Forane FX-56	Blend (High Glide) HCFC	R-12	Alkylbenzene, Polyol Ester, or Mineral oil in most cases.	Retrofits	No oil change above -20°F (-29°C) evaporator unless extremely long piping.
8039025	25 lb. Cylinder	R-416A 124/134a/ 600	FRIGC R-416A FRIGC FR-12	Blend (SmallGlide) HCFC/HFC/ HC	R-12	Polyol Ester	Retrofits	Lower capacity and pressure than R-134a.

COMMERCIAL REFRIGERATION

Medium Temperature Long Term HFC-Based Replacements

ILLCO #	CONTAINER SIZE	ASHRAE #	TRADE NAME	TYPE	REPLACES	LUBRICANT	APPLICATIONS	COMMENTS
8038805 **8038800**	30 lb. Cylinder 125 lb. Cylinder	R-134a	134a	Pure Fluid HFC	R-12	Polyol Ester	Favored in New Equipment and Retrofits.	Performs well 20°F (-7°C) evaporator or higher.

ILLCO USED REFRIGERANT RECLAIM PROGRAM

ILLCO CARRIES A FULL LINE OF D.O.T. RECOVERY CYLINDERS

8039134 - 30 LB.
8039154 - 50 LB.
8039240 - 240 LB.
8039195 - 1000 LB.

ILLCO'S IN-HOUSE CONSOLIDATION STATION ENABLES US TO EVACUATE AND RETURN YOUR 30 LB. AND 50 LB. RECOVERY TANKS FASTER THAN ANYONE ELSE.

CALL US WITH ANY OF YOUR RECOVERY OR RECLAMATION NEEDS.
THERE ARE NO QUANTITIES TOO LARGE OR TOO SMALL!

THIN PROFILE AIR DEFROST UNIT COOLERS

MODEL TA is a thin unit which will mount in the top of a refrigerator and makes the entire top shelf area usable. The attractive low silhouette makes this reach-in evaporator particularly desirable for display type refrigerators. It can also be used in back bars, under counter cabinets or wherever space is at a premium. Drain fitting at 45° angle so drain can be run through back or bottom of refrigerator. Room for expansion valve inside — out of sight. Compact! Model TA is available with an optional protective coil coating for corrosion protection (use model designation TAK).

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	115/1	LIQUID	SUCTION	DRAIN	L	H	D
7174210	TAK-10AG	1000	120	1	0.8	1/2 FN	3/8 ID	1/2 OD	16-1/2	4-1/2	13-1/2
7174213	TAK-13AG	1300	170	2	1.6	1/2 FN	3/8 ID	1/2 OD	20-1/2	4-1/2	13-1/2
7174218	TAK-17AG	1700	210	2	1.6	1/2 FN	3/8 ID	1/2 OD	24	4-1/2	14-1/2
7174224	TAK-23AG	2300	330	3	2.4	1/2 FN	3/8 ID	1/2 OD	31-5/8	4-1/2	14-1/2
7174230	TAK-30AG	3000	360	3	2.4	1/2 FN	1/2 ID	1/2 OD	40	4-1/2	14-1/2
7174243	TAK-43AG	4300	540	4	3.2	1/2 FN	5/8 ID	1/2 OD	53-3/8	4-1/2	14-1/2

NOTE: TAK models use an externally equalized expansion valve.

THIN PROFILE ELECTRIC DEFROST UNIT COOLERS

MODEL TL low temperature unit cooler has a completely automatic defrost system. Mounted in the top of a refrigerator, its extremely compact cabinet makes it possible to utilize the entire top shelf area for storage. Having a normal operating range of +15°F to –20°F., this unit is ideally suited for such applications as commercial freezers, ice cream boxes, bakery freezers and dual-temp reach-in boxes. Defrosting is accomplished with Larkin's unique electric defrost system. Mechanical contact is provided between the heater elements and the drain pan, insuring a warm pan during the defrost cycle. Sufficient space is provided to mount the expansion valve within the cabinet. Systems for both 115 volt and 208-230 volt operation are available.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	115/1	LIQUID	SUCTION	DRAIN	L	H	D
7174305	TL09AG	900	110	1	0.8	3/8 OD	3/8 ID	1/2 OD	16-1/2	4-1/2	13-1/2
7174310	TL12AG	1200	210	2	1.6	3/8 OD	1/2 ID	1/2 OD	20-1/2	4-1/2	13-1/2
7174315	TL16AG	1600	210	2	1.6	3/8 OD	1/2 ID	1/2 OD	24	4-1/2	14-1/2

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	208-230/1	LIQUID	SUCTION	DRAIN	L	H	D
7174321	TL21BG	2100	240	1	0.5	1/2 FN	1/2 ID	1/2 OD	24	6-3/4	16-1/2

NOTE: TL models use an externally equalized expansion valve.

HIGH PROFILE AIR DEFROST UNIT COOLERS

MODEL C unit coolers are ideal for refrigerated reach-ins. It mounts to the top of the refrigerator and discharges cold air against the back wall. With this air flow pattern, the air is not blasted on the product but is diffused along the back wall and then gently drawn across the product as it returns to the unit; thus, uniform temperatures are maintained throughout the refrigerator. In addition, door sweating and refrigeration loss due to door opening is greatly reduced because the air is not discharged against the doors. Mounting is made easy by means of aluminum hangers that automatically space the unit the correct distance from the back wall. The expansion valve fits inside, out of sight. Model C is available with an optional protective coil coating (designated as model CK) for corrosion protection.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	115/1	LIQUID	SUCTION	DRAIN	L	H	D
7173313	CK-13AG	1300	235	1	1.0	1/2 FN	3/8 ID	1/2 OD	14-1/4	8-7/8	13-3/4
7173317	CK-17AG	1700	250	1	1.0	1/2 FN	3/8 ID	1/2 OD	17-1/4	8-7/8	13-3/4
7173323	CK-23AG	2300	265	1	1.0	1/2 FN	3/8 ID	1/2 OD	22-3/4	8-7/8	13-3/4
7173330	CK-30AG	3000	480	2	2.0	1/2 FN	1/2 ID	1/2 OD	27-3/4	8-7/8	13-3/4
7173343	CK-43AG*	4300	520	2	2.0	1/2 FN	1/2 ID	1/2 OD	38	8-7/8	13-3/4

*This model uses an externally equalized expansion valve.

ILLCO provides design assistance for all **Larkin** systems. Call your local **ILLCO** branch and ask for a **Larkin** specialist. We'll be more than glad to assist you!

V-PROFILE AIR DEFROST UNIT COOLERS

MODEL VA is a deluxe unit designed for use in small reach-ins, back bar and under counter refrigerators, and many other applications where a small, compact unit is required. The thermal expansion valve mounts inside of the unit. The unit can be mounted from the ceiling or off the back or end walls, or can be used in mullion application. VA is available with an optional protective coil coating for corrosion protection (use model designation VAK).

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO QTY.	MOTOR INFO 115/1	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	CONNECTIONS (IN.) DRAIN	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7173108	VAK08AG	800	130	1	0.8	1/2 FN	3/8 ID	1/2 OD	12-1/4	6-7/8	8-1/8
7173112	VAK12AG	1200	265	1	1.6	1/2 FN	3/8 ID	1/2 OD	18	8	8-1/8
7173117	VAK17AG	1700	245	2	1.0	1/2 FN	1/2 ID	1/2 OD	14	9-3/4	10-1/2

STANDARD MULLION UNIT COOLERS

MODEL KMK is ideal for use in under-counter reach-in refrigeration. The thin line design allows the unit to be mounted behind a mullion with sufficient clearance for the installation of tray slides. KMK has a unique fan arrangement allowing air to be drawn into the top of the unit, pulling return air from both sides of the mullion. The versatile design of the compact mullion is also adaptable for mounting on the back wall or ends of a beverage cooler. The finned coil of KMK is protected by special coating as standard.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO QTY.	MOTOR INFO 115/1	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	CONNECTIONS (IN.) DRAIN	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7173217	KMK17AG	1700	170	2	1.6	1/2 FN	3/8 OD	5/8 OD	15-5/8	19-3/4	5-5/8
7173223	KMK23AG	2300	255	3	2.4	1/2 FN	3/8 OD	5/8 OD	22	19-3/4	5-5/8

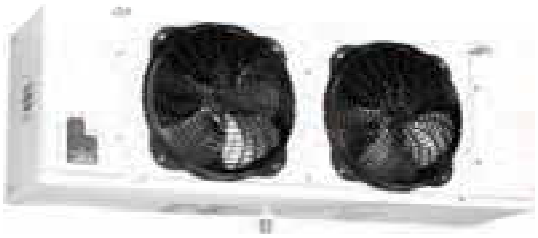
TWIN FLOW UNIT COOLERS

MODEL BTO is a compact two-way design with medium velocity airflow. The unit is mounted flush to the ceiling and draws air in through the fan and discharges out both sides. The air pattern reduces air loss when doors are opened and the medium velocity reduces product drying. Twin Flow units are for temperatures of 35°F. and higher. Box temperatures are kept more constant throughout and fresh products last longer. Seven sizes are available with BTUH from 900 to 5500 at 10° T.D. The BTO is available with an optional coated coil for corrosion protection (use model designation BTOK).

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO QTY.	MOTOR INFO 115/1	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	CONNECTIONS (IN.) DRAIN	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7174513	BTOK13AG	1300	240	2	1.6	1/2 FN	1/2 ID	1/2 OD	19-1/8	5-3/4	16-1/8
7174518	BTOK18AG	1800	255	1	1.0	1/2 FN	1/2 ID	1/2 OD	19-1/8	5-3/4	16-1/8
7174525	BTOK25AG	2500	460	2	2.0	1/2 FN	1/2 ID	1/2 OD	26-1/8	6-3/4	16-1/8

NOTE: BTOK models use an externally equalized expansion valve.

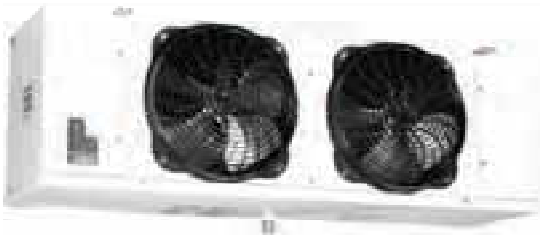
LOW PROFILE AIR DEFROST UNIT COOLERS



MODEL LCA features:
- Air Defrost with shaded pole motors
- More capacities – 5,700, 7,000 and 35,000 BTUH models.
- More Accessible:
  - Electrical and piping on opposite ends.
  - Access provided through large access panels.
- Schrader valve on suction header.
- Extended Warranty for coil construction:
  - 3 years protection against tube sheet leaks.
- Drain Fitting allows removal of drain pan without removal of hardpiping.
- Molded Fan Guard design made of strong plastic material or optional wire fan guard for air diffusion.
- Internally enhanced tubing.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	115/1	LIQUID	SUCTION	DRAIN	L	H	D
7175001	LCA6-40AB	4400	800	1	1.8	1/2 ODF	1/2 ODS	-	29-1/2	14-3/4	14-15/16
7175004	LCA6-51AB	5100	800	1	1.8	1/2 ODF	5/8 ODS	-	29-1/2	14-3/4	14-15/16
7175007	LCA6-62AB	6200	800	1	1.8	1/2 ODF	5/8 ODS	-	29-1/2	14-3/4	14-15/16
7175010	LCA6-72AB	7200	1500	2	3.6	1/2 ODF	5/8 ODS	-	45-1/2	14-3/4	14-15/16
7175013	LCA6-90AB	9000	1500	2	3.6	1/2 ODF	5/8 ODS	-	45-1/2	14-3/4	14-15/16
7175016	LCA6-110AB	11000	1500	2	3.6	1/2 ODF	7/8 ODS	-	45-1/2	14-3/4	14-15/16
7175019	LCA6-135AB	13500	2250	3	5.4	1/2 ODF	5/8 ODS	-	61-1/2	14-3/4	14-15/16
7175023	LCA6-160AB	16000	2250	3	5.4	1/2 ODF	7/8 ODS	-	61-1/2	14-3/4	14-15/16
7175025	LCA6-185AB	18500	3000	4	7.2	1/2 ODF	7/8 ODS	-	77-1/2	14-3/4	14-15/16
7175028	LCA6-215AB	21500	3000	4	7.2	1/2 ODF	7/8 ODS	-	77-1/2	14-3/4	14-15/16
7175031	LCA6-260AB	26000	3750	5	9.0	1/2 ODF	7/8 ODS	-	90-1/2	14-3/4	14-15/16
7175034	LCA6-310AB	31000	4500	6	10.8	1/2 ODF	1-3/8 ODS	-	109-1/2	14-3/4	14-15/16

LOW PROFILE ELECTRIC DEFROST UNIT COOLERS



MODELS LCE (electric defrost) AND LCH (hot gas defrost)
Additional Features for Electric and Hot Gas Defrost Models:
- More Accessable:
  - Defrost heaters on entering air face of the coil.
  - Hot gas loop on bottom of coil, not in drain pan
  - Drain pan heater on bottom of coil, not in drain pan.
- Fixed defrost termination/ fan delay.
- Reduced heater wattage.

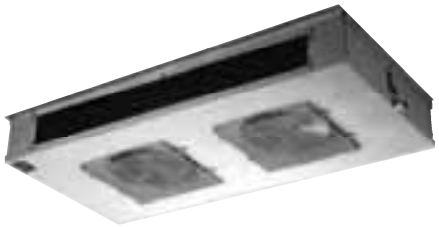
ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	208-230/1	LIQUID	SUCTION	DRAIN	L	H	D
7175101	LCE4-174BB	17400	3750	5	4.0	1/2 ODF	7/8 ODS	-	90-1/2	14-3/4	14-15/16
7175201	LCE6-35BB	3500	700	1	1	1/2 ODF	5/8 ODS	-	29-1/2	14-3/4	14-15/16
7175204	LCE6-43BB	4300	650	1	1	1/2 ODF	5/8 ODS	-	29-1/2	14-3/4	14-15/16
7175207	LCE6-65BB	6500	1400	2	2	1/2 ODF	5/8 ODS	-	45-1/2	14-3/4	14-15/16
7175210	LCE6-76BB	7600	1300	2	2	1/2 ODF	5/8 ODS	-	45-1/2	14-3/4	14-15/16
7175213	LCE6-94BB	9400	1300	2	2	1/2 ODF	7/8 ODS	-	45-1/2	14-3/4	14-15/16
7175216	LCE6-120BB	12000	2100	3	3	1/2 ODF	7/8 ODS	-	61-1/2	14-3/4	14-15/16
7175217	LCE6-140BB	14000	1950	3	3	1/2 ODF	7/8 ODS	-	61-1/2	14-3/4	14-15/16
7175219	LCE6-160BB	16000	2600	4	4	1/2 ODF	7/8 ODS	-	77-1/2	14-3/4	14-15/16
7175220	LCE6-180BB	18000	2600	4	4	1/2 ODF	7/8 ODS	-	93-1/2	14-3/4	14-15/16
7175222	LCE6-200BB	20000	3250	5	5	1/2 ODF	1-3/8 ODS	-	90-1/2	14-3/4	14-15/16
7175225	LCE6-240BB	24000	3900	6	6	1/2 ODF	1-3/8 ODS	-	109-1/2	14-3/4	14-15/16

LOW AIR FLOW ELECTRIC DEFROST UNIT COOLERS

MODEL LWE low air flow evaporators is ideal for floral storage, fresh fruit and vegetables, dough retarding, fresh meat storage and preparations, and many other applications of 28°F and above for model LWE electric defrost models. The low air flow and quiet fans are ideal for work room applications. The generous coil surface combined with close T.D. system balance provides high humidity characteristics to minimize product shrinkage and drying.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO		CONNECTIONS (IN.)			MAX. DIMENSIONS (IN.)		
				QTY.	115/1	LIQUID	SUCTION	DRAIN	L	H	D
7173065	LWE180BC	18000	2130	1	6.3	1-1/8	1-1/8	-	75-1/2	15-1/8	26-5/8

CENTER MOUNT AIR DEFROST UNIT COOLERS



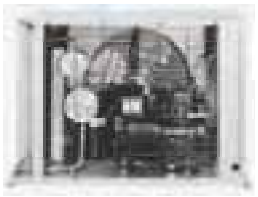
MODEL ACM units are compact, medium velocity coolers designed for use in 35°F and above rooms. The low height gives more head room and allows product to be stacked higher. The center ceiling mount with dual air flow allows shelving and storage of product around all walls. Also equipped with dual drain pans to prevent sweating, the ACM units have a heavy gauge grained aluminum cabinet that cleans easily and looks attractive. The PVC coated fan guards won't rust or rattle. Ease of installation and service are also part of the design. The panels on the ends quickly remove to complete access to refrigerant components and electrical terminal block, without the need to drop the fan panel/drain pan.

ILLCO #	LARKIN #	BTUH 10°F TD	CFM	MOTOR INFO QTY.	MOTOR INFO 115/1	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	CONNECTIONS (IN.) DRAIN	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7171011	ACM-052AE	5200	610	1	2.1	1/2 OD	7/8 OD	3/4 FPT	31-1/2	8-5/8	28-13/16
7171013	ACM-076AE	7600	1300	2	4.2	1/2 OD	7/8 OD	3/4 FPT	53-1/2	8-5/8	28-13/16
7171015	ACM-090AE	9000	1260	2	4.2	1/2 OD	7/8 OD	3/4 FPT	53-1/2	8-5/8	28-13/16
7171017	ACM-108AE	10800	1950	3	6.3	1/2 OD	7/8 OD	3/4 FPT	75-1/2	8-5/8	28-13/16
7171019	ACM-134AE	13400	1890	3	6.3	1/2 OD	7/8 OD	3/4 FPT	75-1/2	8-5/8	28-13/16
7171021	ACM-156AE	15600	1830	3	6.3	1/2 OD	7/8 OD	3/4 FPT	75-1/2	8-5/8	28-13/16

CAPACITY CORRECTION FACTORS FOR ELECTRIC AND HOT GAS DEFROST UNITS

Saturated Suction Temperature °F	+20	-10	-20	-30	-40
Multiply Capacity By	1.15	1.04	1.00	0.90	0.80

INDOOR OR OUTDOOR SEMI-HERMETIC CONDENSING UNITS

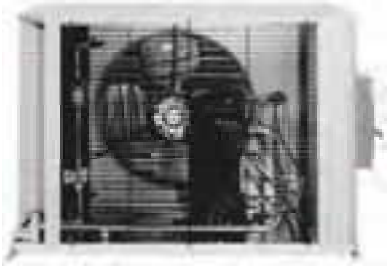


MODEL LS condensing units is ideal for convenience store, restaurant and other commercial applications. The units feature a semi-hermetic refrigeration compressor which is spring mounted with vibration eliminators. Also, these condensing units have an oversized aluminum fin/copper tube condenser that works in high ambients, encapsulated auto-reset high pressure controls to eliminate leaks, prepainted G90 galvanized steel cabinet for superior strength and corrosion protection, and suction and discharge service valves. UL listed for the United States and Canada.

ILLCO #	LARKIN #	ELECTRICAL	COMPRESSOR	REFRIG.	BTUH	MCA	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7176575	LST010M6C*	208/230-3-60	KAR-010E	404A/507	9750	15	3/8 IDS	5/8 IDS	23-3/4	17-1/4	28-1/4
7176585	LST021L6B*	208/230-1-60	EAV-021A	404A/507	11280	20	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176587	LST021L6C*	208/230-3-60	EAV-021A	404A/507	11280	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176595	LST030E6C*	208/230-3-60	LAC-032E	404A/507	16930	15	1/2 IDS	7/8 IDS	37-3/4	19-3/4	28-1/4
7176597	LST030L6C*	208/230-3-60	LAH-032E	404A/507	16930	15	1/2 IDS	7/8 IDS	37-3/4	19-3/4	28-1/4
7176605	LST040L6C**	208/230-3-60	NRD-032E	404A/507	22530	22	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4

*Includes drier, sight glass, shutoff, and timer.
**Includes drier, sight glass, shutoff, timer, and contactor.

INDOOR OR OUTDOOR SCROLL CONDENSING UNITS

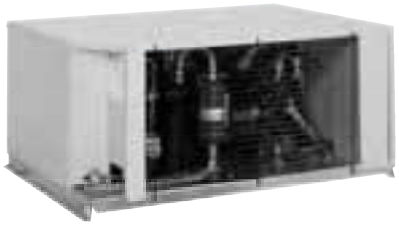


MODEL LZ condensing unit's enhanced grill design gives up to 40% more free-air area than before and its vertical receiver needs less refrigerant to ensure a solid column of liquid reaches the expansion valve. Fan motors and serviceable components are accessible through the front grill for quick service and the sight glass is conveniently placed so that charging is quick, easy and accurate. Thorough cleaning of the coil is easier because the unit's top is one piece and lighter for easy removal. A liquid base valve and suction service tap is placed on the outside of the cabinet for easy pump-downs and quick diagnosis. The footprint is smaller for easy job-site placement. These condensing units utilize the patented Floating Tube condenser that eliminates tube-sheet leaks. This coil design allows Larkin to offer you a 5-year warranty against tube-sheet leaks that includes labor and refrigerant.

ILLCO #	LARKIN #	ELECTRICAL	COMPRESSOR	REFRIG.	BTUH	MCA	CONNECTIONS (IN.) LIQUID	CONNECTIONS (IN.) SUCTION	MAX. DIMENSIONS (IN.) L	MAX. DIMENSIONS (IN.) H	MAX. DIMENSIONS (IN.) D
7176325	LZT035L6C	208/230-3-60	ZF11K4E	404A/507	15860	20	1/2 IDS	7/8 IDS	37-3/4	19-3/4	28-1/4
7176335	LZT045L6C	208/230-3-60	ZF13K4E	404A/507	20410	20	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4
7176345	LZT055L6C	208/230-3-60	ZF15K4E	404A/507	24650	28	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4
7176355	LZT060L6C	208/230-3-60	ZF18K4E	404A/507	28970	30	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4

NOTE: LZT models come with drier, sight glass, and shutoff.

OUTDOOR HERMETIC CONDENSING UNITS



MODEL LH condensing units feature a hermetic refrigeration compressor with oversized condenser. Also, the LH series condensing units have a shut off valve in the discharge line of the hermetic compressor for easier compressor changes. UL listed for the United States and Canada.

EXTENDED TEMP

ILLCO #	LARKIN #	ELECTRICAL	COMPRESSOR	REFRIG.	BTUH	MCA	CONNECTIONS (IN.)		MAX. DIMENSIONS (IN.)		
							LIQUID	SUCTION	L	H	D
7176102	LHT005X6B	208/230-1-60	RS43C2E	404A/507	5100	15	3/8 IDS	1/2 IDS	23-3/4	17-1/4	28-1/4
7176112	LHT008X6B	208/230-1-60	RS55C2E	404A/507	7590	15	3/8 IDS	1/2 IDS	23-3/5	17-1/5	28-1/5
7176114	LHT009X6B	208/230-1-60	RS64C2E	404A/507	8580	15	3/8 IDS	5/8 IDS	23-3/6	17-1/6	28-1/6
7176122	LHT010X6B	208/230-1-60	RS70C1E	404A/507	9110	15	3/8 IDS	5/8 IDS	23-3/7	17-1/7	28-1/7
7176124	LHT010X6C	208/230-3-60	RS70C1E	404A/507	9110	15	3/8 IDS	5/8 IDS	23-3/8	17-1/8	28-1/8
7176132	LHT015X6B	208/230-1-60	CS10K6E	404A/507	13830	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176318	LHT015X6C	208/230-3-60	CS10K6E	404A/507	13830	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176141	LHT020X6B	208/230-1-60	CS12K6E	404A/507	15740	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176320	LHT020X6C	208/230-3-60	CS12K6E	404A/507	15740	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176146	LHT025X6B	208/230-1-60	CS14K6E	404A/507	17190	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176147	LHT025X6C	208/230-3-60	CS14K6E	404A/507	17190	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176161	LHT030X6B	208/230-1-60	CS18K6E	404A/507	27010	21	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176166	LHT030X6C	208/230-3-60	CS18K6E	404A/507	27010	15	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176170	LHT032X6B	208/230-1-60	CS20K6E	404A/507	29540	24	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176171	LHT032X6C	208/230-3-60	CS20K6E	404A/507	29540	20	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176176	LHT040X6C	208/230-3-60	CS27K6E	404A/507	37270	20.7	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4
7176187	LHT050X6C	208/230-3-60	CS33K6E	404A/507	42460	24.5	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4

HIGH /MEDIUM TEMP

ILLCO #	LARKIN #	ELECTRICAL	COMPRESSOR	REFRIG.	BTUH	MCA	CONNECTIONS (IN.)		MAX. DIMENSIONS (IN.)		
							LIQUID	SUCTION	L	H	D
7176100	LHT005H2B	208/230-1-60	ART82C1	22	5960	15	3/8 IDS	1/2 IDS	23-3/4	17-1/4	28-1/4
7176110	LHT008H2B	208/230-1-60	RS64C2	22	8350	15	3/8 IDS	1/2 IDS	23-3/4	17-1/4	28-1/4
7176120	LHT010H2B	208/230-1-60	RS70C1	22	9500	15	3/8 IDS	5/8 IDS	23-3/4	17-1/4	28-1/4
7176130	LHT015H2B	208/230-1-60	CR18KQ	22	12910	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176135	LHT015H2C	208/230-3-60	CR18KQ	22	12910	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176140	LHT020H2B	208/230-1-60	CR24KQ	22	16910	20	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176145	LHT020H2C	208/230-3-60	CR24KQ	22	16910	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176150	LHT029M2C	208/230-3-60	CR37KQ	22	23930	21.8	1/2 IDS	7/8 IDS	37-3/4	19-3/4	28-1/4
7176160	LHT030H2B	208/230-1-60	CR37KQ	22	28090	24.3	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176165	LHT030H2C	208/230-3-60	CR37KQ	22	28090	20	1/2 IDS	7/8 IDS	42-1/2	29-3/4	30-1/4
7176175	LHT040H2C	208/230-3-60	CR53KQ	22	38840	23.9	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4
7176185	LHT050H2C	208/230-3-60	CRN-0500	22	44050	28	1/2 IDS	1-1/8 IDS	42-1/2	29-3/4	30-1/4

LOW TEMP

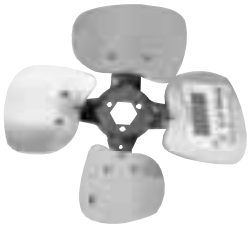
ILLCO #	LARKIN #	ELECTRICAL	COMPRESSOR	REFRIG.	BTUH	MCA	CONNECTIONS (IN.)		MAX. DIMENSIONS (IN.)		
							LIQUID	SUCTION	L	H	D
7176286	LHT011L6B	208/230-1-60	CF04K6E	404A/507	5289	15	3/8 IDS	5/8 IDS	23-3/4	17-1/4	28-1/4
7176290	LHT014L6B	208/230-1-60	CF06K6E	404A/507	7790	15	3/8 IDS	5/8 IDS	23-3/4	17-1/4	28-1/4
7176295	LHT014L6C	208/230-3-60	CF06K6E	404A/507	7790	15	3/8 IDS	5/8 IDS	23-3/4	17-1/4	28-1/4
7176296	LHT019L6B	208/230-1-60	CF06K6E	404A/507	8710	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176298	LHT019L6C	208/230-3-60	CF06K6E	404A/507	8710	15	3/8 IDS	5/8 IDS	37-3/4	17-1/4	28-1/4
7176300	LHT025L6B	208/230-1-60	CF09K6E	404A/507	13150	20	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176305	LHT025L6C	208/230-3-60	CF09K6E	404A/507	13150	15	3/8 IDS	7/8 IDS	37-3/4	17-1/4	28-1/4
7176315	LHT031L6C	208/230-3-60	CF12K6E	404A/507	15909	15	1/2 IDS	7/8 IDS	37-3/4	19-3/4	28-1/4

NOTE: LHT models come with drier, sight glass, and shutoff.

New items are being added to our inventory daily. Please give us a call if you can't find what you are looking for.

LARKIN PARTS

ILLCO stocks a variety of Larkin Parts - including motors, fan blades, and controls.



BEACON® II REFRIGERATION SYSTEM

BEACON® II REFRIGERATION SYSTEM

Beacon® II is the next generation of Larkin's patented pre-assembled, factory installed refrigeration system featuring an integrated microcomputer-based electronic control board. Beacon II offers:

- Complete factory installation, wiring and testing which saves time and money!
- Simple field electrical connections and 24 volt wiring between condensing and evaporator coil.
- Preset factory superheat allowing the system to run more efficiently and reducing future adjustments.
- Monitors and controls box temperature, evaporator superheat, condenser fan cycling, system status and defrost from outside the box.
- Monitor and make system changes remotely via modem and exclusive Beacon Smart II software.
- Data logging capabilities with Smart Controller.

BEACON® IIs SMART DEFROST

Beacon II's Smart Defrost, available only on Beacon II's Smart Controller, enables the Beacon II system to sense frost accumulation and initiates defrost only when it is necessary. Using Smart Controller II, you preset defrost times. At each scheduled defrost time, Smart Defrost checks system performance to see if a defrost is necessary. If not, it simply does not defrost, waiting until the next scheduled defrost time.

BEACON® IIs SMART CONTROLLER™

Beacon II's Smart Controller™ is an optional system monitoring and programming control device. It allows for adjustments to be made at the push of a button from a conveniently mounted location. Smart Controller II also allows you to monitor and make changes to the refrigeration system via modem connection from anywhere in the world. The Beacon II has been updated to allow the user to make even more precise adjustments than the first phase of Beacon's Smart Controller. One Smart Controller can program and control up to four separate condensing units with up to four evaporators on each system. That's more control in your hands!

BEACON® IIs SMART SOFTWARE

Beacon II's Smart Software makes it easy to adjust and monitor one or more refrigeration systems as well as capture minute by minute system conditions. This Windows-based software allows you to connect to the Smart Controller II from anywhere in the world to monitor the systems, make adjustments and log minute by minute system conditions. This data logging capability is critical in the food service industry.

ILLCO carries Beacon II Refrigeration Control Systems.
Call your local **ILLCO** branch and ask for more details.

QUICK SELECTION GUIDE

DIMENSIONS (FT.)			FLOOR SQ. FT.	BTUH LOAD									
				+35°F ROOM USAGE		+30°F ROOM USAGE		0°F ROOM USAGE		-10°F ROOM USAGE		-20°F ROOM USAGE	
L	W	H		AVG.	HEAVY*	AVG.	HEAVY*	AVG.	HEAVY*	AVG.	HEAVY*	AVG.	HEAVY*
6	6	8	36	4750	6389	4488	6037	4583	6505	4929	7041	5274	7577
6	8	8	48	5417	7274	5119	6974	5225	7407	5630	8028	6034	8648
6	10	8	60	6055	8100	5722	7655	5806	8213	6265	8911	6725	9609
8	8	8	64	6188	8291	5848	7835	5934	8410	6405	9127	6876	9844
8	10	8	80	6954	9269	6572	8759	6631	9363	7165	10169	7699	10974
8	12	8	96	7669	10174	7247	9614	7273	10234	7867	11123	8461	12011
8	14	8	112	8366	1045	7905	10437	7922	11392	8575	12059	9227	13026
8	16	8	128	9051	11888	8553	11234	8528	11890	9237	12933	9946	13976
8	18	8	144	9748	12732	9212	12032	9169	12732	9936	13852	10702	14972
8	20	8	160	10419	13548	9846	12803	9755	13490	10576	14682	11397	15874
8	22	8	176	11540	14807	10905	13992	10817	14715	11692	15977	12567	17239
8	24	8	192	12224	15622	11552	14763	11386	15439	12314	16769	13242	18099
8	26	8	208	12874	16398	12166	15496	11976	16176	12955	17573	13935	18970
8	28	8	224	13519	17163	12775	16219	12530	16873	13562	18336	14594	19799
8	30	8	240	14187	17947	13407	16960	13108	17587	14191	19115	15274	20642
8	32	8	256	14824	18694	14009	17666	13653	18264	14786	19855	15920	21446
10	10	8	100	7789	10339	7361	9770	7386	10401	7990	11304	8594	12208
10	12	8	120	8626	11385	8152	10759	8138	11405	8809	12401	9481	13397
10	14	8	140	9439	12384	8920	11703	8887	12405	9626	13494	10365	14581
10	16	8	160	10250	13379	9686	12643	9577	13311	10379	14484	11182	15658
10	18	8	180	11049	14349	10441	13560	10279	14216	11144	15472	12009	16728
10	20	8	200	11838	15299	11187	14458	10942	14070	11868	16405	12794	17741
10	24	8	240	13391	17180	12654	16207	12751	17231	13796	18721	14842	20211
10	28	8	280	14891	18922	14072	17881	14043	18844	15205	20482	16367	22120
12	12	8	144	10038	13021	9486	12305	8991	12553	9739	13655	10486	14756
12	14	8	168	10956	14155	10353	13376	10235	14052	11055	15251	11875	16450
12	16	8	192	11886	15284	11232	1443	11029	15082	11919	16375	12810	17667
12	18	8	216	12775	16359	12072	15459	11807	16080	12767	17464	13726	18847
12	20	8	240	13681	17440	12928	16481	12573	17052	13599	18524	14626	19995
12	22	8	264	14549	18474	13749	17458	13299	17974	14392	19541	15485	21088
14	14	8	196	11993	15423	11333	14575	11126	15216	12024	16521	12923	17826
14	16	8	224	13013	16656	12297	15740	11995	16338	12971	17745	13946	19152
14	20	8	280	15011	19042	14185	17795	13687	18487	14811	20088	15935	21688
14	24	8	336	16969	21347	16036	21073	15330	20539	16598	22324	17866	24110
16	16	8	256	14148	18019	13370	17028	12939	17550	13998	19067	15056	20583
16	20	8	320	16394	20631	15450	19496	14777	19873	15996	21598	17215	23323
16	24	8	374	18506	23157	17488	21883	18260	22093	17938	24017	19313	25941
18	18	8	324	16476	20782	15570	19639	14864	19989	16090	21724	17317	23460
18	20	8	360	18128	22644	17131	21398	16305	21678	17617	23523	18930	25369
18	24	8	432	20484	2539	19357	23993	18260	24090	19739	26149	21219	28208
20	20	8	400	19470	24145	18340	22817	17386	23019	18790	24982	20194	26945
20	24	8	480	21988	27132	20779	25640	19453	25566	21036	27755	22619	29945
20	28	8	560	24963	30480	23590	28804	21963	28514	23721	30922	25479	33330
20	32	8	640	27480	33340	25969	31506	23954	30909	25884	33529	27813	36149
20	36	8	720	29946	36127	28299	34140	25919	33251	28017	36077	30115	38903
20	40	8	800	32420	38904	30637	36764	27888	35575	30153	38603	32518	41631
24	40	8	960	28694	45735	36565	43878	34681	43023	37368	46538	39939	49937
28	40	8	1120	43183	50733	40808	48970	38123	47062	41095	50921	43950	54664
32	40	8	1280	48550	56318	45880	55056	42894	51900	46146	56580	49282	60656
36	40	8	1440	54344	62804	51355	61626	46254	56259	49872	60781	53194	65186
40	40	8	1600	58738	67611	55507	66608	49583	60073	53385	64916	57070	69642

* Heavy usage is defined as two times the average air change. Average air changes determined by ASHRAE on box size for 24 hour period.

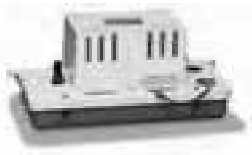
Larger capacity **Larkin** evaporators and condensers are available through **ILLCO**. Contact your local **ILLCO** branch for sizing information and ordering details.

1-ABS CONDENSATE PUMP

Shallow pan automatic condensate removal pump that features an “on” level in 1" of water and “off” level in 1/2" of water. The pump is permanently lubricated and designed to maximize heat dissipation. This model is ideal for in-pan placement for condensate removal.

ILLCO #	LITTLE GIANT #	DISCHARGE	HP	VOLTS	FREQ.	AMPS	WATTS	GPH @ 5' HEAD	MAX PSI
6120200	1-ABS	1/4" MNPT	1/150	115	60	1.1	70	145	4.3

VCC SERIES CONDENSATE PUMPS



The VCC Series is a low profile compact size for applications with limited space. The reservoir has a 3/10 gallon capacity. Pumps feature a vertical-type pump with stainless steel motor shaft, rust proof, high impact ABS tank and motor cover. Discharge is a 3/8" O.D.barbed tubing adapter/check valve. Pump features a safety switch that can be connected to shut down the air conditioner condenser or wired to an alarm to warn of possible tank overflow. Pump is rated for high-efficiency gas furnace applications that produce an acidic condensate. Thermally protected motor is UL and CSA listed.

ILLCO #	LITTLE GIANT #	DISCHARGE	HP	VOLTS	AMPS	WATTS	TANK SIZE	GPH @ 5' HEAD	MAX PSI
6120218	VCC-20ULS	3/8" OD Barb	1/30	115	1.5	93	28 OZ.	70	8.7

VCMA SERIES CONDENSATE PUMPS

The VCMA Series is a fully automatic condensate removal pump with 1/2 gallon capacity. The series features a vertical-type pump with stainless steel motor shaft, rust proof, high-impact ABS tank and motor cover, 3 drain holes, removable 3/8" O.D. barbed check valve. ULS models include a safety switch that can be connected to shut down the air conditioner condenser or wired to an alarm to warn of possible tank overflow. Pump is rated for high-efficiency gas furnace applications that produce an acidic condensate. Thermally protected motor is UL and CSA listed.

ILLCO #	LITTLE GIANT #	DISCHARGE	HP	VOLTS	AMPS	WATTS	TANK SIZE	GPH @ 5' HEAD	MAX PSI
6120215	VCMA-15ULS	3/8" OD Barb	1/60	115	1	60	1/2 GAL.	50	6.5
6120220	VCMA-20ULS	3/8" OD Barb	1/30	115	1.5	93	1/2 GAL.	70	8.7
6120221	VCMA-20ULS	3/8" OD Barb	1/30	230	0.5	75	1/2 GAL.	70	7.4

ACCESSORIES

ILLCO #	LITTLE GIANT #	FOR USE WITH	DESCRIPTION
6120205	TKT	1-ABS	Nylon Tank, Check Valve, and 20' of 1/4" I.D. Tubing
6129102	CV-2	1-ABS	Check Valve 1/4FPT X 1/4COMP
6129108	CV-14	VCC, VCMA	Check Valve 1/4MPTX3/8COMP
6129135	CV-35	VCL-45ULS	Check Valve 3/8OD COMP

Can’t find what you’re looking for in this catalog? Call any one of our **8 locations** and one of our knowledgeable employees will be happy to assist you.

COPELAWELD PRODUCT NOMENCLATURE

1 Compressor Family Series
Either a number or a letter established for each product model

2

Code	Description
E	High Efficiency
R	High Temperature
T	Two Speed

5-6-7-8 Compressor Motor Rating

HP	Code
1-1/4	0125
1-1/2	0150
1-3/4	0175
2	0200
2-1/4	0225
2-3/4	0275
3	0300
3-1/2	0350
4	0400
4-1/2	0450
5	0500
7-1/2	0750
9	0900
10	1000
12	1200

10 Compressor Motor Protection

Code	Type Protection
S	Internal Thermal Protection-Electronic Sensors; and Control Module External Use With Contactor
F	Internal Inherent Protection-One Protector (Line Break)

11 Electrical Codes

60 Hz	Code
208/230-3	C
460-3	D
575-3	E
265-1	J
208/230-1	V
200/230-3	5

X X X X – X X X X – X X X – X X X

4 Model Variation
A number only, assigned to indicate different model types within any one family series

3 Displacement
A letter only, arbitrarily assigned for each different displacement within one family series

9 Compressor Motor Types

Phase	Description	Code
1	Capacitor Run-Capacitor Start	C
1	Capacitor Run-Permanent Split Capacitor	P
3	Three Phase	T

12-13-14 Bill Of Material Product Variations

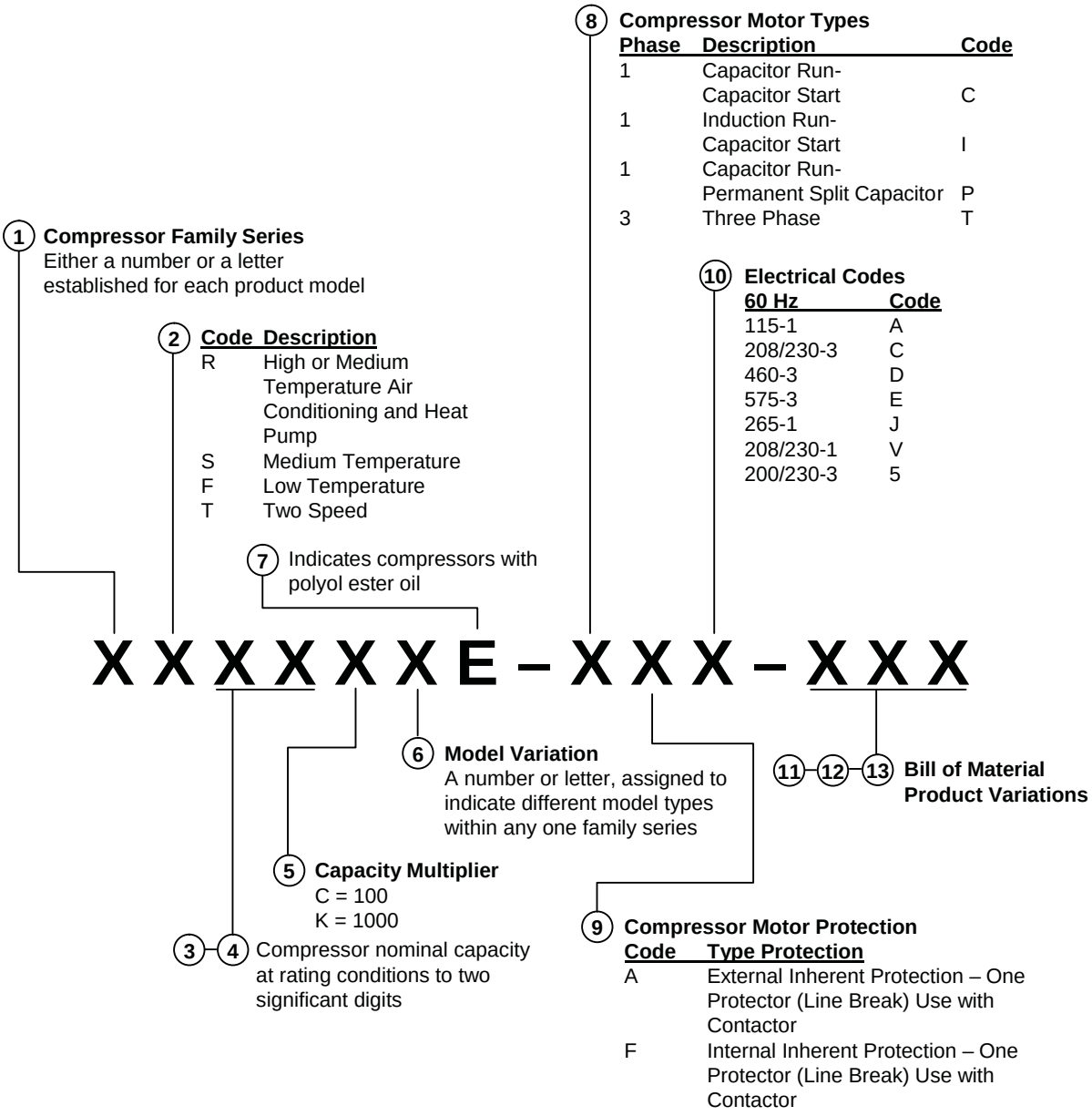
BILL OF MATERIALS DEFINITIONS (B.O.M.)

The First Digit - _XX
- 9- Wholesaler Service Compressors.

The Second Digit - X_X
- 0- Sweat Connections.
- 3- Sweat Connections, no electrical components, usually Scroll and some CR's.
- 5- Rotalock Connections or a valve welded on the suction side. Exception, some Scroll compressors are sweat.
- 7- Sweat Connections with terminal flag kit, no electrical components. CR's primarily.

The Third Digit - XX_
- 0- No electrical components with the compressor.
- 1-3- CC heater voltage variation.
- 8- Electrical components mounted.
- 9- Electrical components remote, in the box with the compressor.

COPELAWELD HFC PRODUCT NOMENCLATURE



COPELAWELD SERVICE COMPRESSORS

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	95°F

COPELAWELD HIGH TEMPERATURE

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2820330	ARB13C3E-SAA-901	134A	HT	1350	5.3	115	60	1	10.5	6.4	7.0	6.5	4.0	5/16 ST	1/4 ST
2820080	ARB17C3E-IAA-901	134A	HT	1740	5.0	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820342	ARE25C3E-SAA-901	134A	HT	2520	6.0	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820340	ARE25C3-SAA-901	12	HT	2760	7.3	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820353	ARE27C3E-IAA-959	134A	HT	2760	6.4	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 RK	1/4 ST
2820350	ARE27C3-IAA-959	12	HT	3140	7.1	115	60	1	10.5	6.0	7.6	6.5	4.0	5/16 RK	1/4 ST
2820351	ARE27C3-SAA-901	12	HT	3140	7.1	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820355	ARE36C3-IAA-901	22	HT	3680	6.3	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820368	ARE37C3E-IAA-901	134A	HT	3730	6.1	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820185	ARE37C3E-IAA-902	134A	HT	3730	6.1	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820367	ARE37C3E-IAA-959	134A	HT	3730	6.1	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 RK	1/4 ST
2820189	ARE41C3E-IAA-959	134A	HT	3950	6.0	115	60	1	10.5	6.4	7.9	6.5	4.0	5/16 RK	1/4 ST
2820375	ARE43C3-IAA-901	22	HT	4080	6.0	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820365	ARE37C3-IAA-901	12	HT	4150	6.6	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820366	ARE37C3-IAA-959	12	HT	4150	6.6	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 RK	1/4 ST
2820376	ARE47C3-IAA-959	22	HT	4570	5.9	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 RK	1/4 ST
2820312	ART51C1E-IAA-959	134A	HT	5050	6.0	115	60	1	11.4	6.6	7.9	8.0	4.8	3/8 RK	1/4 ST
2820310	ART51C1-IAA-901	12	HT	5644	7.0	115	60	1	11.4	6.6	8.2	8.0	4.8	3/8 ST	1/4 ST
2820315	ART62C1-IAA-959	12	HT	5709	6.4	115	60	1	11.4	6.6	8.7	8.0	4.8	3/8 RK	1/4 ST
2820378	ARE59C3-CAV-959	22	HT	5750	6.8	208/230	60	1	10.5	6.4	8.1	6.5	4.0	5/16 RK	1/4 ST
2820377	ARE59C3-CAA-901	22	HT	5780	6.7	115	60	1	10.5	6.4	8.1	6.5	4.0	5/16 ST	1/4 ST
2820200	ART64C1E-IAA-902	134A	HT	6400	6.1	115	60	1	11.4	6.6	8.7	8.0	4.8	3/8 ST	1/4 ST
2820201	ART64C1E-IAA-959	134A	HT	6400	6.1	115	60	1	11.4	6.6	8.7	8.0	4.8	3/8 RK	1/4 ST
2820325	ART69C1-IAA-901	22	HT	6900	7.6	115	60	1	9.8	6.8	8.8	8.0	4.8	3/8 ST	1/4 ST
2820326	ART69C1-IAA-959	22	HT	6900	7.6	115	60	1	9.8	6.8	8.8	8.0	4.8	3/8 RK	1/4 ST
2820765	RR81C1E-IAA-958	134A	HT	8070	6.6	115	60	1	11.1	6.6	11.3	8.0	4.8	1/2 RK	3/8 ST
2820766	RR81C2E-IAV-959	134A	HT	8070	6.6	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820858	RS47C2-IAA-959	22	HT	8620	6.9	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820860	RS47C2-IAV-959	22	HT	8620	6.9	208/230	60	1	9.4	6.6	11.1	8.0	4.8	3/8 RK	1/4 ST
2820762	RR10K2E-CAV-959	134A	HT	10000	7.3	208/230	60	1	11.1	6.6	11.6	8.0	4.8	1/2 RK	3/8 ST
2820884	RS64C2-PAA-959	22	HT	11000	6.8	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820882	RS64C2-CAV-900	22	HT	11000	6.8	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 ST	3/8 ST
2822210	CS10K6E-TF5-970	134A	HT	11300	9.5	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822200	CS10K6E-PFV-970	134A	HT	11600	8.9	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2820763	RR12K1-PFV-900	22	HT	12300	9.6	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 ST	5/16 ST
2820888	RS70C1-TFC-950	22	HT	12400	9.1	208/230	60	3	11.1	6.6	11.1	8.0	4.8	1/2 RK	3/8 ST
2814270	RS70C1-PFV-900	22	HT	12500	8.7	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 ST	3/8 ST
2820280	ARJ11K1-CAV-901	12	HT	13528	9.2	208/230	60	1	9.4	6.7	11.0	8.0	4.8	1 RK	5/16 ST
2822225	CS12K6E-TF5-970	134A	HT	13600	9.5	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822220	CS12K6E-PFV-970	134A	HT	13800	9.4	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2814020	RR14K1-PFV-900	22	HT	14200	8.6	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 ST	3/8 ST
2814022	RR14K1-PFV-959	22	HT	14200	8.6	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 RK	3/8 ST
2822230	CS14K6E-TF5-970	134A	HT	16000	9.6	200/230	60	3	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2814025	RR16K1-PFV-900	22	HT	16050	8.8	208/230	60	1	11.1	6.6	11.4	8.0	4.8	1/2 ST	3/8 ST
2822228	CS14K6E-PFV-970	134A	HT	16300	9.5	208/230	60	1	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2814035	RR17K1-TFC-950	22	HT	17000	8.8	208/230	60	3	11.1	6.6	11.1	8.0	4.8	1/2 RK	3/8 ST
2810570	CR18KQ-PFV-980WB	22	HT	17100	9.3	208/230	60	1	9.3	8.9	13.3	7.5	7.5	5/8 ST	3/8 ST
2814030	RR17K1-PFV-900	22	HT	17100	8.7	208/230	60	1	11.1	6.6	11.6	8.0	4.8	1/2 ST	3/8 ST
2822240	CS18K6E-TFD-970	134A	HT	20400	9.9	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822245	CS18K6E-TF5-970	134A	HT	20400	9.9	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822235	CS18K6E-PFV-970	134A	HT	20600	9.6	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2810590	CR24KQ-PFV-980WB	22	HT	22300	9.4	208/230	60	1	9.3	8.9	13.2	7.5	7.5	5/8 ST	3/8 ST
2822255	CS20K6E-TF5-970	134A	HT	22700	9.9	200/230	60	3	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822250	CS20K6E-PFV-970	134A	HT	23300	9.7	208/230	60	1	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2810640	CR34KQ-TF5-980WB	22	HT	29500	9.2	200/230	60	3	9.3	9.3	13.8	7.5	7.5	3/4 ST	3/8 ST
2822270	CS27K3E-TF5-970	134A	HT	29700	9.2	200/230	60	3	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822265	CS27K3E-PFV-970	134A	HT	30100	8.9	208/230	60	1	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2810635	CR34KQ-PFV-980WB	22	HT	31000	9.5	208/230	60	1	9.3	9.3	13.4	7.5	7.5	3/4 ST	3/8 ST
2810655	CR37KQ-TFD-980WB	22	HT	33600	9.6	460	60	3	9.3	9.3	14.3	7.5	7.5	3/4 ST	3/8 ST
2810660	CR37KQ-TF5-980WB	22	HT	33600	9.9	200/230	60	3	9.3	9.3	14.3	7.5	7.5	3/4 ST	3/8 ST
2810650	CR37KQ-PFV-980WB	22	HT	33969	9.4	208/230	60	1	9.3	9.3	13.6	7.5	7.5	3/4 ST	3/8 ST
2810680	CR41KQ-TF5-980WB	22	HT	37400	9.4	200/230	60	3	9.3	9.3	14.6	7.5	7.5	3/4 ST	3/8 ST
2810670	CR41KQ-PFV-980WB	22	HT	37700	9.4	208/230	60	1	9.3	9.3	13.9	7.5	7.5	3/4 ST	3/8 ST
2810675	CR41KQ-TFD-980WB	22	HT	37800	9.5	460	60	3	9.3	9.3	14.6	7.5	7.5	3/4 ST	3/8 ST
2810395	CRP5-0450-PFV-970	22	HT	54400	9.4	208/230	60	1	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810405	CRP5-0450-TF5-970	22	HT	54600	9.5	200/230	60	3	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810400	CRP5-0450-TFD-970	22	HT	54600	9.5	460	60	3	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810410	CRN5-0500-PFV-970	22	HT	58400	9.3	208/230	60	1	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST
2810420	CRN5-0500-TF5-970	22	HT	58500	9.3	200/230	60	3	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST
2810415	CRN5-0500-TFD-970	22	HT	58500	9.3	460	60	3	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST

CONDITIONS - MODEL A, J			
EVAP	COND	RETURN GAS	LIQUID
-10°F	120°F	40°F	120°F

CONDITIONS - MODEL C, R			
EVAP	COND	RETURN GAS	LIQUID
20°F	120°F	40°F	120°F

COPELAWELD
EXTENDED MEDIUM TEMPERATURE

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2820210	AFB05C3E-IAA-901	134A	EA	500	2.5	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820215	AFE07C3E-IAA-901	134A	EA	710	2.8	115	60	1	10.5	6.4	7.9	6.5	4.0	5/16 ST	1/4 ST
2820218	AFE10C3E-IAA-901	134A	EA	940	3.1	115	60	1	10.5	6.4	7.9	6.5	4.0	5/16 ST	1/4 ST
2820229	AFT12C1-IAA-901	134A	EA	1240	3.0	115	60	1	11.4	6.6	7.9	8.0	4.8	3/8 ST	1/4 ST
2820230	AFT12C1-IAA-959	134A	EA	1240	3.0	115	60	1	11.4	6.6	7.9	8.0	4.8	3/8 RK	1/4 ST
2820220	AFE13C3E-IAA-901	404A	EA	1450	2.8	115	60	1	10.5	6.4	8.1	6.5	4.0	5/16 ST	1/4 ST
2820736	RF18C2E-IAA-959	134A	EM	1870	3.1	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820105	AF22C1E-IAA-958	404A	EA	2110	3.2	115	60	1	11.4	6.7	8.7	7.0	4.5	3/8 RK	1/4 ST
2820240	AFT22C1E-IAA-901	404A	EA	2160	2.8	115	60	1	9.8	6.8	8.7	8.0	4.8	3/8 ST	1/4 ST
2820857	RS43C2E-CAA-908	404A	EM	4170	4.4	115	60	1	11.1	6.6	10.3	8.0	4.8	1/2 ST	3/8 ST
2820855	RS43C2E-IAA-959	404A	EM	4170	4.4	115	60	1	11.1	6.6	10.3	8.0	4.8	1/2 RK	3/8 ST
2820856	RS43C1E-IAV-958	404A	EM	4170	4.4	208/230	60	1	11.1	6.6	11.3	8.0	4.8	1/2 RK	3/8 ST
2820868	RS55C2E-CAA-908	404A	EM	5190	4.5	115	60	1	11.1	6.6	10.3	8.0	4.8	1/2 ST	3/8 ST
2820870	RS55C2E-CAV-908	404A	EM	5190	4.5	208/230	60	1	11.1	6.6	10.3	8.0	4.8	1/2 ST	3/8 ST
2820875	RS64C2E-CAA-959	404A	EM	6450	4.4	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820886	RS64C2E-PAA-908	404A	EM	6450	4.4	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 ST	3/8 ST
2820880	RS64C2E-IAV-959	404A	EM	6450	4.4	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 ST	3/8 ST
2820892	RS70C1E-TFC-900	404A	EM	6800	5.6	208/230	60	3	11.1	6.6	11.1	8.0	4.8	1/2 ST	3/8 ST
2820890	RS70C1E-PFV-909	404A	EM	6980	5.6	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 ST	3/8 ST
2820894	RS80C2E-CAA-908	404A	EM	8000	4.6	115	60	1	11.1	6.6	11.1	8.0	4.8	1/2 ST	3/8 ST
2820895	RS80C2E-CAV-959	404A	EM	8410	5.0	208/230	60	1	11.1	6.6	11.1	8.0	4.8	1/2 RK	3/8 ST
2820920	RS97C2E-TFC-959	404A	EM	9400	5.0	208/230	60	3	11.1	6.6	11.1	8.0	4.8	1/2 RK	3/8 ST
2820910	RS97C1E-CAA-959	404A	EM	9590	4.9	115	60	1	11.1	6.6	10.8	8.0	4.8	1/2 RK	3/8 ST
2820915	RS97C2E-CAV-959	404A	EM	9590	4.9	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2822210	CS10K6E-TF5-970	404A	EM	9940	6.2	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822200	CS10K6E-PFV-970	404A	EM	10100	6.1	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822200	CS10K6E-PFV-970	507	EM	10400	6.1	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822225	CS12K6E-TF5-970	404A	EM	11800	6.3	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822220	CS12K6E-PFV-970	404A	EM	12000	6.2	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822225	CS12K6E-TF5-970	507	EM	12100	6.4	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822220	CS12K6E-PFV-970	507	EM	12400	6.3	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822230	CS14K6E-TF5-970	404A	EM	13900	6.3	200/230	60	3	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822228	CS14K6E-PFV-970	404A	EM	14100	6.2	208/230	60	1	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822230	CS14K6E-TF5-970	507	EM	14300	6.4	200/230	60	3	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822228	CS14K6E-PFV-970	507	EM	14500	6.3	208/230	60	1	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822240	CS18K6E-TFD-970	404A	EM	17800	6.6	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822245	CS18K6E-TF5-970	404A	EM	17800	6.6	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822235	CS18K6E-PFV-970	404A	EM	18100	6.5	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822240	CS18K6E-TFD-970	507	EM	18300	6.7	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822245	CS18K6E-TF5-970	507	EM	18300	6.7	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822235	CS18K6E-PFV-970	507	EM	18600	6.6	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822255	CS20K6E-TF5-970	404A	EM	19800	6.6	200/230	60	3	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822250	CS20K6E-PFV-970	404A	EM	20000	6.4	208/230	60	1	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822255	CS20K6E-TF5-970	507	EM	20200	6.5	200/230	60	3	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822250	CS20K6E-PFV-970	507	EM	20600	6.5	208/230	60	1	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822270	CS27K3E-TF5-970	404A	EM	26500	6.1	200/230	60	3	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822265	CS27K3E-PFV-970	404A	EM	26600	6.0	208/230	60	1	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822265	CS27K3E-PFV-970	507	EM	27300	6.1	208/230	60	1	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822275	CS33K3E-TFC-970	404A	EM	31100	6.1	208/230	60	3	9.4	9.3	15.3	7.5	7.5	7/8 ST	1/2 ST

COPELAWELD APPLICATION ABBREVIATIONS	
EA	Extended Medium Temperature, A-Line
EM	Extended Medium Temperature
HT	High Temp
LT	Low Temp
MT	Medium Temp
AC	Air Conditioning

CONNECTION TYPE ABBREVIATIONS	
SW	Sweat
FL	Flare
ST	Stub
RK	Rotalock
FG	Flange

COPELAWELD MEDIUM TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
20°F	120°F	40°F	120°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2820090	ASB12C3E-IAA-901	404A	MT	1280	3.6	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820092	ASB14C3E-IAA-901	404A	MT	1530	3.3	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820355	ARE36C3-IAA-901	22	MT	2060	4.6	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820385	ASE24C3E-IAA-901	404A	MT	2290	4.1	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820375	ARE43C3-IAA-901	22	MT	2410	4.7	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820378	ARE59C3-CAV-959	22	MT	3290	5.0	208/230	60	1	10.5	6.4	8.1	6.5	4.0	5/16 RK	1/4 ST
2820390	ASE32C3E-CAA-901	404A	MT	3330	4.5	115	60	1	10.5	6.4	8.1	6.5	4.0	5/16 ST	1/4 ST
2820325	ART69C1-IAA-901	22	MT	3380	5.9	115	60	1	9.8	6.8	8.8	8.0	4.8	3/8 ST	1/4 ST
2820326	ART69C1-IAA-959	22	MT	3380	5.9	115	60	1	9.8	6.8	8.8	8.0	4.8	3/8 RK	1/4 ST
2820377	ARE59C3-CAA-901	22	MT	3390	5.3	115	60	1	10.5	6.4	8.1	6.5	4.0	5/16 ST	1/4 ST
2820850	RS40C2E-IAA-959	134A	MT	3990	4.8	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820853	RS40C2-IAA-959	12	MT	4035	4.5	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820858	RS47C2-IAA-959	22	MT	4770	5.1	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820860	RS47C2-IAV-959	22	MT	4770	5.1	208/230	60	1	9.4	6.6	11.1	8.0	4.8	3/8 RK	1/4 ST
2820863	RS54C2E-IAA-959	134A	MT	5400	5.1	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820865	RS54C2E-IAV-959	134A	MT	5400	5.1	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820882	RS64C2-CAV-900	22	MT	6390	5.0	208/230	60	1	11.1	6.6	10.6	8.0	4.8	1/2 ST	3/8 ST
2814030	RR17K1-PFV-900	22	MT	9780	6.5	208/230	60	1	11.1	6.6	11.6	8.0	4.8	1/2 ST	3/8 ST
2822200	CS10K6E-PFV-970	404A	MT	10100	6.1	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822210	CS10K6E-TF5-970	507	MT	10300	6.1	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822210	CS10K6E-TF5-970	22	MT	10600	7.1	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822200	CS10K6E-PFV-970	22	MT	10600	7.1	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822225	CS12K6E-TF5-970	22	MT	12100	7.2	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822225	CS12K6E-TF5-970	507	MT	12100	6.4	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822220	CS12K6E-PFV-970	22	MT	12200	7.0	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822220	CS12K6E-PFV-970	507	MT	12300	6.3	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2822230	CS14K6E-TF5-970	22	MT	13900	7.4	200/230	60	3	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822230	CS14K6E-TF5-970	507	MT	14300	6.4	200/230	60	3	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822228	CS14K6E-PFV-970	22	MT	14300	5.5	208/230	60	1	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822228	CS14K6E-PFV-970	507	MT	14500	6.3	208/230	60	1	10.3	9.1	13.4	7.5	7.5	3/4 ST	3/8 ST
2822240	CS18K6E-TFD-970	404A	MT	17800	6.6	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822240	CS18K6E-TFD-970	22	MT	18300	7.5	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822240	CS18K6E-TFD-970	507	MT	18300	6.7	460	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822245	CS18K6E-TF5-970	22	MT	18300	7.5	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822245	CS18K6E-TF5-970	507	MT	18300	6.7	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822235	CS18K6E-PFV-970	22	MT	18600	7.4	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822235	CS18K6E-PFV-970	507	MT	18700	6.6	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	3/8 ST
2822255	CS20K6E-TF5-970	507	MT	20200	6.6	200/230	60	3	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822255	CS20K6E-TF5-970	22	MT	20300	7.5	200/230	60	3	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822250	CS20K6E-PFV-970	22	MT	20600	7.4	208/230	60	1	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822250	CS20K6E-PFV-970	507	MT	20600	6.5	208/230	60	1	10.3	9.1	14.1	7.5	7.5	3/4 ST	1/2 ST
2822270	CS27K3E-TF5-970	22	MT	26500	7.2	200/230	60	3	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822270	CS27K3E-TF5-970	507	MT	26800	6.1	200/230	60	3	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822265	CS27K3E-PFV-970	507	MT	27400	6.1	208/230	60	1	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST
2822265	CS27K3E-PFV-970	22	MT	27500	7.0	208/230	60	1	9.4	9.3	15.1	7.5	7.5	3/4 ST	1/2 ST

Can't find a compressor that you're looking for in this catalog?
Call any one of our eight branches and ask to speak to a
COPELAND PRODUCT SPECIALIST.
They'll be glad to answer any Copeland questions that you may have!

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
-10°F	120°F	40°F	120°F

CONDITIONS - R-12			
EVAP	COND	RETURN GAS	LIQUID
-10°F	130°F	90°F	90°F

COPELAWELD LOW TEMPERATURE

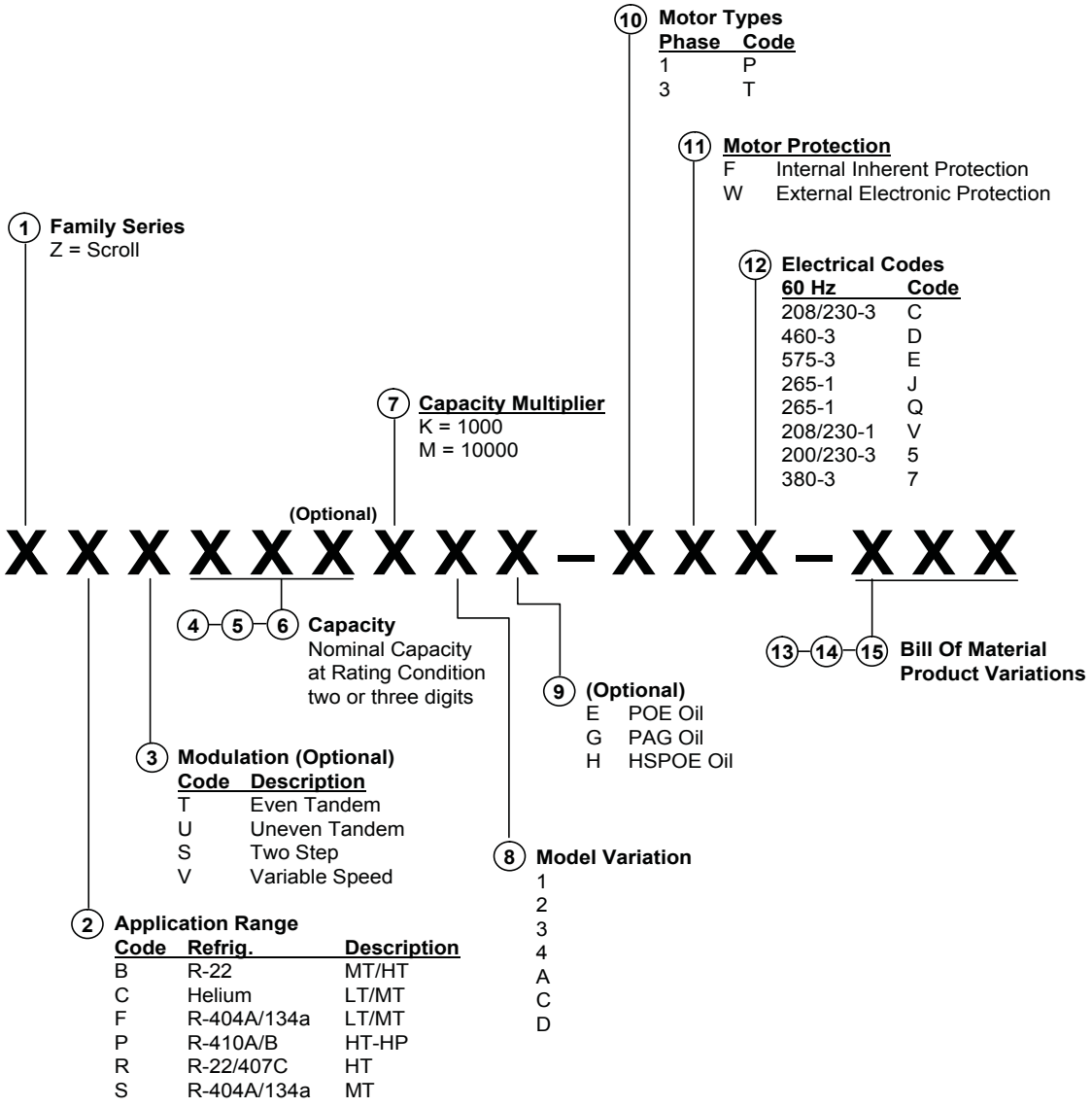
ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2820210	AFB05C3E-IAA-901	134A	LT	500	2.5	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820340	ARE25C3-SAA-901	12	LT	700	2.8	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820215	AFE07C3E-IAA-901	134A	LT	710	2.8	115	60	1	10.5	6.4	7.9	6.5	4.0	5/16 ST	1/4 ST
2820218	AFE10C3E-IAA-901	134A	LT	940	3.1	115	60	1	10.5	6.4	7.9	6.5	4.0	5/16 ST	1/4 ST
2820365	ARE37C3-IAA-901	12	LT	1100	3.5	115	60	1	10.5	6.4	7.4	6.5	4.0	5/16 ST	1/4 ST
2820229	AFT12C1-IAA-901	134A	LT	1240	2.8	115	60	1	11.4	6.6	7.9	8.0	4.8	3/8 ST	1/4 ST
2820230	AFT12C1-IAA-959	134A	LT	1240	2.8	115	60	1	11.4	6.6	7.9	8.0	4.8	3/8 RK	1/4 ST
2820220	AFE13C3E-IAA-901	404A	LT	1440	2.9	115	60	1	10.5	6.4	8.1	6.5	4.0	5/16 ST	1/4 ST
2820736	RF18C2E-IAA-959	134A	LT	1870	3.1	115	60	1	11.1	6.6	10.6	8.0	4.8	1/2 RK	3/8 ST
2820240	AFT22C1E-IAA-901	404A	LT	2150	3.0	115	60	1	9.8	6.8	8.7	8.0	4.8	3/8 ST	1/4 ST
2820070	AFJ23C1-IAA-901	12	LT	2407	3.9	115	60	1	9.4	6.7	11.0	8.0	4.8	1 RK	5/16 ST
2821210	CF04K6E-PFV-970	404A	LT	3680	3.3	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2821225	CF06K6E-TF5-970	404A	LT	6320	3.9	200/230	60	3	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2821220	CF06K6E-PFV-970	404A	LT	6690	3.8	208/230	60	1	10.3	9.1	13.3	7.5	7.5	3/4 ST	3/8 ST
2821240	CF09K6E-TF5-970	404A	LT	9620	4.1	200/230	60	3	10.3	9.1	13.8	7.5	7.5	3/4 ST	1/2 ST
2821235	CF09K6E-PFV-970	404A	LT	9620	4.0	208/230	60	1	10.3	9.1	13.8	7.5	7.5	3/4 ST	1/2 ST
2821250	CF12K6E-PFV-970	404A	LT	12500	4.0	208/230	60	1	10.3	9.1	14.3	7.5	7.5	3/4 ST	1/2 ST
2821255	CF12K6E-TF5-970	404A	LT	12500	4.0	200/230	60	3	10.3	9.1	14.3	7.5	7.5	3/4 ST	1/2 ST

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	115°F

COPELAWELD AIR CONDITIONING

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2810580	CR22KQ-PFV-980WB	22	AC	21800	10.0	208/230	60	1	9.3	8.9	13.2	7.5	7.5	5/8 ST	3/8 ST
2810640	CR34KQ-TF5-980WB	22	AC	32000	10.0	200/230	60	3	9.3	9.3	13.8	7.5	7.5	3/4 ST	3/8 ST
2810630	CR33KQ-PFV-980WB	22	AC	32700	10.0	208/230	60	1	9.3	9.3	13.1	7.5	7.5	3/4 ST	3/8 ST
2810635	CR34KQ-PFV-980WB	22	AC	34000	10.1	208/230	60	1	9.3	9.3	13.4	7.5	7.5	3/4 ST	3/8 ST
2810655	CR37KQ-TFD-980WB	22	AC	36400	10.4	460	60	3	9.3	9.3	14.3	7.5	7.5	3/4 ST	3/8 ST
2810660	CR37KQ-TF5-980WB	22	AC	36400	10.4	200/230	60	3	9.3	9.3	14.3	7.5	7.5	3/4 ST	3/8 ST
2810650	CR37KQ-PFV-980WB	22	AC	36800	10.1	208/230	60	1	9.3	9.3	13.6	7.5	7.5	3/4 ST	3/8 ST
2810680	CR41KQ-TF5-980WB	22	AC	40700	10.2	200/230	60	3	9.3	9.3	14.6	7.5	7.5	3/4 ST	3/8 ST
2810675	CR41KQ-TFD-980WB	22	AC	41200	10.3	460	60	3	9.3	9.3	14.6	7.5	7.5	3/4 ST	3/8 ST
2810670	CR41KQ-PFV-980WB	22	AC	41700	10.3	208/230	60	1	9.3	9.3	13.9	7.5	7.5	3/4 ST	3/8 ST
2810720	CR47KQ-TF5-980WB	22	AC	47200	10.4	200/230	60	3	10.4	9.1	14.8	7.5	7.5	7/8 ST	1/2 ST
2810715	CR47KQ-TFD-980WB	22	AC	47200	10.4	460	60	3	10.4	9.1	14.8	7.5	7.5	7/8 ST	1/2 ST
2810710	CR47KQ-PFV-980WB	22	AC	47500	10.4	208/230	60	1	10.4	9.1	14.8	7.5	7.5	7/8 ST	1/2 ST
2810750	CR53KQ-TF5-980WB	22	AC	53200	10.1	200/230	60	3	10.6	9.2	14.8	7.5	7.5	7/8 ST	1/2 ST
2810745	CR53KQ-TFD-980WB	22	AC	53200	10.2	460	60	3	10.6	9.2	14.8	7.5	7.5	7/8 ST	1/2 ST
2810740	CR53KQ-PFV-980WB	22	AC	53300	10.1	208/230	60	1	10.6	9.2	14.8	7.5	7.5	7/8 ST	1/2 ST
2810405	CRP5-0450-TF5-970	22	AC	57000	10.1	200/230	60	3	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810400	CRP5-0450-TFD-970	22	AC	57000	10.1	460	60	3	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810395	CRP5-0450-PFV-970	22	AC	58400	10.1	208/230	60	1	11.4	9.4	15.9	7.5	7.5	7/8 ST	1/2 ST
2810410	CRN5-0500-PFV-970	22	AC	60600	9.8	208/230	60	1	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST
2810420	CRN5-0500-TF5-970	22	AC	61300	10.1	200/230	60	3	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST
2810415	CRN5-0500-TFD-970	22	AC	61300	10.1	460	60	3	11.4	9.4	16.1	7.5	7.5	7/8 ST	1/2 ST

COPELAND COMPLIANT SCROLL PRODUCT NOMENCLATURE



BILL OF MATERIALS DEFINITIONS (B.O.M.)

The First Digit - _XX

9- Wholesaler Service Compressors.

The Second Digit - X_X

0- Sweat Connections.

3- Sweat Connections, no electrical components, usually Scroll and some CR's.

5- Rotalock Connections or a valve welded on the suction side. Exception, some Scroll compressors are sweat.

7- Sweat Connections with terminal flag kit, no electrical components. CR's primarily.

The Third Digit - XX_

0- No electrical components with the compressor.

1-3- CC heater voltage variation.

8- Electrical components mounted.

9- Electrical components remote, in the box with the compressor.

COMPLIANT SCROLL SERVICE COMPRESSORS

SCROLL APPLICATION ABBREVIATIONS	
AC	Air Conditioning
HT	High Temperature
LC	Low Temperature, Low Condensing
LL	Low Temperature, Liquid Injected
ML	Medium Temperature, Liquid Injected
MT	Medium Temperature

CONNECTION TYPE ABBREVIATIONS	
SW	Sweat
FL	Flare
ST	Stub
RK	Rotalock
FG	Flange

SCROLL MEDIUM TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
20°F	120°F	40°F	120°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2826995	ZF06K4E-TF5-931	404A	ML	14700	6.2	200/230	60	3	9.5	9.5	15.8	7.5	7.5	3/4 ST	1/2 ST
2826998	ZF08K4E-TF5-961	404A	ML	18900	6.6	200/230	60	3	9.5	9.5	15.7	7.5	7.5	3/4 RK	1/2 RK
2827025	ZF13K4E-TF5-931	134A	ML	19500	8.0	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827027	ZF13K4E-TF5-961	134A	ML	19500	8.0	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827020	ZF13K4E-TFD-961	134A	ML	19500	8.0	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827010	ZF09K4E-TF5-931	404A	ML	20900	7.2	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2827011	ZF09K4E-TF5-961	404A	ML	20900	7.2	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 RK	1/2 RK
2827005	ZF09K4E-TFD-931	404A	ML	20900	7.2	460	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2827045	ZF15K4E-TF5-931	134A	ML	24000	8.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	134A	ML	24000	8.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	134A	ML	24000	8.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	134A	ML	24000	8.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827015	ZF11K4E-TF5-931	404A	ML	26300	7.1	200/230	60	3	9.6	9.5	17.2	7.5	7.5	3/4 ST	1/2 ST
2827060	ZF18K4E-TF5-931	134A	ML	28800	8.0	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	134A	ML	28800	8.0	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	134A	ML	28800	8.0	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827025	ZF13K4E-TF5-931	404A	MT	30000	7.4	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827027	ZF13K4E-TF5-961	404A	MT	30000	7.4	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827020	ZF13K4E-TFD-961	404A	MT	30000	7.4	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827027	ZF13K4E-TF5-961	404A	ML	30200	7.0	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827020	ZF13K4E-TFD-961	404A	ML	30200	7.0	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827075	ZF24K4E-TWC-951	134A	ML	34400	7.4	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827045	ZF15K4E-TF5-931	404A	MT	36800	7.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	404A	MT	36800	7.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	404A	MT	36800	7.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	404A	MT	36800	7.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827045	ZF15K4E-TF5-931	404A	ML	37200	7.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	404A	ML	37200	7.1	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	404A	ML	37200	7.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	404A	ML	37200	7.1	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2816725	ZB66KCE-TF5-931	134A	MT	40500	7.3	200/230	60	3	10.4	11.19	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816720	ZB66KCE-TFD-931	134A	MT	40500	7.3	460	60	3	10.4	11.19	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2827060	ZF18K4E-TF5-931	404A	MT	44100	7.2	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	404A	MT	44100	7.2	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	404A	MT	44100	7.2	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827060	ZF18K4E-TF5-931	404A	ML	44800	7.1	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	404A	ML	44800	7.1	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	404A	ML	44800	7.1	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827085	ZF33K4E-TWC-951	134A	ML	48800	7.2	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827090	ZF33K4E-TWD-951	134A	ML	48800	7.2	460	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2816705	ZB50KCE-TF5-931	404A	MT	49700	6.5	200/230	60	3	10.38	11.19	18.88	7.5	7.5	1-1/8 ST	7/8 ST
2816700	ZB50KCE-TFD-931	404A	MT	49700	6.5	460	60	3	10.38	11.19	18.88	7.5	7.5	1-1/8 ST	7/8 ST
2827075	ZF24K4E-TWC-951	404A	ML	53700	6.6	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2816715	ZB58KCE-TF5-931	404A	MT	54000	6.3	200/230	60	3	10.4	11.2	18.8	7.5	7.5	1-1/8 ST	7/8 ST
2816710	ZB58KCE-TFD-931	404A	MT	54000	6.3	460	60	3	10.4	11.2	18.8	7.5	7.5	1-1/8 ST	7/8 ST
2816735	ZB76KCE-TF5-931	404A	MT	75000	6.8	200/230	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816730	ZB76KCE-TFD-931	404A	MT	75000	6.8	460	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2827085	ZF33K4E-TWC-951	404A	ML	76300	6.6	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827090	ZF33K4E-TWD-951	404A	ML	76300	6.6	460	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827109	ZF48K4E-TWC-951	404A	ML	108100	6.5	208/230	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827110	ZF48K4E-TWD-951	404A	ML	108100	6.5	460	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827109	ZF48K4E-TWC-951	404A	MT	108200	6.5	208/230	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827110	ZF48K4E-TWD-951	404A	MT	108200	6.5	460	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK

SCROLL LOW TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
-10°F	130°F	40°F	120°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS L	W	H	MOUNT DIMS. L	W	CONNECTIONS SUCTION	DISCHARGE
2826995	ZF06K4E-TF5-931	404A	LL	6560	4.1	200/230	60	3	9.5	9.5	15.8	7.5	7.5	3/4 ST	1/2 ST
2827020	ZF13K4E-TFD-961	134A	LL	7080	4.3	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827025	ZF13K4E-TF5-931	134A	LL	7100	4.3	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827027	ZF13K4E-TF5-961	134A	LL	7100	4.3	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2826995	ZF06K4E-TF5-931	404A	LC	7650	8.5	200/230	60	3	9.5	9.5	15.8	7.5	7.5	3/4 ST	1/2 ST
2826998	ZF08K4E-TF5-961	404A	LL	8310	4.1	200/230	60	3	9.5	9.5	15.7	7.5	7.5	3/4 RK	1/2 ST
2827045	ZF15K4E-TF5-931	134A	LL	8700	4.3	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	134A	LL	8700	4.3	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	134A	LL	8730	4.3	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	134A	LL	8730	4.3	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827010	ZF09K4E-TF5-931	404A	LL	9260	4.6	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2827011	ZF09K4E-TF5-961	404A	LL	9260	4.6	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 RK	1/2 RK
2827005	ZF09K4E-TFD-931	404A	LL	9260	4.6	460	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2826998	ZF08K4E-TF5-961	404A	LC	9400	8.8	200/230	60	3	9.5	9.5	15.7	7.5	7.5	3/4 RK	1/2 RK
2827060	ZF18K4E-TF5-931	134A	LL	10300	4.3	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	134A	LL	10300	4.3	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	134A	LL	10300	4.3	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827013	ZF11K4E-PFV-931	404A	LL	11200	4.4	208/230	60	1	9.6	9.5	17.2	7.5	7.5	3/4 ST	1/2 ST
2827015	ZF11K4E-TF5-931	404A	LL	11500	4.5	200/230	60	3	9.6	9.5	17.2	7.5	7.5	3/4 ST	1/2 ST
2827075	ZF24K4E-TWC-951	134A	LL	12700	3.9	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827010	ZF09K4E-TF5-931	404A	LC	12800	10.3	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2827011	ZF09K4E-TF5-961	404A	LC	12800	10.3	200/230	60	3	9.6	9.5	16.6	7.5	7.5	3/4 RK	1/2 RK
2827005	ZF09K4E-TFD-931	404A	LC	12800	10.3	460	60	3	9.6	9.5	16.6	7.5	7.5	3/4 ST	1/2 ST
2827025	ZF13K4E-TF5-931	404A	LL	13000	4.6	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827027	ZF13K4E-TF5-961	404A	LL	13000	4.6	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827020	ZF13K4E-TFD-961	404A	LL	13000	4.6	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827015	ZF11K4E-TF5-931	404A	LC	15800	10.4	200/230	60	3	9.6	9.5	17.2	7.5	7.5	3/4 ST	1/2 ST
2827045	ZF15K4E-TF5-931	404A	LL	16200	4.7	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	404A	LL	16200	4.7	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	404A	LL	16200	4.7	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827085	ZF33K4E-TWC-951	134A	LL	17600	4.0	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827090	ZF33K4E-TWD-951	134A	LL	17600	4.0	460	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827025	ZF13K4E-TF5-931	404A	LC	18600	10.8	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827027	ZF13K4E-TF5-961	404A	LC	18600	10.8	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827020	ZF13K4E-TFD-961	404A	LC	18600	10.8	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 RK	1/2 RK
2827060	ZF18K4E-TF5-931	404A	LL	19700	4.8	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	404A	LL	19700	4.8	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	404A	LL	19700	4.8	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827045	ZF15K4E-TF5-931	404A	LC	22500	10.9	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	404A	LC	22500	10.9	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827050	ZF15K4E-TF5-961	404A	LL	22500	4.7	200/230	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827035	ZF15K4E-TFD-931	404A	LC	22500	10.9	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827040	ZF15K4E-TFD-961	404A	LC	22500	10.9	460	60	3	10.0	9.6	17.8	7.5	7.5	7/8 ST	1/2 ST
2827075	ZF24K4E-TWC-951	404A	LL	23700	4.3	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827060	ZF18K4E-TF5-931	404A	LC	27100	10.7	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827055	ZF18K4E-TFD-961	404A	LC	27100	10.7	460	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827065	ZF18K4E-TF5-961	404A	LC	27100	10.7	200/230	60	3	10.0	9.6	18.5	7.5	7.5	7/8 ST	1/2 ST
2827075	ZF24K4E-TWC-951	404A	LC	32200	9.3	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827085	ZF33K4E-TWC-951	404A	LL	33400	4.3	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827090	ZF33K4E-TWD-951	404A	LL	33400	4.3	460	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827085	ZF33K4E-TWC-951	404A	LT	33500	4.3	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827085	ZF33K4E-TWC-951	404A	LC	46200	9.2	208/230	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827090	ZF33K4E-TWD-951	404A	LC	46200	9.2	460	60	3	12.6	14.1	21.2	8.7	8.7	1-3/4 RK	1-1/4 RK
2827109	ZF48K4E-TWC-951	404A	LL	47700	4.1	208/230	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827110	ZF48K4E-TWD-951	404A	LL	47700	4.1	460	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827109	ZF48K4E-TWC-951	404A	LC	65800	8.9	208/230	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK
2827110	ZF48K4E-TWD-951	404A	LC	65800	8.9	460	60	3	12.6	14.1	23.4	8.7	8.7	2-1/4 RK	1-3/4 RK

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COPELAND PRODUCT SPECIALIST.
They'll be glad to answer any Copeland questions that you may have!

SCROLL AIR CONDITIONING

**CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	115°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS L	W	H	MOUNT DIMS. L	W	CONNECTIONS SUCTION	DISCHARGE
2817005	ZR22K3-PFV-930	22	AC	22100	11.0	208/230	60	1	9.5	9.5	14.8	7.5	7.5	3/4 ST	1/2 ST
2817015	ZR28K3-PFV-930	22	AC	28500	11.1	208/230	60	1	9.5	9.5	14.8	7.5	7.5	3/4 ST	1/2 ST
2817025	ZR34K3-PFV-930	22	AC	34000	11.2	208/230	60	1	9.5	9.5	15.7	7.5	7.5	3/4 ST	1/2 ST
2817035	ZR40K3-PFV-930	22	AC	40000	11.2	208/230	60	1	9.5	9.5	16.3	7.5	7.5	3/4 ST	1/2 ST
2817060	ZR47K3-TF5-935	22	AC	47500	11.4	200/230	60	3	9.5	9.5	16.9	7.5	7.5	7/8 ST	1/2 ST
2817055	ZR47K3-PFV-935	22	AC	49200	11.2	208/230	60	1	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817082	ZR57K3-TF5-930	22	AC	57200	11.7	200/230	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817080	ZR57K3-TFD-930	22	AC	57200	11.5	460	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817075	ZR57K3-PFV-930	22	AC	57500	11.4	208/230	60	1	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817105	ZR61K3-TF5-930	22	AC	61000	11.5	200/230	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817095	ZR61K3-TFD-930	22	AC	61000	11.5	460	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817085	ZR61K3-PFV-930	22	AC	61200	11.3	208/230	60	1	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817118	ZR68KC-TF5-930	22	AC	70000	11.8	200/230	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817125	ZR72KC-TF5-950	22	AC	73500	11.8	200/230	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817120	ZR72KC-TFD-950	22	AC	73500	11.8	460	60	3	9.5	9.7	17.8	7.5	7.5	7/8 ST	1/2 ST
2817140	ZR94KC-TF5-950	22	AC	94000	11.4	200/230	60	3	10.4	11.2	18.8	7.5	7.5	1-1/8 ST	7/8 ST
2817135	ZR94KC-TFD-950	22	AC	94000	11.4	460	60	3	10.4	11.2	18.8	7.5	7.5	1-1/8 ST	7/8 ST
2816875	ZR108KC-TFD-950	22	AC	108700	11.5	460	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816880	ZR108KC-TF5-950	22	AC	108900	11.5	200/230	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816910	ZR125KC-TF5-950	22	AC	125900	11.5	200/230	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816905	ZR125KC-TFD-950	22	AC	126400	11.5	460	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816925	ZR144KC-TF5-950	22	AC	143000	11.5	200/230	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816920	ZR144KC-TFD-950	22	AC	143000	11.5	460	60	3	10.4	11.2	21.5	7.5	7.5	1-3/8 ST	7/8 ST
2816970	ZR19M3-TWD-961	22	AC	190000	11.0	460	60	3	12.6	13.8	23.3	8.7	8.7	2-1/4RK	1-3/4RK

COPELAMETIC AND DISCUS PRODUCT NOMENCLATURE

(10) Compressor Motor Protection

Code	Type Protection
A	External Inherent Protection – One Protector, (Line Break), Use with Contactor
F	Internal Inherent Protection – One Protector (Line Break) Use with Contactor
H	Internal Thermostat(s); Ext. Supplementary Protector Mounted on Compressor. (Two for 3 phase, one for single phase.) Use with Contactor
L	Internal Thermostat(s); and Three Ext. Supplementary Protectors Mounted on Compressor. Use with Contactor
S	Internal Thermal Protection – Electronic Sensors; and Control Module External Use with Contactor

(11) Electrical Codes

60 Hz	Code
115-1	A
230-1	B
208/230-3	C
460-3	D
575-3	E
208/230/460-3	K
230/460-3	N
200-3	U
208/230-1	V

X X X X – X X X X – X X X – X X X

(5)-(6)-(7)-(8) Compressor Motor Rating

HP	Code
1/3	0033
1/2	0050
1/2	0051
3/4	0075
1	0100
1-1/2	0150
2	0200
2	0210
3	0300
3	0310
3	0311
4	0400
5	0500
5	0505
6	0600
7-1/2	0750
7-1/2	0765
9	0900
10	1000
10	1015
12	1200
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
35	3500
40	4000

(1) Compressor Family Series
Either a number or a letter established for each product model

(2) Copelametic Compressor Model Type

Water-Cooled

Code	Description
W	Std. Water Cooled

Discus

Code	Description
D	Discus Refrigerant Cooled

Air-Cooled

Code	Description
A	Std. Air Cooled

Refrigerant-Cooled

Code	Description
R	Std. Refrig. Cooled
T	Two Stage

(3) Displacement and Valve Plate
A letter only, arbitrarily assigned for each different displacement valve plate combination within any one family series

(4) Model Variation
A number only, assigned to indicate major variations within any one family series

(9) Compressor Motor Types

Phase	Description	Code
1	Capacitor Run-Capacitor Start	C
1	Induction Run-Capacitor Start	I
3	WYE (Star) Delta	E
3	Six lead part winding or across the line-except 575 V	F
3	Misc three phase -Single voltage three lead -Dual voltage nine lead -575 V 60 Hz/500 V 50 Hz Under 20 hp three lead 20 hp and up six lead part winding	
3	460V	T

(4)-(5)-(6) Bill Of Material Product Variation

DISCUS COPELAMETIC COMPRESSOR MODEL NUMBER NOMENCLATURE

COMPRESSOR COOLING

CODE	DESCRIPTION
A	AIR COOLED
D	DISCUS
R	REFRIGERANT COOLED
T	STANDARD TWO STAGE
W	WATER COOLED

TANDEM STYLE MODELS
INDICATED BY THE DIGIT REPRESENTING THE COMP MODEL SERIES CONNECTED IN TENDEM WITH A COMP OF THE MODEL SERIES BY THE FIRST DIGIT

COMPRESSOR MOTOR TYPE

SINGLE PHASE MOTORS	CODE
CAPACITOR RUN - CAPACITOR START	C
INDUCTION RUN - CAPACITOR START	I
INDUCTION RUN - SPLIT PHASE	S
INDUCTION RUN - CAPACITOR START, LOW TORQUE	X
THREE PHASE MOTORS	
GENERAL	
3 LEAD VOLTAGE	T
6 LEAD PART WINDING (575 VOLT)	
9 LEAD DUAL VOLTAGE	
STAR (WYE) DELTA	E
6 LEAD MOTORS	F
PART WINDING OR ACROSS THE LINE	

COMPRESSOR PROTECTION

TYPE PROTECTION	CODE
EXTERNAL INHERENT PROTECTION- ONE PROTECTOR (LINE BREAK) .USE WITH CONTACTOR.	A
INTERNAL INHERENT PROTECTION - ONE PROTECTOR. USE WITH CONTACTOR.	F
INTERNAL THERMOSTAT (S) AND EXTERNAL SUPPLEMENTARY PROTECTOR(S). USE WITH CONTACTOR.	H
INTERNAL THERMOSTAT(S) AND THREE EXTERNAL SUPPLEMENTARY PROTECTORS. USE WITH CONYTACTOR.	L
INTERNAL THERMAL PROTECTORS - ELECTRONIC SENSORS AND CONTROL MODULE EXTERNAL. USE WITH CONTACTOR.	S
INTERNAL THERMAL PROTECTORS - ELECTRONIC SENSORS AND CONTROL MODULE EXTERNAL. USE WITH CONTACTOR. (FOR EUROPEAN USE ONLY)	W

X X X X X X X X X - X X X X X X

COMPRESSOR FAMILY SERIES
EITHER A NUMBER OR A LETTER ESTABLISHED FOR EACH PRODUCT FAMILY

DISPLACEMENT AND VALVE PLATE
A LETTER ONLY. ARBITRARILY ASSIGNED FOR EACH DIFFERENT DISPLACEMENT VALVE PLATE COMBINATION WITHN ANY ONE FAMILY SERIES.

MODEL VARIATIONS
EITHER A NUMBER OR A LETTER ASSIGNED TO INDICATE MAJOR VARIATIONS WITHIN ANY ONE FAMILY SERIES.

PRIMARY APPLICATION RANGE
R= ARI HIGH TEMP RATED AT 45/130
S= ARI MED. TEMP RATED AT 20/120
F= ARI LOW TEMP RATED AT -25/105

NOMINAL CAPACITY AT RATING CONDITION
2 NUMERIC CHARACTERS

CAPACITY MULTIPLIER
K - 1,000
M - 10,000

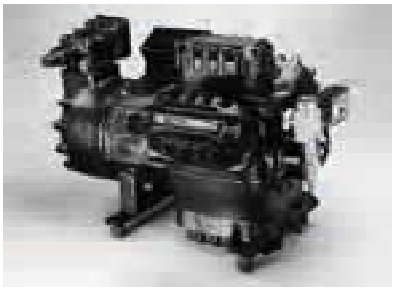
MAY ALSO BE
"0" (MINERAL OIL)
"E" (POE OIL)
"L" (LESS OIL)

ELECTRICAL CODES

60hz	50hz (TYPICAL)	CODE
115-1	100-1	A
230-1	200-1	B
208/230-3	200/220-3	C
460-3	380/400-3	D
575-3	500-3	E
-	115-1	F
-	230-1	G
208-1	200-1	H
-	208/230-1	I
208/230/460-3	200/400-3	K
-	210/240/380-3	L
-	380-420-3	M
230/460-3	200/400-3	N
-	200/380-3	P
-	200/240-3	R
-	220-1	S
-	200-1	T
200-3	-	U
208/230-1	200-1	V
-	200/240-1	W
MISC A/C RATINGS		
-	500-3	Y
-	220/240-1	Z
200-1	200-1	3
100-1	100-1	4
200/230-3	-	5
230-3	-	6
380	346	7
200/220/380	200/346	8

PRODUCT VARIATIONS
NUMBERS WILL BE ASSIGNED AS FOLLOWS
1. NUMBER -001 THROUGH -199 ARE RESERVED FOR SUB-B/M NUMBERS
2. NUMBERS -200 INDICATES A STANDARD COMPRESSOR AND COMPONENT PARTS B/M AND MODEL NUMBER.
3. NUMBERS -201 AND LARGER WILL BE ASSIGNED FOR ALL OTHER VARIATIONS OF A GIVEN MODEL

DISCUS SERVICE COMPRESSORS



DISCUS APPLICATION ABBREVIATIONS	
HT	High Temperature
MT	Medium Temperature
LT	Low Temperature
AC	Air Conditioning

CONNECTION TYPE ABBREVIATIONS	
SW	Sweat
FL	Flare
ST	Stub
RK	Rotalock
FG	Flange

DISCUS HIGH TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	95°F

ILLCO #	OLD COPELAND #	NEW COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
										L	W	H	L	W	SUCTION	DISCHARGE
2801531	2DF3-030E-TFD	2DF3F16KE-TFD	134A	HT	47700	10.8	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801530	2DF3-030E-TFC	2DF3F16KE-TFC	134A	HT	47700	10.8	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801480	2DA3-0500-TFC	2DA3R58K0-TFC	12	HT	58100	10.6	208/230	60	3	22.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801500	2DA3-060E-TFC	2DA3F23KE-TFC	134A	HT	59800	10.8	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801516	2DB3-060E-TFD	2DB3F25KE-TFD	134A	HT	62800	10.8	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801515	2DB3-060E-TFC	2DB3F25KE-TFC	134A	HT	62800	10.8	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801601	3DA3A060E-TFD	3DA3F28KE-TFD	134A	HT	72000	10.5	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801600	3DA3A060E-TFC	3DA3F28KE-TFC	134A	HT	72000	10.5	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801620	3DB3A075E-TFD	3DB3F33KE-TFD	134A	HT	84800	10.4	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801615	3DB3A075E-TFC	3DB3F33KE-TFC	134A	HT	84800	10.4	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801645	3DF3A090E-TFD	3DF3F40KE-TFD	134A	HT	99400	10.1	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801640	3DF3A090E-TFC	3DF3F40KE-TFC	134A	HT	99400	10.1	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801695	3DS3A100E-TFD	3DS3F46KE-TFD	134A	HT	110400	10.1	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801690	3DS3A100E-TFC	3DS3F46KE-TFC	134A	HT	110400	10.1	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW

DISCUS MEDIUM TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
20°F	120°F	40°F	120°F

ILLCO #	COPELAND #	NEW COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
										L	W	H	L	W	SUCTION	DISCHARGE
2801525	2DC3-050E-TFD	2DC3R53KE-TFD	22	MT	34900	8.6	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801520	2DC3-050E-TFC	2DC3R53KE-TFC	22	MT	34900	8.6	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801525	2DC3-050E-TFD	2DC3R53KE-TFD	502	MT	35600	8.3	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801520	2DC3-050E-TFC	2DC3R53KE-TFC	502	MT	35600	8.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801480	2DA3-0500-TFC	2DA3R58K0-TFC	12	MT	36950	8.6	208/230	60	3	22.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801528	2DD3-050E-TFD	2DD3R63KE-TFD	404A	MT	41900	7.9	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801527	2DD3-050E-TFC	2DD3R63KE-TFC	404A	MT	41900	7.9	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801528	2DD3-050E-TFD	2DD3R63KE-TFD	507	MT	43200	8.0	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801527	2DD3-050E-TFC	2DD3R63KE-TFC	507	MT	43200	8.0	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801543	2DL3-075E-TFD	2DL3R78KE-TFD	404A	MT	51800	7.9	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801540	2DL3-075E-TFC	2DL3R78KE-TFC	22	MT	52400	8.8	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801540	2DL3-075E-TFC	2DL3R78KE-TFC	502	MT	52500	8.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801543	2DL3-075E-TFD	2DL3R78KE-TFD	507	MT	53400	8.0	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801510	2DA3-075E-TFD	2DA3R89KE-TFD	22	MT	59400	8.7	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801505	2DA3-075E-TFC	2DA3R89KE-TFC	22	MT	59400	8.7	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801510	2DA3-075E-TFD	2DA3R89KE-TFD	502	MT	60500	8.3	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801505	2DA3-075E-TFC	2DA3R89KE-TFC	502	MT	60500	8.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801604	3DA3A075E-TFD	3DA3R10ME-TFD	404A	MT	71200	7.8	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801603	3DA3A075E-TFC	3DA3R10ME-TFC	404A	MT	71200	7.8	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801610	3DA3A0750-TFD	3DA3R10M0-TFD	22	MT	72800	8.6	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801605	3DA3A0750-TFC	3DA3R10M0-TFC	22	MT	72800	8.6	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801604	3DA3A075E-TFD	3DA3R10ME-TFD	507	MT	73300	7.9	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801603	3DA3A075E-TFC	3DA3R10ME-TFC	507	MT	73300	7.9	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801630	3DB3A1000-TFD	3DB3R12M0-TFD	22	MT	87200	8.7	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801680	3DP3A1000-TFD	3DP3R12M0-TFD	22	MT	87200	8.7	460	60	3	26.8	15.1	21.3	15.0	12.0	1-3/8 SW	1-1/8 SW
2801625	3DB3A1000-TFC	3DB3R12M0-TFC	22	MT	87200	8.7	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801650	3DF3A120E-TFD	3DF3R15ME-TFD	404A	MT	104600	7.6	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801650	3DF3A120E-TFD	3DF3R15ME-TFD	507	MT	107700	7.7	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801705	3DS3A1500-TFD	3DS3R17M0-TFD	22	MT	116000	8.5	460	60	3	28.0	15.1	18.0	15.0	12.0	1-5/8 SW	1-1/8 SW
2801700	3DS3A1500-TFC	3DS3R17M0-TFC	22	MT	116000	8.5	208/230	60	3	28.0	15.1	18.0	15.0	12.0	1-5/8 SW	1-1/8 SW

DISCUS MEDIUM TEMPERATURE

ILLCO #	COPELAND #	NEW COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
										L	W	H	L	W	SUCTION	DISCHARGE
2801715	3DT3A1500-TFC	3DT3R17M0-TFC	22	MT	116000	8.5	208/230	60	3	28.0	15.1	21.3	15.0	12.0	1-5/8 SW	1-1/8 SW
2801750	4DE3A2000-TSK	4DE3R18M0-TSK	502	MT	122000	8.1	208/230/460	60	3	25.4	20.1	18.0	15.0	12.0	1-5/8 SW	1-3/8 SW
2801750	4DE3A2000-TSK	4DE3R18M0-TSK	22	MT	123000	8.7	208/230/460	60	3	25.4	20.1	18.0	15.0	12.0	1-5/8 SW	1-3/8 SW
2801760	4DK3A2500-TSK	4DK3R22M0-TSK	22	MT	158000	8.5	208/230/460	60	3	26.3	20.5	18.8	15.0	12.0	2-1/8 SW	1-3/8 SW
2801760	4DK3A2500-TSK	4DK3R22M0-TSK	502	MT	159000	8.1	208/230/460	60	3	26.3	20.5	18.8	15.0	12.0	2-1/8 SW	1-3/8 SW
2801775	4DR3A3000-TSK	4DR3R28M0-TSK	502	MT	186000	7.7	208/230/460	60	3	27.0	20.4	17.9	15.0	12.0	2-1/8 SW	1-3/8 SW
2801775	4DR3A3000-TSK	4DR3R28M0-TSK	22	MT	187000	8.3	208/230/460	60	3	27.0	20.4	17.9	15.0	12.0	2-1/8 SW	1-3/8 SW
2801870	6DS3A4000-TSN	6DS3R40M0-TSN	502	MT	279000	7.7	230/460	60	3	30.2	22.4	23.2	15.0	12.0	2-1/8 SW	1-5/8 RK
2801870	6DS3A4000-TSN	6DS3R40M0-TSN	22	MT	281000	8.5	230/460	60	3	30.2	22.4	23.2	15.0	12.0	2-1/8 SW	1-5/8 RK
2801980	8DS1-6000-TSK	8DS1R67M0-TSK	502	MT	376000	7.0	208/230/460	60	3	32.8	21.4	23.0	18.0	12.0	3-1/8 SW	1-5/8 SW

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
-10°F	120°F	40°F	120°F

CONDITIONS - R-502			
EVAP	COND	RETURN GAS	LIQUID
-20°F	120°F	65°F	105°F

DISCUS LOW TEMPERATURE

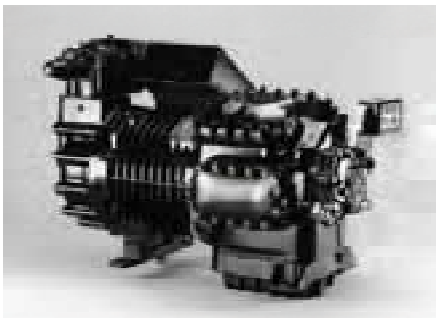
ILLCO #	COPELAND #	NEW COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
										L	W	H	L	W	SUCTION	DISCHARGE
2801531	2DF3-030E-TFD	2DF3F16KE-TFD	404A	LT	16300	4.9	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801530	2DF3-030E-TFC	2DF3F16KE-TFC	404A	LT	16300	4.9	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801531	2DF3-030E-TFD	2DF3F16KE-TFD	507	LT	16800	4.9	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801530	2DF3-030E-TFC	2DF3F16KE-TFC	507	LT	16800	4.9	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801502	2DA3-060E-TFD	2DA3F23KE-TFD	22	LT	18800	4.9	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801535	2DL3-040E-TFC	2DL3F20KE-TFC	404A	LT	19900	5.2	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801537	2DL3-040E-TFD	2DL3F20KE-TFD	404A	LT	19900	5.2	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801535	2DL3-040E-TFC	2DL3F20KE-TFC	507	LT	20500	5.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801537	2DL3-040E-TFD	2DL3F20KE-TFD	507	LT	20500	5.3	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801502	2DA3-060E-TFD	2DA3F23KE-TFD	502	LT	23000	5.4	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801500	2DA3-060E-TFC	2DA3F23KE-TFC	404A	LT	23100	5.2	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801500	2DA3-060E-TFC	2DA3F23KE-TFC	507	LT	23800	5.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801516	2DB3-060E-TFD	2DB3F25KE-TFD	404A	LT	24600	5.3	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801515	2DB3-060E-TFC	2DB3F25KE-TFC	404A	LT	24600	5.3	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801516	2DB3-060E-TFD	2DB3F25KE-TFD	507	LT	25300	5.4	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801515	2DB3-060E-TFC	2DB3F25KE-TFC	507	LT	25300	5.4	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801601	3DA3A060E-TFD	3DA3F28KE-TFD	404A	LT	27800	5.2	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801600	3DA3A060E-TFC	3DA3F28KE-TFC	404A	LT	27800	5.2	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801601	3DA3A060E-TFD	3DA3F28KE-TFD	507	LT	28600	5.3	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801600	3DA3A060E-TFC	3DA3F28KE-TFC	507	LT	28600	5.3	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801620	3DB3A075E-TFD	3DB3F33KE-TFD	404A	LT	33100	5.2	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801615	3DB3A075E-TFC	3DB3F33KE-TFC	404A	LT	33100	5.2	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801620	3DB3A075E-TFD	3DB3F33KE-TFD	507	LT	34000	5.3	460	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801615	3DB3A075E-TFC	3DB3F33KE-TFC	507	LT	34000	5.3	208/230	60	3	25.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801640	3DF3A090E-TFC	3DF3F40KE-TFC	404A	LT	40200	5.3	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801645	3DF3A090E-TFD	3DF3F40KE-TFD	507	LT	41400	5.4	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801640	3DF3A090E-TFC	3DF3F40KE-TFC	507	LT	41400	5.4	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801695	3DS3A100E-TFD	3DS3F46KE-TFD	404A	LT	45700	5.3	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801690	3DS3A100E-TFC	3DS3F46KE-TFC	404A	LT	45700	5.3	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801695	3DS3A100E-TFD	3DS3F46KE-TFD	507	LT	47000	5.4	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801690	3DS3A100E-TFC	3DS3F46KE-TFC	507	LT	47000	5.4	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801740	4DA3A101E-TSK	4DA3F47KE-TSK	404A	LT	47200	5.2	208/230/460	60	3	25.4	20.2	17.7	15.0	12.0	1-5/8 SW	1-1/8 SW
2801740	4DA3A101E-TSK	4DA3F47KE-TSK	507	LT	48600	5.3	208/230/460	60	3	25.4	20.2	17.7	15.0	12.0	1-5/8 SW	1-1/8 SW
2801765	4DL3A150E-TSK	4DL3F63KE-TSK	404A	LT	63200	5.3	208/230/460	60	3	27.0	20.5	23.0	15.0	12.0	1-5/8 SW	1-3/8 SW
2801765	4DL3A150E-TSK	4DL3F63KE-TSK	507	LT	65100	5.3	208/230/460	60	3	27.0	20.5	23.0	15.0	12.0	1-5/8 SW	1-3/8 SW
2801780	4DT3A220E-TSK	4DT3F76KE-TSK	404A	LT	75600	5.4	208/230/460	60	3	27.9	20.5	23.0	15.0	12.0	2-1/8 SW	1-3/8 SW
2801780	4DT3A220E-TSK	4DT3F76KE-TSK	507	LT	77900	5.5	208/230/460	60	3	27.9	20.5	23.0	15.0	12.0	2-1/8 SW	1-3/8 SW
2801850	6DL3A270E-TSK	6DL3F93KE-TSK	404A	LT	93100	5.4	208/230/460	60	3	29.4	22.4	26.0	15.0	12.0	2-1/8 SW	1-3/8 RK
2801850	6DL3A270E-TSK	6DL3F93KE-TSK	507	LT	95900	5.4	208/230/460	60	3	29.4	22.4	26.0	15.0	12.0	2-1/8 SW	1-3/8 RK
2801880	6DT3A300E-TSK	6DT3F11ME-TSK	404A	LT	105000	5.0	208/230/460	60	3	29.4	22.4	28.8	15.0	12.0	2-1/8 SW	1-3/8 RK
2801880	6DT3A300E-TSK	6DT3F11ME-TSK	507	LT	108000	5.1	208/230/460	60	3	29.4	22.4	28.8	15.0	12.0	2-1/8 SW	1-3/8 RK

Still can't find it?
Give us a call. We're ready to help!

DISCUS AIR CONDITIONING

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	115°F

ILLCO #	COPELAND #	NEW COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
										L	W	H	L	W	SUCTION	DISCHARGE
2801525	2DC3-050E-TFD	2DC3R53KE-TFD	22	AC	62700	12.1	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801520	2DC3-050E-TFC	2DC3R53KE-TFC	22	AC	62700	12.1	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801540	2DL3-075E-TFC	2DL3R78KE-TFC	22	AC	90800	11.9	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801543	2DA3-075E-TFD	2DL3R78KE-TFD	22	AC	103000	11.8	460	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801540	2DA3-075E-TFC	2DL3R78KE-TFC	22	AC	103000	11.8	208/230	60	3	23.3	15.4	17.1	11.6	11.0	1-3/8 SW	7/8 SW
2801604	3DA3A075E-TFD	3DA3R10ME-TFD	22	AC	123900	11.8	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801603	3DA3A075E-TFC	3DA3R10ME-TFC	22	AC	123900	11.8	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801630	3DB3A1000-TFD	3DB3R12M0-TFD	22	AC	145900	11.7	460	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801680	3DP3A1000-TFD	3DP3R12M0-TFD	22	AC	145900	11.7	460	60	3	26.8	15.1	21.3	15.0	12.0	1-3/8 SW	1-1/8 SW
2801625	3DB3A1000-TFC	3DB3R12M0-TFC	22	AC	145900	11.7	208/230	60	3	26.8	15.1	18.0	15.0	12.0	1-3/8 SW	1-1/8 SW
2801870	6DS3A4000-TSN	6DS3R40M0-TSN	22	AC	159800	9.5	230/460	60	3	30.2	22.4	23.2	15.0	12.0	2-1/8 SW	1-5/8 RK
2801705	3DS3A1500-TFD	3DS3R17M0-TFD	22	AC	194000	11.4	460	60	3	28.0	15.1	18.0	15.0	12.0	1-5/8 SW	1-1/8 SW
2801700	3DS3A1500-TFC	3DS3R17M0-TFC	22	AC	194000	11.4	208/230	60	3	28.0	15.1	18.0	15.0	12.0	1-5/8 SW	1-1/8 SW
2801715	3DT3A1500-TFC	3DT3R17M0-TFC	22	AC	194000	11.4	208/230	60	3	28.0	15.1	21.3	15.0	12.0	1-5/8 SW	1-1/8 SW
2801750	4DE3A2000-TSK	4DE3R18M0-TSK	22	AC	210500	11.5	208/230/460	60	3	25.4	20.1	18.0	15.0	12.0	1-5/8 SW	1-3/8 SW
2801760	4DK3A2500-TSK	4DK3R22M0-TSK	22	AC	262400	11.1	208/230/460	60	3	26.3	20.5	18.8	15.0	12.0	2-1/8 SW	1-3/8 SW
2801775	4DR3A3000-TSK	4DR3R28M0-TSK	22	AC	318300	10.9	208/230/460	60	3	27.0	20.4	17.9	15.0	12.0	2-1/8 SW	1-3/8 SW
2801860	6DP3A3500-TSK	6DP3R35M0-TSK	22	AC	389400	10.7	208/230/460	60	3	30.2	22.4	20.3	15.0	12.0	2-1/8 SW	1-5/8 RK
2801870	6DS3A4000-TSN	6DS3R40M0-TSN	22	AC	452600	10.5	230/460	60	3	30.2	22.4	23.2	15.0	12.0	2-1/8 SW	1-5/8 RK
2801980	8DS1-6000-TSK	8DS1R67M0-TSK	22	AC	644000	10.2	208/230/460	60	3	32.8	21.4	23.0	18.0	12.0	3-1/8 SW	1-5/8 SW



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COPELAMETIC SERVICE COMPRESSORS

COPELAMETIC APPLICATION ABBREVIATIONS	
HT	High Temperature
MT	Medium Temperature
LT	Low Temperature
XL	Extra Low Temperature
AC	Air Conditioning

CONNECTION TYPE ABBREVIATIONS	
SW	Sweat
FL	Flare
ST	Stub
RK	Rotalock
FG	Flange

COPELAMETIC HIGH TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	95°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARGE
2801025	HAK2-0050-IAA	12	HT	4480	6.3	115	60	1	12.4	8.9	10.5	8.2	6.4	1/2 FL	3/8 FL
2801010	HAG2-0050-CAA	22	HT	5410	8.4	115	60	1	12.4	8.9	10.5	8.2	6.4	1/2 FL	3/8 FL
2801195	KANA-007E-TAC	22	HT	8820	9.8	208/230	60	3	14.4	9.5	10.4	8.2	6.4	1/2 FL	3/8 FL
2801272	EAVA-021E-TAC	134A	HT	21700	9.4	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801162	KAKB-021E-CAV	22	HT	21800	9.5	208/230	60	1	14.4	9.5	10.4	8.2	6.4	7/8 SW	1/2 FL
2801800	4RE2-200A-TSK	22	HT	184000	9.4	208/230/460	60	3	24.6	18.6	17.0	15.0	12.0	1-5/8 SW	1-1/8 SW
2801810	4RK2-250A-TSK	22	HT	229000	9.4	208/230/460	60	3	26.4	19.0	18.0	15.0	12.0	2-1/8 SW	1-1/8 SW
2801900	6RN2-300A-TSK	22	HT	277000	9.5	208/230/460	60	3	29.4	22.6	18.0	15.0	12.0	2-1/8 SW	1-3/8 RK
2801910	6RP2-350A-TSK	22	HT	348000	9.3	208/230/460	60	3	30.2	23.0	18.0	15.0	12.0	2-1/8 SW	1-3/8 RK
2801920	6RS2-400A-TSN	22	HT	384000	9.0	230/460	60	3	30.2	24.1	20.8	15.0	12.0	2-1/8 SW	1-3/8 RK

COPELAMETIC MEDIUM TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
20°F	120°F	40°F	120°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARG
2801020	HAJB-005E-CAV	22	MT	3800	6.7	208/230	60	1	12.4	8.9	10.5	8.2	6.4	1/2 FL	3/8 FL
2801195	KANA-007E-TAC	404A	MT	4740	6.0	208/230	60	3	14.4	9.5	10.4	8.2	6.4	1/2 FL	3/8 FL
2801198	KARA-010E-TAC	404A	MT	7220	5.6	208/230	60	3	14.4	9.5	10.4	8.2	6.4	5/8 FL	1/2 FL
2801162	KAKB-021E-CAV	404A	MT	12400	9.5	208/230	60	1	14.4	9.5	10.4	8.2	6.4	7/8 SW	1/2 FL
2801285	ERCA-021E-TAC	404A	MT	15200	6.1	208/230	60	3	16.7	12.0	12.9	10.0	10.5	7/8 SW	5/8 FL
2801265	EALB-020A-CAB	12	MT	15800	6.8	230	60	1	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801260	EALA-020A-TAC	12	MT	15900	7.2	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801290	ERFA-031E-TAC	404A	MT	22300	6.4	460	60	3	17.7	12.0	12.9	10.1	10.5	1-1/8 SW	5/8 FL
2801305	LACB-031A-CAB	12	MT	23200	6.5	230	60	1	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801325	LALB-031A-CAB	12	MT	23300	7.4	230	60	1	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801300	LACA-031A-TAC	12	MT	23300	6.9	208/230	60	3	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801320	LALA-031A-TAC	12	MT	23300	7.8	208/230	60	3	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL

COPELAMETIC LOW TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
-10°F	120°F	40°F	120°F

CONDITIONS - R-12			
EVAP	COND	RETURN GAS	LIQUID
-10°F	130°F	90°F	90°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS			MOUNT DIMS.		CONNECTIONS	
									L	W	H	L	W	SUCTION	DISCHARG
2801196	KANB-005E-IAA	404A	LT	1510	3.4	115	60	1	14.4	9.5	10.4	8.2	6.4	1/2 FL	3/8 FL
2801025	HAK2-0050-IAA	502	LT	1580	3.5	115	60	1	12.4	8.9	10.5	8.2	6.4	1/2 FL	3/8 FL
2801112	KAEB-007E-CAV	507	LT	1770	3.3	208/230	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801112	KAEB-007E-CAV	404A	LT	2030	3.3	208/230	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801180	KAMA-007E-TAC	404A	LT	2620	3.9	208/230	60	3	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801180	KAMA-007E-TAC	507	LT	2690	3.9	208/230	60	3	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801184	KAMB-007E-CAA	404A	LT	2800	3.8	115	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801185	KAMB-007E-CAV	404A	LT	2800	3.8	208/230	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801140	KAJA-011E-TAC	404A	LT	3710	4.0	208/230	60	3	14.4	9.5	10.4	8.2	6.4	5/8 FL	1/2 FL
2801145	KAJB-010E-CAV	404A	LT	3810	4.2	208/230	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	1/2 FL
2801140	KAJA-011E-TAC	507	LT	3820	4.0	208/230	60	3	14.4	9.5	10.4	8.2	6.4	5/8 FL	1/2 FL
2801160	KAKB-011E-CAV	404A	LT	4410	3.4	208/230	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	1/2 FL
2801177	KALB-015E-CAV	404A	LT	5800	4.1	208/230	60	1	14.4	9.5	10.4	8.2	6.4	7/8 SW	1/2 FL
2801177	KALB-015E-CAV	507	LT	5860	4.0	208/230	60	1	14.4	9.5	10.4	8.2	6.4	7/8 SW	1/2 FL

COPELAMETIC LOW TEMPERATURE

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS L	MAX DIMENSIONS W	MAX DIMENSIONS H	MOUNT DIMS. L	MOUNT DIMS. W	CONNECTIONS SUCTION	CONNECTIONS DISCHARGE
2801250	EADA-020E-TAC	404A	LT	6260	4.2	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801250	EADA-020E-TAC	507	LT	6450	4.3	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801272	EAVA-021E-TAC	404A	LT	6970	4.3	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801272	EAVA-021E-TAC	507	LT	7180	4.4	208/230	60	3	16.7	12.0	12.8	10.1	10.5	7/8 SW	1/2 FL
2801335	LAMA-031A-TAC	12	LT	9250	4.3	208/230	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801314	LAHA-032E-TAD	404A	LT	11200	4.6	460	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801312	LAHA-032E-TAC	404A	LT	11200	4.6	208/230	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801312	LAHA-032E-TAC	507	LT	11600	4.7	208/230	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801325	LALB-031A-CAB	502	LT	12400	4.1	230	60	1	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801320	LALA-031A-TAC	502	LT	12400	4.5	208/230	60	3	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801322	LALA-032E-TAD	404A	LT	13000	4.4	460	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801321	LALA-032E-TAC	404A	LT	13000	4.4	208/230	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801322	LALA-032E-TAD	507	LT	13400	4.5	460	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801321	LALA-032E-TAC	507	LT	13400	4.5	208/230	60	3	18.6	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801305	LACB-031A-CAB	502	LT	13500	4.3	230	60	1	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801300	LACA-031A-TAC	502	LT	13500	4.3	208/230	60	3	18.0	14.0	14.7	11.6	11.0	1-1/8 SW	5/8 FL
2801890	6RA4-200A-TSK	502	LT	61500	4.8	208/230/460	60	3	29.4	20.5	24.8	15.0	12.0	2-1/8 SW	1-3/8 RK
2801925	6RT1-300A-TSK	502	LT	91000	4.5	208/230/460	60	3	29.4	26.4	27.3	15.0	12.0	2-1/8 SW	1-3/8 RK

COPELAMETIC EXTRA-LOW TEMPERATURE

CONDITIONS			
EVAP	COND	RETURN GAS	LIQUID
-25°F	105°F	65°F	105°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS L	MAX DIMENSIONS W	MAX DIMENSIONS H	MOUNT DIMS. L	MOUNT DIMS. W	CONNECTIONS SUCTION	CONNECTIONS DISCHARG
2801123	KAGB-005E-IAA	404A	XL	2930	3.5	115	60	1	14.4	9.5	10.4	8.2	6.4	1/2 FL	3/8 FL
2801101	KAAB-007E-CAA	404A	XL	4200	3.7	115	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801101	KAAB-007E-CAA	507	XL	4330	3.7	115	60	1	14.4	9.5	10.4	8.2	6.4	5/8 FL	3/8 FL
2801220	KATB-015E-CAV	404A	XL	6900	4.1	208/230	60	1	14.4	9.5	10.4	8.2	6.4	1/2 SW	3/8 FL
2801220	KATB-015E-CAV	507	XL	7100	4.1	208/230	60	1	14.4	9.5	10.4	8.2	6.4	1/2 SW	3/8 FL

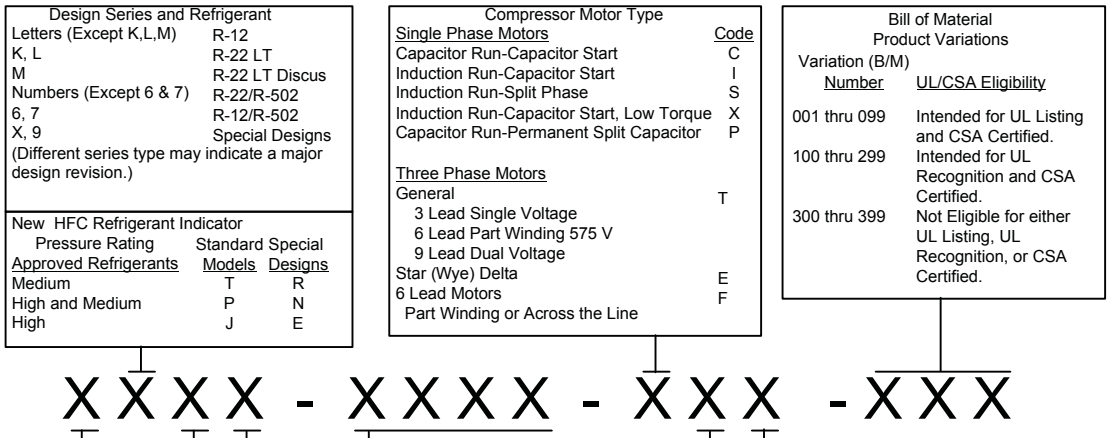
COPELAMETIC AIR CONDITIONING

CONDITIONS - 6RP2			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	115°F

CONDITIONS - 6RS2			
EVAP	COND	RETURN GAS	LIQUID
45°F	130°F	65°F	130°F

ILLCO #	COPELAND #	REFRIG.	APP.	BTUH	EER	VOLTS	FREQ.	PHASE	MAX DIMENSIONS L	MAX DIMENSIONS W	MAX DIMENSIONS H	MOUNT DIMS. L	MOUNT DIMS. W	CONNECTIONS SUCTION	CONNECTIONS DISCHARGE
2801910	6RP2-350A-TSK	22	AC	381000	10.1	208/230/460	60	3	30.2	23.0	18.0	15.0	12.0	2-1/8 SW	1-3/8 RK
2801810	6RS2-400A-TSN	22	AC	425000	9.6	230/460	60	3	30.2	24.1	20.8	15.0	12.0	2-1/8 SW	1-3/8 RK

CONDENSING UNIT MODEL UNIT NOMENCLATURE



Design Series and Refrigerant

Letters (Except K,L,M)	R-12
K, L	R-22 LT
M	R-22 LT Discus
Numbers (Except 6 & 7)	R-22/R-502
6, 7	R-12/R-502
X, 9	Special Designs

(Different series type may indicate a major design revision.)

New HFC Refrigerant Indicator

Pressure Rating / Approved Refrigerants	Standard Models	Special Designs
Medium	T	R
High and Medium	P	N
High	J	E

Compressor Motor Type

Single Phase Motors	Code
Capacitor Run-Capacitor Start	C
Induction Run-Capacitor Start	I
Induction Run-Split Phase	S
Induction Run-Capacitor Start, Low Torque	X
Capacitor Run-Permanent Split Capacitor	P
Three Phase Motors	
General 3 Lead Single Voltage 6 Lead Part Winding 575 V 9 Lead Dual Voltage	T
Star (Wye) Delta	E
6 Lead Motors Part Winding or Across the Line	F

Bill of Material Product Variations

Variation (B/M) Number	UL/CSA Eligibility
001 thru 099	Intended for UL Listing and CSA Certified.
100 thru 299	Intended for UL Recognition and CSA Certified.
300 thru 399	Not Eligible for either UL Listing, UL Recognition, or CSA Certified.

Condensing Unit Family Series

Type of Design

Type	Code
Air Cooled	A
No condenser	N
Water Cooled	W
Evaporating Pan Base	E
Discus	D

Application Temperature*

Temperature Range	Code
High Temperature 45°F Max.; 0°F Min.	H
Medium Temperature 25°F Max.; -5°F Min.	M
Medium Temperature 25°F Max.; -25°F Min.	F
Low Temperature 0°F Max.; -40°F Min.	L
Extra Low Temperature -20°F Max.; -40°F Min.	E
Two Stage 0°F Max.; -40°F Min.	T
Two Stage (Extra Low) -30°F Max.; -80°F Min.	U
Commercial Application High & Med. Temperature Single Refrigerant	C
Dual Application R-22 HT, R-502 MT	D
Multiple Application R-12 H/MT, R-502 LT	B

*NOTE: Limited or extended range will be shown in performance data tables.

Typical Motor Rating

Nominal (HP)	Code
1/4	0025
1/3	0033
1/2	0050
3/4	0075
1	0100
1-1/2	0150
2	0200
2-1/2	0250
3	0300
3-1/2	0350
4	0400
5	0500
6	0600
7-1/2	0750
9	0900
10	1000
15	1500
20	2000
22	2200
25	2500
27	2700
30	3000
40	4000
50	5000
60	6000
70	7000
80	8000

NOTE: Left hand position may contain a letter indicating a revision (on units less than 10 HP).

Right hand position may contain the letter "Z" indicating a Glacier™ Scroll compressor.

Compressor Motor Protection

Type Protection	Code
External Inherent Protection- One Protector, (Line Break) Use with Contactor (single or three phase)	A
Internal Inherent Protection- One Protector, Use with Contactor. (single or three phase)	F
Internal Thermostat(s); and External Supplementary Protector(s). (Two for 3Ø, one for 1Ø.) Use with Contactor.	H
Internal Thermostat(s); and Three External Supplementary Protectors. Use with Contactor.	L
Internal Thermal Protectors-Electronic Sensors; and Control Module External. Use with contractor.	S
Internal Thermal Protectors-Electronic sensors: and control module external. Use with contactor. (For European use only).	W

Typical Electrical Codes

60 Hz.	50 Hz.	Code
115-1	100-1	A
230-1	200-1	B
208/230-3	200/220-3	C
460-3	380/400-3	D
575-3	500-3	E
-	115-1	F
-	230-1	G
208-1	200-1	H
-	208/230-1	I
265-1	220/240-1	J
208/230/460-3	200/400-3	K
-	210/240/380-3	L
-	380/420-3	M
230/460-3	200/400-3	N
All D.C. Ratings		O
-	200/380-3	P
-	200/240-3	R
-	220-1	S
-	200-1	T
200-3	-	U
208/230-1	200-1	V
-	200/220-3	W
Misc. A.C. Ratings		X
-	500-3	Y
-	220/240-1	Z
200-1	200-1	3
100-1	100-1	4
200/230-3	-	5
230-3	-	6

NOTE: When applicable, specific 50 Hz ratings (not necessarily identical to typical shown above) will be shown as alternate on 60 Hz rated models.

M-LINE CONDENSING UNIT MODEL NUMBER NOMENCLATURE

1 Condenser Family Series
Indicates M-Line condensing unit series

3 Base Size

Code	Size
A	13” X 17” Steel
B	10” X 12” Steel
C	Custom Base
E	14-1/4” X 16” Copevap
F	Fractional HP
G	10” X 21” Steel
H	6-1/2” X 15-1/2” Steel
K	15-1/2” X 18” Steel
N	10” X 12” Copevap
P	11” X 20” Copevap
Y	10-1/4” X 14” Steel

6 7 8 Nominal HP

HP	Code
1/8	013
1/6	017
1/5	020 to 023
1/4	024 to 027
1/3	032 to 037
1/2	049 to 051
3/4	075
1	100

12 13 14 Common Bill of Material Variations

M X X X – X X X X – X X X – X X X

2 CFC & HCFC Construction & Refrigerant Indicator

R-12	R-22 R-502	Receiver	Fan Guard	BX	Power Cord
A	E	X	-	-	X
G	M	-	-	-	X
I	Y	X	-	X	-
J	D	-	-	X	-
K	P	X	X	-	X
L	Q	-	X	-	X
U	S	X	X	X	-
V	T	-	X	X	-

4 Temperature Application
H – High Temperature
M – Medium Temperature
L – Low Temperature

5 Hot Gas Evaporator Tube
P – Bare Copper Tube
O – No Tube
E – Epoxy Coated Copper Tube
M – Monel Tube

9 10 11 Voltage (Start Torque)

Code	Voltage
IAA	115-1-60 (High)
SAA	115-1-60 (Low)
CAA	115-1-60 (High)
IAV	208/230-1-60 (High)
CAV	208/230-1-60 (High)

HERMETIC AIR-COOLED CONDENSING UNITS
HIGH/MEDIUM TEMPERATURE

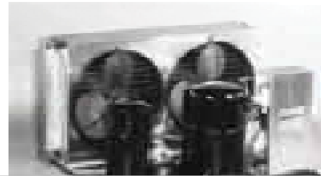
ILLCO #	Copeland #	Refrig.	H.P.	Volts/ PH	BTUH Capacity at 90°F Ambient Evaporator Temp (°F)								
					0	10	15	20	25	30	35	40	45
2835090	M2FH-0017-SAA-106	R-134a	1/6	115v/1	-	800	910	1030	1150	1280	1410	1560	1710
2835070	MMFH-0022-IAA-106	R-22	1/5	115v/1	-	1250	1380	1530	1680	1840	2010	2180	2360
2835095	M2FH-0024-SAA-106	R-134a	1/4	115v/1	-	1310	1470	1640	1810	2000	2190	2390	2600
2835093	M4FH-0022-IAA-106	R-404a	1/5	115v/1	-	1340	1460	1590	1720	1860	2010	2160	2310
2835015	MBFH-A026-IAA-072	R-12	1/4	115v/1	-	1480	1640	1810	1980	2160	2350	2550	2860
2835100*	M2FH-0026-IAA-072	R-134a	1/4	115v/1	-	1530	1700	1890	2080	2280	2490	2710	2940
2835040*	MCFH-0027-IAA-272	R-22	1/4	115v/1	-	1910	2130	2360	2600	2850	3110	3380	3660
2835350*	M4FH-0025-IAA-272	R-404A	1/4	115v/1	-	1890	2060	2230	2430	2620	2850	3070	3270
2835020*	MBFS-0033-IAA-272	R-12	1/3	115v/1	-	1820	2040	2270	2510	2770	3030	3310	3600
2835110*	M2FH-A033-IAA-272	R-134a	1/3	115v/1	-	1870	2070	2400	2710	3010	3300	3580	3870
2835045*	MCFH-0036-IAA-272	R-22	1/3	115v/1	-	2270	2550	2830	3140	3460	3790	4140	4500
2835560*	M4FH-A036-IAA-272	R-404a	1/3	115v/1	-	2550	2810	3090	3370	3670	3990	4310	4650
2835048	MCFH-0049-CAA-109	R-22	1/2	115v/1	-	3090	3460	3840	4250	4680	5130	5600	6090
2835049*	MCFH-0049-CAV-272	R-22	1/2	115v/1	-	3090	3460	3840	4250	4680	5130	5600	6090
2835025*	MBFH-0050-IAA-272	R-12	1/2	115v/1	-	2860	3230	3620	4030	4470	4920	5410	5910
2835570*	M4FH-0050-CAA-272	R-404a	1/2	115v/1	-	3320	3660	4010	4380	4770	5180	5600	6040
2835120*	M2FH-0050-IAA-272	R-134a	1/2	115v/1	-	2950	3350	3780	4230	4710	5210	5740	6290
2835130*	M2FH-0056-IAA-272	R-134a	1/2	115v/1	-	3240	3680	4140	4630	5150	5690	6270	6870
2835055*	MCFH-0056-IAA-272	R-22	1/2	115v/1	-	3610	4020	4470	4950	5480	6070	6720	7440
2835056*	MCFH-0056-IAV-272	R-22	1/2	115v/1	-	3610	4020	4470	4950	5480	6070	6720	7440
2832050	FBAM-B050-IAA-201	R-12	1/2	115v/1	2990	3660	4030	4420	4840	-	-	-	-
2835730	FJAF-A056-IAA-201	R-404a	1/2	115v/1	3030	3940	4450	5010	5630	-	-	-	-
2832420	FTAH-B074-IAA-201	R-134a	3/4	115v/1	-	4130	4675	5220	5860	6500	7260	8020	8880
2832422	FTAH-B074-IAV-201	R-134a	3/4	230v/1	-	4130	4675	5220	5860	6500	7260	8020	8880
2832053	FBAM-A075-IAV-001	R-12	3/4	230v/1	4050	5040	5590	6100	6640	-	-	-	-
2832900	F3AH-A078-IAA-001	R-22	3/4	115v/1	-	4480	5120	5760	6450	7130	7870	8660	9440
2832902	F3AH-A078-IAV-001	R-22	3/4	230v/1	-	4480	5120	5760	6450	7130	7870	8660	9440
2832905	F3AH-A078-IAV-201	R-22	3/4	230v/1	-	4480	5120	5760	6450	7130	7870	8660	9440
2835750	FJAF-B078-CAA-001	R-404A	3/4	115v/1	4060	5170	5760	6380	7020	-	-	-	-
2835755	M4FF-0075-CAV-020	R-404A	3/4	230v/1	4000	4500	5010	5550	6090	6660	-	-	-
2832062	FJAF-B078-CAV-001	R-404A	3/4	230v/1	4060	5170	5760	6380	7020	-	-	-	-
2832440	FTAH-A101-CFV-001	R-134a	1	230v/1	-	4990	5860	6820	7770	8780	9790	10800	11800
2832912	F3AH-A100-CAV-001	R-22	1	230v/1	-	5260	5960	6700	7480	8320	9220	10200	11200
2832150	FJAF-0106-CAV-020	R-404A	1	230v/1	5440	6760	7450	8170	8910	-	-	-	-
2832932	F3AM-A105-CFV-001	R-22	1	230v/1	-	6610	7570	8540	9600	-	-	-	-
2832934	F3AM-A105-TFC-001	R-22	1	230v/3	-	6610	7570	8540	9600	-	-	-	-
2832155	FJAM-A125-TFC-001	R-404a	1-1/4	230v/3	5390	6840	7620	8450	9340	-	-	-	-
2832460	FTAH-A125-CFV-001	R-134a	1-1/4	230v/1	-	7170	8420	9770	11200	12800	14400	16200	18000
2832470	FTAH-A150-CFV-001	R-134a	1-1/2	230v/1	-	-	10000	11600	13300	15100	17000	19000	21100
2832475	FTAH-A150-TFC-001	R-134a	1-1/2	230v/3	-	-	10000	11600	13300	15100	17000	19000	21100
2832650	F3AD-B151-CFV-020	R-22	1-1/2	230v/1	-	8350	9550	10800	12100	13550	15000	16600	18300
2832652	F3AD-B151-TFC-020	R-22	1-1/2	230v/3	-	8350	9550	10800	12100	13550	15000	16600	18300
2832653	F3AD-B151-TFD-020	R-22	1-1/2	460v/3	-	8350	9550	10800	12100	13550	15000	16600	18300
2832160	FJAM-A150-CFV-001	R-404A	1-1/2	230v/1	7300	9600	10900	12100	13500	-	-	-	-
2832162	FJAM-A150-TFC-001	R-404A	1-1/2	230v/3	7300	9600	10900	12100	13500	-	-	-	-
2832660	F3AD-B201-CFV-020	R-22	2	230v/1	-	11400	13000	14550	16200	17900	19750	21600	23600
2832662	F3AD-B201-TFC-020	R-22	2	230v/3	-	11400	13000	14550	16200	17900	19750	21600	23600
2832170	FJAM-A200-TFC-001	R-404a	2	230v/3	8770	11600	13000	14500	16100	-	-	-	-
2832180	FJAM-A225-CFV-001	R-404A	2-1/4	230v/1	11400	14300	15900	17500	19200	-	-	-	-
2832182	FJAM-A225-TFC-001	R-404A	2-1/4	230v/3	11400	14300	15900	17500	19200	-	-	-	-
2832670	F3AD-B225-CFV-015	R-22	2-1/4	230v/1	-	12500	14300	16200	18100	20000	22000	23900	25900
2832672	F3AD-B225-TFC-015	R-22	2-1/4	230v/3	-	12500	14300	16200	18100	20000	22000	23900	25900
2832673	F3AD-B225-TFC-020	R-22	2-1/4	230v/3	-	12500	14300	16200	18100	20000	22000	23900	25900
2832675	F3AD-B225-TFD-020	R-22	2-1/4	460v/3	-	12500	14300	16200	18100	20000	22000	23900	25900
2832680	F3AD-B301-CFV-015	R-22	3	230v/1	-	16810	19260	21850	24550	27360	30270	33230	36300
2832682	F3AD-B301-TFC-015	R-22	3	230v/3	-	16810	19260	21850	24550	27360	30270	33230	36300
2832690	F3AD-B325-CFV-015	R-22	3-1/4	230v/1	-	18300	20900	23600	26500	29400	32500	35900	39400
2832692	F3AD-B325-TFC-015	R-22	3-1/4	230v/3	-	18300	20900	23600	26500	29400	32500	35900	39400
2832693	F3AD-B325-TFC-020	R-22	3-1/4	230v/3	-	18300	20900	23600	26500	29400	32500	35900	39400
2832695	F3AD-B325-TFD-020	R-22	3-1/4	460v/3	-	18300	20900	23600	26500	29400	32500	35900	39400
2832200	FJAM-A300-CFV-001	R-404A	3	230v/1	14100	18500	20800	23100	25400	-	-	-	-
2832202	FJAM-A300-TFC-001	R-404A	3	230v/3	14100	18500	20800	23100	25400	-	-	-	-
2832702	F3AD-B401-CFV-015	R-22	4	230v/1	-	25000	28950	32850	36900	41050	45350	49750	54350
2832712	F3AD-A501-TFC-010	R-22	5	230v/3	-	29800	34000	38200	42700	47400	52350	57500	62950
2832713	F3AD-A501-TFC-001	R-22	5	230v/3	-	29800	34000	38200	42700	47400	52350	57500	62950
2832715	F3AD-A501-TFD-010	R-22	5	460v/3	-	29800	34000	38200	42700	47400	52350	57500	62950

***These condensing units come with a factory installed liquid line drier and sight glass.**

HERMETIC AIR-COOLED CONDENSING UNITS
HIGH/MEDIUM TEMPERATURE

Copeland #	BTUH Capacity at 100°F Ambient Evaporator Temp (°F)									BTUH Capacity at 110°F Ambient Evaporator Temp (°F)								
	0	10	15	20	25	30	35	40	45	0	10	15	20	25	30	35	40	45
M2FH-0017	-	730	830	930	1050	1170	1300	1440	1580	-	660	760	840	950	1070	1190	1320	1460
MMFH-0022	-	1140	1270	1400	1550	1700	1870	2030	2190	-	1050	1170	1300	1440	1590	1740	1890	-
M2FH-0024	-	1230	1390	1530	1710	1870	2050	2230	2420	-	1140	1290	1420	1590	1740	1920	-	-
M4FH-0022	-	1230	1340	1460	1590	1720	1870	2010	2150	-	1130	1230	1350	1480	1610	1740	-	-
MBFH-A026	-	1390	1540	1660	1820	1990	2190	2390	2560	-	1310	1430	1530	1670	1820	2000	-	-
M2FH-0026	-	1400	1570	1710	1890	2080	2300	2520	2710	-	1330	1470	1570	1740	1910	2100	-	-
MCFH-0027	-	1710	1930	2150	2380	2610	2860	3130	3400	-	1540	1750	1970	2180	2410	-	-	-
M4FH-0025	-	1700	1870	2030	2220	2400	2620	2840	3030	-	1530	1690	1840	2020	2190	-	-	-
MBFS-0033	-	1670	1880	2090	2330	2550	2820	3060	3290	-	1500	1700	1910	2130	2340	2590	-	-
M2FH-A033	-	1690	1920	2150	2420	2670	2970	3230	3490	-	1520	1740	1970	2215	2440	2720	-	-
MCFH-0036	-	2080	2330	2600	2890	3180	3500	3830	4170	-	1880	2120	2370	2640	2930	3230	3550	-
M4FH-A036	-	2330	2580	2840	3100	3370	3660	3960	4290	-	2110	2340	2590	2840	3100	3390	-	-
MCFH-0049	-	2910	3260	3630	4010	4400	4810	5250	5720	-	2690	3020	3370	3750	4150	4550	-	-
MCFH-0049	-	2910	3260	3630	4010	4400	4810	5250	5720	-	2690	3020	3370	3750	4150	4550	-	-
MBFH-0050	-	2690	3100	3400	3710	4180	4590	5050	5600	-	2440	2830	3120	3430	3880	4270	-	-
M4FH-0050	-	2900	3220	3560	3910	4280	4680	5080	5520	-	2660	2940	3240	3530	3850	4190	-	-
M2FH-0050	-	2730	3170	3500	3860	4360	4820	5340	5940	-	2470	2890	3210	3560	4060	-	-	-
M2FH-0056	-	3010	3430	3880	4220	4830	5280	5820	6480	-	2750	3120	3520	3870	4450	4920	-	-
MCFH-0056	-	3270	3360	4070	4520	5020	5580	6190	6880	-	2960	3320	3710	4130	4610	5140	5730	-
MCFH-0056	-	3270	3360	4070	4520	5020	5580	6190	6880	-	2960	3320	3710	4130	4610	5140	5730	-
FBAM-B050	2920	3610	3990	4410	4860	-	-	-	-	2680	3330	3700	4090	-	-	-	-	-
FJAF-A056	2570	3340	3790	4920	4840	-	-	-	-	2190	2790	3160	3580	4070	-	-	-	-
FTAH-B074	-	3660	4170	4670	5260	5840	6540	7230	8010	-	3220	3690	4160	4680	5200	5830	6450	7150
FTAH-B074	-	3660	4170	4670	5260	5840	6540	7230	8010	-	3220	3690	4160	4680	5200	5830	6450	7150
FBAM-A075	-	4620	5050	5540	6060	-	-	-	-	-	-	4560	-	-	-	-	-	-
F3AH-A078	-	4020	4620	5220	5860	6510	7190	7930	8670	-	3540	4100	4660	5270	5870	6520	7200	7890
F3AH-A078	-	4020	4620	5220	5860	6510	7190	7930	8670	-	3540	4100	4660	5270	5870	6520	7200	7890
F3AH-A078	-	4020	4620	5220	5860	6510	7190	7930	8670	-	3540	4100	4660	5270	5870	6520	7200	7890
FJAF-B078	3550	4570	5110	5680	6260	-	-	-	-	3040	3970	4460	4970	5500	-	-	-	-
M4FF-0075	3540	4010	4470	4960	5460	5980	-	-	-	3120	3540	3960	4400	4850	5310	-	-	-
FJAF-B078	3550	4570	5110	5680	6260	-	-	-	-	3040	3970	4460	4970	5500	-	-	-	-
FTAH-A101	-	4330	5160	6060	6970	7930	8900	9850	10800	-	3680	4450	5310	6160	7080	8000	-	-
F3AH-A100	-	4740	5440	6140	6910	7670	8490	9360	10200	-	4230	4870	5520	6210	6900	7650	-	-
FJAM-A106	4780	5970	6580	7230	7900	-	-	-	-	4120	5180	5720	6290	6890	-	-	-	-
F3AM-A105	3950	5750	6700	7640	8650	-	-	-	-	3050	4940	5830	6720	7670	-	-	-	-
F3AM-A105	3950	5750	6700	7640	8650	-	-	-	-	3050	4940	5830	6720	7670	-	-	-	-
FJAM-A125	4770	6070	6750	7470	8250	-	-	-	-	4070	5230	5820	6440	7100	-	-	-	-
FTAH-A125	-	6190	7360	8620	9970	11400	12900	14600	16300	-	5230	6330	7500	8750	10100	11500	1300	14500
FTAH-A150	-	7370	8760	10200	11800	13500	15200	17100	19000	-	6220	7520	8900	10400	11900	13500	-	-
FTAH-A150	-	7370	8760	10200	11800	13500	15200	17100	19000	-	6220	7520	8900	10400	11900	13500	-	-
F3AD-A151	-	7540	8340	9580	10900	12200	13600	15000	16500	-	6730	7420	8540	9770	11000	12300	13700	-
F3AD-A151	-	7540	8340	9580	10900	12200	13600	15000	16500	-	6730	7420	8540	9770	11000	12300	13700	-
F3AD-A151	-	7540	8340	9580	10900	12200	13600	15000	16500	-	6730	7420	8540	9770	11000	12300	13700	-
FJAM-A150	7150	8200	9490	10600	12000	-	-	-	-	5070	6860	8060	8810	10300	-	-	-	-
FJAM-A150	7150	8200	9490	10600	12000	-	-	-	-	5070	6860	8060	8810	10300	-	-	-	-
F3AD-A201	-	9880	11400	12800	14600	16300	18200	20100	22000	-	8950	10300	11700	13400	15000	16800	18600	-
F3AD-A201	-	9880	11400	12800	14600	16300	18200	20100	22000	-	8950	10300	11700	13400	15000	16800	18600	-
FJAM-A200	7500	10100	11400	12800	14200	-	-	-	-	6230	8530	9740	11000	12300	-	-	-	-
FJAM-A225	9750	12600	14000	15500	16900	-	-	-	-	8530	10900	12100	13400	14600	-	-	-	-
FJAM-A225	9750	12600	14000	15500	16900	-	-	-	-	8530	10900	12100	13400	14600	-	-	-	-
F3AD-A225	-	10500	12300	14000	15800	17600	19400	21300	23100	-	9350	11000	12600	14200	15800	17500	-	-
F3AD-A225	-	10500	12300	14000	15800	17600	19400	21300	23100	-	9350	11000	12600	14200	15800	17500	-	-
F3AD-A225	-	10500	12300	14000	15800	17600	19400	21300	23100	-	9350	11000	12600	14200	15800	17500	-	-
F3AD-A225	-	10500	12300	14000	15800	17600	19400	21300	23100	-	9350	11000	12600	14200	15800	17500	-	-
F3AD-B301	-	15000	17340	19790	22350	24990	27710	30480	33330	-	13250	15490	17820	20230	22710	25250	27830	-
F3AD-B301	-	15000	17340	19790	22350	24990	27710	30480	33330	-	13250	15490	17820	20230	22710	25250	27830	-
F3AD-B325	-	16500	19000	21600	24200	27000	29900	32900	36200	-	14800	17200	19600	22000	24600	27200	-	-
F3AD-B325	-	16500	19000	21600	24200	27000	29900	32900	36200	-	14800	17200	19600	22000	24600	27200	-	-
F3AD-B325	-	16500	19000	21600	24200	27000	29900	32900	36200	-	14800	17200	19600	22000	24600	27200	-	-
F3AD-B325	-	16500	19000	21600	24200	27000	29900	32900	36200	-	14800	17200	19600	22000	24600	27200	-	-
FJAM-A300	12000	16000	18000	20100	22200	-	-	-	-	9900	13400	15200	17100	19000	-	-	-	-
FJAM-A300	12000	16000	18000	20100	22200	-	-	-	-	9900	13400	15200	17100	19000	-	-	-	-
F3AD-A401	-	21600	25800	30000	34300	38600	43200	47800	51900	-	18900	22800	26700	30000	35000	39300	43600	47700
F3AD-A501	-	28000	32100	36300	40600	45100	49700	54700	59600	-	24900	28900	33000	37100	41400	45800	50500	55200
F3AD-A501	-	28000	32100	36300	40600	45100	49700	54700	59600	-	24900	28900	33000	37100	41400	45800	50500	55200
F3AD-A501	-	28000	32100	36300	40600	45100	49700	54700	59600	-	24900	28900	33000	37100	41400	45800	50500	55200

HERMETIC AIR-COOLED CONDENSING UNITS HIGH/MEDIUM TEMPERATURE



Copeland #	Compressor	Oil Type	Overall Unit Dimensions (in.)			Connections		Minimum Circuit Ampacity				Pump Down Capcity	Shipping Weight (LBS)
			L	W	H	Suction	Liquid	115-1	230-1	230-3	460-3		
M2FH-0017	ARB13C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	4.2 - 15	-	-	-	-	33
MMFH-0022	ARB21C3	AB	13.8	11.8	9.7	3/8 F	1/4 F	6.4 - 15	-	-	-	-	36
M2FH-0024	ARE25C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	6.3 - 15	-	-	-	-	36
M4FH-0022	ASB12C3E	POE	13.8	11.4	9.7	3/8 F	1/4 F	7.3-15	-	-	-	-	37
MBFH-A026	ARE27C3	AB	13.8	11.8	9.7	3/8 F	1/4 F	6.9 - 15	-	-	-	2.5#	41
M2FH-0026	ARE27C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	6.9 - 15	-	-	-	2.3#	41
MCFH-0027	ARE36C3	AB	13.8	11.8	9.7	3/8 F	1/4 F	9.1 - 15	-	-	-	2.5#	42
M4FH-0025	ASE19C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	10.7 - 15	-	-	-	2.2#	41
MBFS-0033	ARE37C3	AB	13.8	11.8	9.7	3/8 F	1/4 F	9.7 - 15	-	-	-	2.8#	46
M2FH-A033	ARE37C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	9.9 - 15	4.9 - 15	-	-	2.5#	46
MCFH-0036	ARE43C3	AB	16.2	13.1	11.8	3/8 F	1/4 F	9.8 - 15	-	-	-	3.6#	47
M4FH-A036	ASE24C3E	POE	16.1	12.7	11.8	3/8 F	1/4 F	8.4 - 15	5.9 - 15	-	-	3.3#	44
MCFH-0049	ARE59C3	AB	16.2	13.1	11.8	3/8 F	1/4 F	10.9 - 15	5.6 - 15	-	-	4.0#	54
MCFH-0049	ARE59C3	AB	16.2	13.1	11.8	3/8 F	1/4 F	10.9 - 15	5.6 - 15	-	-	4.0#	54
MBFH-0050	ART62C1	AB	16.2	13.1	11.8	1/2 F	1/4 F	14.1 - 20	-	-	-	4.1#	55
M4FH-0050	ASE32C3E	POE	16.1	12.7	11.8	3/8 F	1/4 F	6.7 - 15	-	-	-	3.7#	50
M2FH-0050	ART62C1E	POE	16.2	13.1	11.8	3/8 F	1/4 F	14.6 - 20	7.4 - 15	-	-	4.1#	55
M2FH-0056	ART64C1E	POE	17.4	14.4	11.8	3/8 F	1/4 F	15.5 - 20	8.8 - 15	-	-	4.3#	66
MCFH-0056	ART69C1	AB	17.4	14.4	11.8	3/8 F	1/4 F	18.0 - 25	6.7 - 15	-	-	4.1#	65
MCFH-0056	ART69C1	AB	17.4	14.4	11.8	3/8 F	1/4 F	18.0 - 25	6.7 - 15	-	-	4.1#	65
FBAM-B050	RS40C2	AB	24.0	16.9	12.9	5/8 F	3/8 F	13.5 - 20	1.7 - 15	-	-	4.1#	67
FJAF-A056	RST43C2E	POE	17.5	14.3	12.1	5/8 F	1/4 F	14.3 - 20	8.1 - 15	-	-	4.3#	51
FTAH-B074	RR81C2E	POE	17.5	14.3	12.0	5/8 F	1/4 F	20.7 - 30	12.3 - 20	-	-	5.1#	79
FTAH-B074	RR81C2E	POE	17.5	14.3	12.0	5/8 F	1/4 F	20.7 - 30	12.3 - 20	-	-	5.1#	79
FBAM-A075	RS54C2	AB	24.0	16.9	12.9	5/8 F	3/8 F	16.8 - 25	9.7 - 15	-	-	8.6#	106
F3AH-A078	RS47C2	MIN	24.0	16.9	13.1	5/8 F	3/8 F	19.9 - 30	10.1 - 15	-	-	6.1#	102
F3AH-A078	RS47C2	MIN	24.0	16.9	13.1	5/8 F	3/8 F	19.9 - 30	10.1 - 15	-	-	6.1#	102
F3AH-A078	RS47C2	MIN	24.0	16.9	13.1	5/8 F	3/8 F	19.9 - 30	10.1 - 15	-	-	6.1#	102
FJAF-B078	RST55C2E	POE	24.0	16.9	13.1	5/8 F	3/8 F	18.5 - 30	8.8 - 15	-	-	7.2#	133
M4FF-0075	RST55C1E	POE	17.4	14.0	11.8	1/2 S	1/4 F	-	9.7 - 15	-	-		133
FJAF-B078	RS55C2E	POE	24.0	16.9	13.1	5/8 F	3/8 F	18.5 - 25	8.8 - 15	-	-	7.2#	96
FTAH-A101	CS10K6E	POE	24.0	16.8	15.9	5/8 F	3/8 F	-	14.8 - 20	10.5 - 15	5.2 - 15	8.4#	130
F3AH-A100	RRG4-0100	MIN	24.0	16.9	13.1	5/8 F	3/8 F	-	12.7 - 20	-	-	8.3#	112
FJAM-A106	RST64C2E	POE	24.1	18.3	16.9	7/8 S	3/8 F	-	12.5 - 15	-	-	7.9#	106
F3AM-A105	RS70C1	MIN	24.1	18.3	16.2	7/8 S	3/8 F	-	11.7 - 15	8.8 - 15	-	14.7#	138
F3AM-A105	RS70C1	MIN	24.1	18.3	16.2	7/8 S	3/8 F	-	11.7 - 15	8.8 - 15	-	14.7#	138
FJAM-A125	RS70C1	POE	24.0	18.3	16.2	7/8 S	3/8 F	-	11.7 - 15	8.8 - 15	-	12.8#	124
FTAH-A125	CS14K6E	POE	24.0	18.4	16.3	7/8 S	3/8 F	-	18.4 - 25	14.3 - 20	7.5 - 15	9.2#	140
FTAH-A150	CS18K6E	POE	24.0	18.4	16.3	7/8 S	3/8 F	-	21.4 - 35	15.9 - 20	7.5 - 15	9.2#	153
FTAH-A150	CS18K6E	POE	24.0	18.4	16.3	7/8 S	3/8 F	-	21.4 - 35	15.9 - 20	7.5 - 15	9.2#	153
F3AD-A151	CRA1-0150	MIN	24.1	18.3	16.9	7/8 S	3/8 F	-	16.4 - 20	14.5 - 20	6.7 - 15	9.1#	140
F3AD-A151	CRA1-0150	MIN	24.1	18.3	16.9	7/8 S	3/8 F	-	16.4 - 20	14.5 - 20	6.7 - 15	9.1#	140
F3AD-A151	CRA1-0150	MIN	24.1	18.3	16.9	7/8 S	3/8 F	-	16.4 - 20	14.5 - 20	6.7 - 15	9.1#	140
FJAM-A150	CS10K6E	POE	24.1	18.3	16.9	7/8 S	3/8 F	-	16.5 - 20	12.2 - 15	6.1 - 15	12.8#	144
FJAM-A150	CS10K6E	POE	24.1	18.3	16.9	7/8 S	3/8 F	-	16.5 - 20	12.2 - 15	6.1 - 15	12.8#	144
F3AD-A201	CRD1-0200	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	19.1 - 30	13.2 - 15	6.8 - 15	17.8#	215
F3AD-A201	CRD1-0200	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	19.1 - 30	13.2 - 15	6.8 - 15	17.8#	215
FJAM-A200	CS12K6E	POE	25.2	34.1	18.9	7/8 S	3/8 F	-	15.9 - 20	11.7 - 15	-	14.3#	170
FJAM-A225	CS14K6E	POE	25.1	34.1	18.9	7/8 S	3/8 F	-	17.8 - 25	13.7 - 20	7.4 - 15	14.3#	220
FJAM-A225	CS14K6E	POE	25.1	34.1	18.9	7/8 S	3/8 F	-	17.8 - 25	13.7 - 20	7.4 - 15	14.3#	220
F3AD-A225	CRE2-0225	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	21.4 - 30	15.6 - 20	7.1 - 15	17.8#	215
F3AD-A225	CRE2-0225	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	21.4 - 30	15.6 - 20	7.1 - 15	17.8#	215
F3AD-A225	CRE2-0225	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	21.4 - 30	15.6 - 20	7.1 - 15	17.8#	215
F3AD-A225	CRE2-0225	MIN	25.1	34.1	19.1	7/8 S	3/8 F	-	21.4 - 30	15.6 - 20	7.1 - 15	17.8#	215
F3AD-B301	CR37KQ	MIN	25.1	34.1	19.1	1-1/8 S	3/8 F	-	28.9 - 40	19.7 - 20	10.2 - 15	20.0#	239
F3AD-B301	CR37KQ	MIN	25.1	34.1	19.1	1-1/8 S	3/8 F	-	28.9 - 40	19.7 - 20	10.2 - 15	20.0#	239
F3AD-B325	CR41KQ	MIN	25.2	34.1	18/.9	1-1/8 S	3/8 F	-	30.1 - 40	22.2 - 25	10.6 - 15	20.0#	239
F3AD-B325	CR41KQ	MIN	25.2	34.1	18/.9	1-1/8 S	3/8 F	-	30.1 - 40	22.2 - 25	10.6 - 15	20.0#	239
F3AD-B325	CR41KQ	MIN	25.2	34.1	18/.9	1-1/8 S	3/8 F	-	30.1 - 40	22.2 - 25	10.6 - 15	20.0#	239
F3AD-B325	CR41KQ	MIN	25.2	34.1	18/.9	1-1/8 S	3/8 F	-	30.1 - 40	22.2 - 25	10.6 - 15	20.0#	239
FJAM-A300	CS18K6E	POE	25.1	34.1	18.9	1-1/8 S	3/8 F	-	25.8 - 35	18.8 - 20	9.1 - 15	16.3#	236
FJAM-A300	CS18K6E	POE	25.1	34.1	18.9	1-1/8 S	3/8 F	-	25.8 - 35	18.8 - 20	9.1 - 15	16.3#	236
F3AD-A401	CRM3-0400	MIN	28.6	44.1	26.9	1-1/8 S	1/2 F	-	41.9 - 60	25.9 - 40	13.2 - 15	31.5#	373
F3AD-A501	CRN5-0500	MIN	28.6	44.1	26.9	1-1/8 S	1/2 F	-	46.4 - 70	30.3 - 45	14.4 - 20	31.5#	373
F3AD-A501	CRN5-0500	MIN	28.6	44.1	26.9	1-1/8 S	1/2 F	-	46.4 - 70	30.3 - 45	14.4 - 20	31.5#	373
F3AD-A501	CRN5-0500	MIN	28.6	44.1	26.9	1-1/8 S	1/2 F	-	46.4 - 70	30.3 - 45	14.4 - 20	31.5#	373

HERMETIC AIR-COOLED CONDENSING UNITS

LOW TEMPERATURE

ILLCO #	Copeland #	Refrig.	H.P.	Volts /Phase	BTUH Capacity at 90°F Ambient Evaporator Temp (°F)								
					-30	-25	-20	-15	-10	0	10	15	20
2835220	M2FL-0023-IAA-201	R-134a	1/5	115v/1	-	460	560	650	760	990	-	-	-
2835230	M2FL-A025-IAA-001	R-134a	1/4	115v/1	-	720	820	940	1070	1370	-	-	-
2835020	MBFS-0033-IAA-201	R-12	1/4	115v/1	-	860	990	1130	1270	1550	-	-	-
2835036	MBFL-0034-IAA-001	R-12	1/3	115v/1	-	1160	1330	1510	1700	2080	-	-	-
2835280	M4FL-0033-IAA-001	R-404A	1/3	115v/1	-	910	1080	1260	1440	1830	-	-	-
2835037	MBFL-0050-IAA-201	R-12	1/2	115v/1	-	1620	1780	2140	2440	2980	-	-	-
2832520	FTAL-A050-IAA-201	R-134a	1/2	115v/1	-	1210	1540	1900	2270	3070	-	-	-
2835290	M4FL-0040-IAA-201	R-404A	1/3	115v/1	-	1320	1550	1790	2040	2560	-	-	-
2835300	M4FL-0051-IAA-201	R-404A	1/2	115v/1	-	1460	1760	2080	2430	3160	-	-	-
2835310	M4FL-0067-CFA-201	R-404A	3/4	115v/1	-	2190	2520	2890	3290	4200	-	-	-
2832055	FJAF-A075-IAV-001	R-404A	3/4	230v/1	-	2340	2830	3320	4180	5040	-	-	-
2832070	FJAL-A101-CAV-001	R-404A	1	230v/1	-	3370	3950	4520	5150	6450	-	-	-
2832071	FJAL-A101-TFC-001	R-404A	1	230v/3	-	3370	3950	4520	5150	6450	-	-	-
2832072	FJAL-A103-CFV-001	R-404A	1	230v/1	2380	2950	3570	4230	4950	6500	-	-	-
2832079	FJAL-B200-CFV-001	R-404A	2	230v/1	4100	5040	6060	7130	8260	10500	-	-	-
2832080	FJAL-B200-TFC-001	R-404A	2	230v/3	4100	5040	6060	7130	8260	10500	-	-	-
2832083	FJAL-A225-TFC-001	R-404A	2-1/4	230v/3	4580	5620	6780	8060	9440	12400	-	-	-
2832095	FJAL-B301-CFV-010	R-404A	3	230v/1	6890	8540	10370	12340	14430	18810	-	-	-
2832099	FJAL-B301-TFC-010	R-404A	3	230v/1	6890	8540	10370	12340	14430	18810	-	-	-
2832103	FJAL-A390-TFC-010	R-404A	4	230v/3	8700	10400	12200	14000	16000	20000	-	-	-

Copeland #	BTUH Capacity at 100°F Ambient Evaporator Temp (°F)									BTUH Capacity at 110°F Ambient Evaporator Temp (°F)								
	-30	-25	-20	-15	-10	0	10	15	20	-30	-25	-20	-15	-10	0	10	15	20
M2FL-0023	-	430	520	620	730	950	-	-	-	-	380	480	580	680	890	-	-	-
M2FL-A025	-	670	760	870	1000	1280	-	-	-	-	-	700	800	920	1190	-	-	-
MBFS-0033	-	790	920	1050	1180	1450	-	-	-	-	710	840	960	1100	1370	-	-	-
MBFL-0034	-	1050	1220	1390	1570	1920	-	-	-	-	960	1120	1280	1430	1760	-	-	-
M4FL-0033	-	750	910	1070	1240	1600	-	-	-	-	570	720	870	1040	1390	-	-	-
MBFL-0050	-	1430	1690	1950	2220	2740	-	-	-	-	1270	1510	1750	1990	2480	-	-	-
FTAL-A050	-	920	1240	1650	2000	2720	-	-	-	-	690	960	1400	1740	2410	-	-	-
M4FL-0040	-	1100	1310	1530	1770	2240	-	-	-	-	850	1060	1280	1500	1970	-	-	-
M4FL-0051	-	1100	1310	1530	1770	2240	-	-	-	-	970	1210	1480	1770	2410	-	-	-
M4FL-0067	-	1960	2260	2590	2960	3770	-	-	-	-	-	2000	2310	2650	3410	-	-	-
FJAF-A075	-	1980	2440	2900	3360	4310	-	-	-	-	1620	2040	2470	2900	3780	-	-	-
FJAL-A101	-	2920	3450	3980	4560	5740	-	-	-	-	-	-	3420	3940	4990	-	-	-
FJAL-A101	-	2920	3450	3980	4560	5740	-	-	-	-	-	-	3420	3940	4990	-	-	-
FJAL-A103	1930	2430	2970	3550	4180	5540	-	-	-	1510	1920	2370	2850	3380	4540	-	-	-
FJAL-B200	3410	4250	5170	6140	7160	9170	-	-	-	-	3520	4310	5160	6060	7840	-	-	-
FJAL-B200	3410	4250	5170	6140	7160	9170	-	-	-	-	3520	4310	5160	6060	7840	-	-	-
FJAL-A225	3790	4730	5790	6960	8230	10940	-	-	-	3080	3900	4850	5890	7030	9470	-	-	-
FJAL-B301	5870	7350	9000	10790	12710	16740	-	-	-	4920	6220	7680	9280	11010	14670	-	-	-
FJAL-B301	5870	7350	9000	10790	12710	16740	-	-	-	4920	6220	7680	9280	11010	14670	-	-	-
FJAL-A390	7280	8890	10500	12200	14000	17600	-	-	-	5900	7400	8910	10400	12000	15300	-	-	-

Copeland #	Compressor	Oil Type	Overall Unit Dimensions (in.)			Connections		Minimum Circuit Ampacity				Pump Down Capcity	Shipping Weight (LBS)
			L	W	H	Suction	Liquid	115-1	230-1	230-3	460-3		
M2FL-0023	AFB05C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	4.2 - 15	-	-	-	-	36
M2FL-A025	AFE10C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	6.9 - 15	-	-	-	2.5#	35
MBFS-0033	ARE37C3	AB	13.8	11.8	9.7	3/8 F	1/4 F	9.7 - 15	-	-	-	2.5#	47
MBFL-0034	AFT12C1	AB	16.2	12.4	9.7	3/8 F	1/4 F	7.0 - 15	-	-	-	3.3#	47
M4FL-0033	AFE11C3E	POE	13.8	11.8	9.7	3/8 F	1/4 F	7.7 - 15	-	-	-	2.2#	41
MBFL-0050	AFJ23C1	AB	16.2	13.2	11.9	1/2 F	1/4 F	9.9 - 15	-	-	-	4.1#	73
FTAL-A050	RF18C2E	POE	16.2	13.2	11.9	1/2 F	1/4 F	17.2 - 25	9.6 - 15	-	-	3.6#	64
M4FL-0040	AFE13C3E	POE	16.2	13.1	11.8	3/8 F	1/4 F	8.9 - 15	-	-	-	3.1#	52
M4FL-0051	AFT18C1E	POE	17.4	13.1	11.8	1/2 F	1/4 F	11.6 - 15	-	-	-	3.5#	65
M4FL-0067	AFT26C1E	POE	18.1	14.4	11.8	1/2 F	1/4 F	12.7 - 15	6.8 - 15	-	-	3.8#	65
FJAF-A075	RS64C2E	POE	24.0	16.9	13.1	5/8 F	3/8 F	21.0 - 30	12.7 - 20	-	-	4.8#	100
FJAL-A101	RS80C2E	POE	24.0	16.9	13.1	5/8 F	3/8 F	-	13.2 - 20	9.2 - 15	-	7.2#	120
FJAL-A101	RS80C2E	POE	24.0	16.9	13.1	5/8 F	3/8 F	-	13.2 - 20	9.2 - 15	-	7.2#	120
FJAL-A103	CF04K6E	POE	24.0	17.2	15.0	7/8 S	3/8 F	-	13.2 - 20	9.2 - 15	-	7.2#	125
FJAL-B200	CF06K6E	POE	24.0	19.5	16.3	7/8 S	3/8 F	-	17.2 - 25	11.7 - 15	6.2 - 15	7.9#	138
FJAL-B200	CF06K6E	POE	24.0	19.5	16.3	7/8 S	3/8 F	-	17.2 - 25	11.7 - 15	6.2 - 15	7.9#	138
FJAL-A225	CF06K6E	POE	25.2	34.1	18.9	7/8 S	3/8 F	-	19.0 - 25	14.6 - 15	7.8 - 15	14.3#	196
FJAL-B301	CF09K6E	POE	25.2	34.1	18.9	7/8 S	3/8 F	-	25.8 - 35	18.6 - 20	10.1 - 15	16.3#	217
FJAL-B301	CF09K6E	POE	25.2	34.1	18.9	7/8 S	3/8 F	-	25.8 - 35	18.6 - 20	10.1 - 15	16.3#	217
FJAL-A390	CF12K6E	POE	25.2	34.1	19.0	7/8 S	3/8 F	-	31.4 - 45	21.2 - 25	11.5 - 15	16.3#	232

CERTIFIED COPELAND PARTS

START CAPACITORS

ILLCO #	COPELAND #	VOLTS	µF
2882100	914-0006-00	330V	108-130
2882101	914-0006-01	330V	130-156
2882102	914-0006-02	330V	88-106
2882103	914-0006-03	330V	189-227
2882107	914-0006-07	250V	145-174
2882109	914-0006-09	330V	216-259
2882110	914-0006-10	330V	270-324
2882111	914-0006-11	330V	145-174
2882248	914-0008-48	220V	124-149
2882249	914-0008-49	115V	400-480
2882250	914-0008-50	220V	161-193
2882251	914-0008-51	220V	145-174
2882252	914-0008-52	125V	430-516
2882257	914-0008-57	115V	243-292
2882258	914-0008-58	115V	324-389
2882261	914-0008-61	220V	88-106
2882263	914-0008-63	115V	540-648
2882264	914-0008-64	220V	43-52
2882266	914-0008-66	220V	108-130
2882269	914-0008-69	115V	270-324
2882271	914-0008-71	220V	189-227
2882272	914-0008-72	250V	64-77
2882273	914-0008-73	250V	43-52
2882274	914-0008-74	330V	72-86
2882279	914-0008-79	165V	270-324
2882350	914-0032-00	110V	233-280
2882356	914-0032-06	125V	233-280
2882561	914-0036-01	250V	88-106
2882562	914-0036-02	250V	130-156
2882563	914-0036-03	330V	88-106
2882564	914-0036-04	250V	145-174
2882565	914-0036-05	330V	108-130
2882571	914-0036-11	220V	72-88
2882800	914-0053-00	165V	145-175
2882801	914-0053-01	110V	145-175
2882804	914-0053-04	165V	189-227

RUN CAPACITORS

ILLCO #	COPELAND #	VOLTS	µF
2882604	914-0037-04	370V	10
2882606	914-0037-06	370V	15
2882607	914-0037-07	370V	17.5
2882608	914-0037-08	370V	20
2882609	914-0037-09	370V	25
2882610	914-0037-10	370V	30
2882611	914-0037-11	370V	35
2882612	914-0037-12	370V	40
2882613	914-0037-13	440V	14
2882614	914-0037-14	440V	20
2882615	914-0037-15	440V	25
2882616	914-0037-16	440V	30
2882617	914-0037-17	440V	35
2882618	914-0037-18	440V	40
2882619	914-0037-19	440V	45
2882620	914-0037-20	440V	50
2882621	914-0037-21	440V	55
2882622	914-0037-22	440V	60
2882623	914-0037-23	480V	25
2882636	914-0037-36	370V	45
2882637	914-0037-37	370V	60
2882638	914-0037-38	370V	80
2882639	914-0037-39	370V	55
2882640	914-0037-40	370V	50

SHIPPING PLATE KITS

ILLCO #	COPELAND #	DESCRIPTION
2887800	998-0683-00	Shipping Plate Kit
2887801	998-0683-01	Shipping Plate Kit
2887802	998-0683-02	Shipping Plate Kit
2887803	998-0683-03	Shipping Plate Kit
2887804	998-0683-04	Shipping Plate Kit

RELAYS

ILLCO #	COPELAND #	DESCRIPTION
2883148	940-0001-48	Relay
2883149	940-0001-49	Relay
2883150	940-0001-50	Relay
2883151	940-0001-51	Relay
2883153	940-0001-53	Relay
2883154	940-0001-54	Relay
2883155	940-0001-55	Relay
2883156	940-0001-56	Relay
2883159	940-0001-59	Relay
2883160	940-0001-60	Relay
2883161	940-0001-61	Relay
2883162	940-0001-62	Relay
2883164	940-0001-64	Relay
2883166	940-0001-66	Relay
2883168	940-0001-68	Relay
2883169	940-0001-69	Relay
2883171	940-0001-71	Relay
2883179	940-0001-79	Relay
2883180	940-0001-80	Relay
2883187	940-0001-87	Relay
2883188	940-0001-88	Relay
2883380	940-0088-00	Relay
2883382	940-0088-02	Relay
2883383	940-0088-03	Relay
2883384	940-0088-04	Relay
2883385	940-0088-05	Relay
2883400	940-0090-00	Relay
2883401	940-0090-01	Relay
2883404	940-0090-04	Relay
2883406	940-0090-06	Relay
2883515	940-0115-00	Relay
2883550	940-0135-01	Current Sensing Relay
2883603	940-0140-03	Relay
2883604	940-0140-04	Relay
2882915	940-C016-03	Relay
2882940	940-C401-40	Relay
2882955	940-C411-61	Relay
2882957	940-C411-66	Relay
2882960	940-C411-71	Relay
2882973	940-C411-73	Relay
2882980	940-C411-80	Relay
2882982	940-C411-82	Relay
2882983	940-C411-83	Relay
2882985	940-C411-85	Relay
2883789	940-C411-89	Relay
2882991	940-C411-91	Relay

CAPACITOR AND RELAY KITS

ILLCO #	COPELAND #	DESCRIPTION
2888420	998-1014-20	Capacitor and Relay Kit
2888463	998-1014-63	Capacitor and Relay Kit
2888464	998-1014-64	Capacitor and Relay Kit
2888465	998-1014-65	Capacitor and Relay Kit
2888468	998-1014-68	Capacitor and Relay Kit
2886724	998-0514-24	Capacitor and Relay Kit
2886726	998-0514-26	Capacitor and Relay Kit
2886728	998-0514-28	Capacitor and Relay Kit

ADAPTER SEALS & KITS

ILLCO #	COPELAND #	DESCRIPTION
2885765	998-0069-00	Adapter Seal and Kit
2885766	998-0069-01	Adapter Seal and Kit

FAN MOTOR KITS

ILLCO #	COPELAND #	DESCRIPTION
2886950	998-0550-00	230V Fan Motor Kit
2886951	998-0550-01	460V Fan Motor Kit
2886953	998-0550-03	230V Fan Motor Kit
2886954	998-0550-04	460V Fan Motor Kit
2886955	998-0550-05	115V Fan Motor Kit
2886167	998-0167-00	Fan Motor Kit

FAN MOTORS

ILLCO #	COPELAND #	POWER	VOLTS
2880600	050-0108-00	1/3 HP	230V
2880650	050-0234-00	1/3 HP	230V
2880655	050-0238-00	1/4 HP	230V
2880660	050-0242-00	1/6 HP	230V
2880665	050-0244-00	50W	230V
2880666	050-0244-01	50W	115V
2880668	050-0244-03	50W	460V
2880675	050-0248-00	1/2 HP	230V
2880676	050-0248-01	1/2 HP	460V
2880680	050-0250-00	1/4 HP	230V
2880685	050-0251-00	1/6 HP	230V
2880705	050-0259-00	9W	115V
2880725	050-0264-01	50W	230V
2880727	050-0264-03	50W	460V
2880730	050-0265-00	1/6 HP	230V
2880580	050-C011-00	5W	115V
2880740	950-0344-00	50W	208-230V
2880741	950-0344-01	50W	115V
2880743	950-0344-03	50W	460V

FAN MOTOR MOUNTING KITS

ILLCO #	COPELAND #	DESCRIPTION
2887000	998-0574-00	Fan Motor Mounting Kit
2887003	998-0574-03	Fan Motor Mounting Kit
2887004	998-0574-04	Fan Motor Mounting Kit
2887005	998-0574-05	Fan Motor Mounting Kit
2887008	998-0574-08	Fan Motor Mounting Kit
2887011	998-0574-11	Fan Motor Mounting Kit
2887012	998-0574-12	Fan Motor Mounting Kit
2887015	998-0574-15	Fan Motor Mounting Kit
2880998	074-0794-00	Fan Motor Bracket
2880475	024-0196-00	Fan Guard

FAN BLADES

ILLCO #	COPELAND #	DESCRIPTION
2881100	083-0019-00	Fan Blade
2881107	083-0026-00	Fan Blade
2881110	083-0033-00	Fan Blade
2881120	083-0056-00	Fan Blade
2881124	083-0072-00	Fan Blade
2881137	083-0102-02	Fan Blade
2881140	083-0103-01	Fan Blade
2881150	083-0118-00	Fan Blade
2881160	083-0122-00	Fan Blade
2885880	998-0083-01	Fan Blade Kit
2885883	998-0083-04	Fan Blade Kit

MOUNTING KITS & BASE ADAPTERS

ILLCO #	COPELAND #	DESCRIPTION
2881701	527-0005-01	Mounting Kit
2881702	527-0005-02	Mounting Kit
2881703	527-0005-03	Mounting Kit
2881710	527-0006-00	Mounting Kit
2881715	527-0007-00	Mounting Kit
2881725	527-0009-00	Mounting Kit
2881767	527-0037-00	Mounting Kit
2881770	527-0040-00	Mounting Kit
2881780	527-0042-00	Mounting Kit
2881808	527-0044-08	Mounting Kit
2881810	527-0045-00	Mounting Kit
2881830	527-0057-00	Mounting Kit
2881835	527-0080-00	Mounting Kit
2881855	527-0105-00	Mounting Kit
2881860	527-0116-00	Mounting Kit
2881877	527-0157-00	Mounting Kit (ZF)
2885774	998-0074-00	Mounting Kit Base Adapter
2881610	522-0043-10	Base Adapter Kit
2881900	527-0174-00	Base Adapter Kit
2886940	998-0527-00	Base Adapter Kit 7X7
2886941	998-0527-01	Base Adapter Kit 4.8X8
2886942	998-0527-02	Base Adapter Kit 5X7
2886943	998-0527-03	Base Adapter Kit Weld Nuts
2886944	998-0527-04	Base Adapter Kit Weld Nuts
2882895	922-0001-00	Adapter Plate Kit for BR Compressors

OVERLOAD PROTECTORS

ILLCO #	COPELAND #	DESCRIPTION
2880860	071-0090-00	Overload Protector
2880861	071-0090-01	Overload Protector
2880883	071-0090-17	Overload Protector
2880880	071-0092-06	Overload Protector
2880886	071-0092-18	Overload Protector
2880888	071-0092-27	Overload Protector
2880889	071-0092-29	Overload Protector
2880892	071-0092-39	Overload Protector
2880893	071-0092-40	Overload Protector
2880894	071-0092-41	Overload Protector
2880920	071-0099-00	Overload Protector
2880922	071-0099-04	Overload Protector
2880924	071-0119-01	Overload Protector
2880925	071-0127-06	Overload Protector
2880925K	071-0127-30	Overload Protector
2880927	071-0127-34	Overload Protector
2880928	971-0127-37	Overload Protector
2880929	971-0127-41	Overload Protector
2880930	071-0127-43	Overload Protector
2880930H	971-0329-00	Overload Protector
2880931	071-0329-04	Overload Protector
2880933	071-0329-11	Overload Protector
2880935	071-0329-15	Overload Protector
2880944	071-0369-11	Overload Protector
2880945	071-0369-15	Overload Protector
2880946	071-0369-16	Overload Protector
2880951	071-0369-21	Overload Protector
2880955	071-0369-27	Overload Protector
2880984	071-0370-14	Overload Protector
2880984J	071-0370-29	Overload Protector
2880985	971-0554-19	Overload Protector
2880988	971-0554-22	Overload Protector
2880989	971-0554-27	Overload Protector
2880989A	971-0554-28	Overload Protector
2880990	971-0554-30	Overload Protector
2880992	971-0561-09	Overload Protector
2880994	971-0561-17	Overload Protector
2880994I	971-0561-26	Overload Protector
2880995	971-0603-11	Overload Protector
2880841	071-C100-01	Overload Protector
2880841L	071-C100-09	Overload Protector
2880842	071-C100-19	Overload Protector
2880843	071-C100-24	Overload Protector
2880846	071-C100-71	Overload Protector
2880847	071-C100-51	Overload Protector
2880848	071-C100-79	Overload Protector
2880852	071-C102-00	Overload Protector

ROTALOCK ADAPTERS

ILLCO #	COPELAND #	SIZE
2885602	998-0034-02	7/8" ID X 1-1/4" RL
2885603	998-0034-03	1-1/8" ID X 1-3/4" RL
2885604	998-0034-04	1-3/8" ID X 1-3/4" RL
2885607	998-0034-07	1-1/4" RL X 3/4" ID
2885608	998-0034-08	1-1/4" RL X 7/8" ID
2885610	998-0034-10	1-3/4" RL X 1-1/8" ID
2885613	998-0034-13	1-3/4" RL X 1-3/8" ID
2885615	998-0034-15	1/2" ID X 1-1/4 RL
2885616	998-0034-16	5/8" ID X 1-1/4 RL
2885617	998-0034-17	1-1/4" RL X 5/8" ID
2885618	998-0034-18	1-1/4" RL X 1/2" ID
2885700	998-0036-00	Rotalock Adapter Kit
2885702	998-0036-02	Rotalock Adapter Kit
2885705	998-0036-05	Brass Swt Adapter 2-1/8

UNLOADING VALVES

ILLCO #	COPELAND #	DESCRIPTION
2880470	023-0042-01	120V Solenoid Coil
2886212	998-0212-00	Unloading Valve
2886214	998-0212-02	120V Unloading Valve Kit
2886215	998-0212-03	240V Unloading Valve Kit
2886120	998-0119-10	240V Unloader Kit Less Valve Plate
2886326	998-0326-00	Moduload Valve Kit

GASKETS

ILLCO #	COPELAND #	DESCRIPTION
2880220	020-0006-46	Circular Gasket
2880221	020-0006-47	Circular Gasket
2880225	020-0006-53	Circular Gasket
2880227	020-0006-58	Circular Gasket
2880255	020-0028-00	O-Ring Teflon Seal Gasket
2880257	020-0028-02	O-Ring Teflon Seal Gasket
2880258	020-0028-03	O-Ring Teflon Seal Gasket
2880242	020-0012-09	Service Valve Gasket
2880243	020-0012-10	Service Valve Gasket
2880244	020-0012-11	Service Valve Gasket
2880263	020-0122-00	Cylinder Head Gasket
2880280	020-0600-00	Cylinder Head Gasket
2880282	020-0604-00	Cylinder Head Gasket
2880285	020-0612-00	Cylinder Head Gasket
2880290	020-0616-00	Cylinder Head Gasket
2880330	020-0629-00	Cylinder Head Gasket
2880400	020-0730-00	Cylinder Head Gasket
2880450	020-0920-01	Cylinder Head Gasket
2880435	020-0783-00	Unloader Valve Gasket
2880259	020-0103-00	Valve Plate Gasket
2880260	020-0112-00	Valve Plate Gasket
2880295	020-0626-00	Valve Plate Gasket
2880313	020-0627-03	Valve Plate Gasket
2880321	020-0628-01	Valve Plate Gasket
2880343	020-0664-03	Valve Plate Gasket
2880345	020-0664-05	Valve Plate Gasket
2880385	020-0729-05	Valve Plate Gasket
2880387	920-0729-07	Valve Plate Gasket
2880440	020-0853-00	Valve Plate Gasket
2880441	020-0853-01	Valve Plate Gasket
2880455	020-0954-00	Valve Plate Gasket
2882850	920-0981-00	Valve Plate Gasket
2882852	920-0981-02	Delta Reed Gasket Kit
2880405	020-0732-00	Oil Pump Gasket
2880407	020-0733-00	Oil Pump Gasket
2880265	020-0130-00	Stator Cover Gasket
2880365	020-0709-00	Stator Cover Gasket
2880420	020-0755-00	Stator Cover Gasket
2880334	020-0634-00	Bottom Plate Gasket
2880338	020-0638-00	Term Plate Gasket
2880370	020-0726-00	Cover Plate Gasket
2887790	998-0669-00	Gasket Kit

SERVICE VALVE KITS

ILLCO #	COPELAND #	SIZE
2886502	998-0510-02	1-1/8" Sweat
2886506	998-0510-06	5/8" Sweat
2886507	998-0510-07	1-5/8" Sweat
2886509	998-0510-09	1-1/8" Sweat
2886511	998-0510-11	1-3/8" Sweat
2886512	998-0510-12	7/8" Sweat
2886513	998-0510-13	1-1/8" Sweat
2886516	998-0510-16	1/2" Flare
2886517	998-0510-17	5/8" Flare
2886519	998-0510-19	2-5/8" Sweat
2886520	998-0510-20	2-1/8" Sweat
2886522	998-0510-22	1/2" Flare
2886523	998-0510-23	5/8" Flare
2886524	998-0510-24	1/2" Flare
2886525	998-0510-25	5/8" Flare
2886526	998-0510-26	3/8" Flare
2886539	998-0510-39	7/8" Sweat
2886540	998-0510-40	1/2" Flare
2886541	998-0510-41	5/8" Flare
2886544	998-0510-44	1/2" Sweat
2886546	998-0510-46	1-3/8" Rotalock
2886547	998-0510-47	1-1/8" Sweat
2886551	998-0510-51	1-1/8" Sweat
2886559	998-0510-52	7/8" Sweat
2886560	998-0510-90	7/8" Sweat

VALVE PLATE KITS

ILLCO #	COPELAND #	DESCRIPTION
2887600	998-0661-00	Valve Plate Kit
2887606	998-0661-06	Valve Plate Kit
2887608	998-0661-08	Valve Plate Kit
2887609	998-0661-09	Valve Plate Kit
2887614	998-0661-14	Valve Plate Kit
2887616	998-0661-16	Valve Plate Kit
2887617	998-0661-17	Valve Plate Kit
2887620	998-0661-20	Valve Plate Kit
2887623	998-0661-23	Valve Plate Kit
2887637	998-0661-37	Valve Plate Kit
2887641	998-0661-41	Valve Plate Kit
2887642	998-0661-42	Valve Plate Kit
2887649	998-0661-49	Valve Plate Kit
2887650	998-0661-50	Valve Plate Kit
2887651	998-0661-51	Valve Plate Kit
2887652	998-0661-52	Valve Plate Kit
2887658	998-0661-58	Valve Plate Kit
2887660	998-0661-60	Valve Plate Kit
2889123	998-1661-23	Valve Plate Kit
2889126	998-1661-26	Discus Valve Plate Kit
2889127	998-1661-27	Discus Valve Plate Kit
2889128	998-1661-28	Discus Valve Plate Kit
2889129	998-1661-29	Discus Valve Plate Kit
2889131	998-1661-31	Discus Valve Plate Kit
2889132	998-1661-32	Discus Valve Plate Kit
2889141	998-1661-41	Discus Valve Plate Kit
2889143	998-1661-43	Discus Valve Plate Kit
2889151	998-1661-51	Discus Valve Plate Kit
2889156	998-1661-56	Discus Valve Plate Kit
2889225	998-2661-25	Discus Valve Plate Kit
2889226	998-2661-26	Discus Valve Plate Kit
2889227	998-2661-27	Discus Valve Plate Kit
2889228	998-2661-28	Discus Valve Plate Kit
2889243	998-2661-43	Discus Valve Plate Kit
2889251	998-2661-51	Discus Valve Plate Kit

CONTACTORS

ILLCO #	COPELAND #	POLES	AMPS	VOLTS
2876130	912-2025-00	2	25	24V
2876135	912-2030-00	2	30	24V
2876136	912-2030-01	2	30	120V
2876137	912-2030-02	2	30	208/240V
2876145	912-2040-00	2	40	24V
2876155	912-3025-00	3	25	24V
2876165	912-3030-00	3	30	24V
2876166	912-3030-01	3	30	120V
2876167	912-3030-02	3	30	208/240V
2876175	912-3040-00	3	40	24V
2876176	912-3040-01	3	40	120V
2876177	912-3040-02	3	40	208/240V
2876185	912-3050-00	3	50	24V
2876186	912-3050-01	3	50	120V
2876187	912-3050-02	3	50	208/240V
2876196	912-3060-01	3	60	120V
2876197	912-3060-02	3	60	208/240V
2876206	912-3075-01	3	75	120V
2876207	912-3075-02	3	75	208/240V
2876216	912-3090-01	3	90	120V
2876217	912-3090-02	3	90	208/240V
2876226	912-3120-01	3	120	120V
2876227	912-3120-02	3	120	208/240V
2876102	912-0001-12	AUX	15-75	1NO/1NC
2876103	912-0001-13	AUX	15-75	2NO
2876104	912-0001-14	AUX	15-75	2NC
2876105	912-0001-17	AUX	90	1NO/1NC
2876110	912-0001-21	AUX	120	1NO/1NC

PRESSURE RELIEF VALVES

ILLCO #	COPELAND #	DESCRIPTION
2885751	998-0051-00	Internal Pressure Relief Valve
2885753	998-0051-02	External Pressure Relief Valve

SIGHT GLASS ASSEMBLIES

ILLCO #	COPELAND #	DESCRIPTION
2885502	998-0002-02	Sight Glass Assembly
2885504	998-0002-04	Sight Glass Assembly

TERMINAL PARTS

ILLCO #	COPELAND #	DESCRIPTION
2881576	521-0065-00	Terminal Parts Group
2881580	521-0142-00	Terminal Parts Group
2881582	521-0142-01	Terminal Parts Group
2884101	962-0001-01	Conduit Box Kit
2884102	962-0001-02	Conduit Box Kit

DEMAND COOLING

ILLCO #	COPELAND #	DESCRIPTION
2888113	998-1000-13	3D 120V Demand Cooling Kit
2888122	998-1000-22	2D 240V Demand Cooling Kit
2881565	910-0347-03	Demand Cooling Valve
2881570	910-0351-01	Demand Cooling Valve
2881250	085-0109-00	Temperature Probe Sensor
2881255	085-0110-00	230V Demand Cooling Module
2881256	085-0110-01	115V Demand Cooling Module
2887909	998-0700-09	Demand Cooling Mounting Bracket

SENTRONIC OIL CONTROLS

ILLCO #	COPELAND #	DESCRIPTION
2874850	585-1066-02	Sentronic Oil Control
2885555	998-0008-33	Sentronic Oil Pump
2886160	998-0157-00	Oil Control Kit
2886165	998-0162-00	Sentronic Control and Sensor
2888700	998-1125-00	Oil Cooler Kit

PRESSURE CONTROLS

ILLCO #	COPELAND #	DESCRIPTION
2877600	985-CP1A-1K	Low Pressure Control
2877610	985-CP1A-3A	Low Pressure Control
2877620	985-CP1A-3K	Low Pressure Control
2877630	985-CP1A-5A	High Pressure Fan Control
2877640	985-CP1A-5K	High Pressure Fan Control
2877650	985-CP1U-5A	High Pressure Limit
2877660	985-CP1U-5K	High Pressure Limit
2877670	985-CP2M-7A	Dual Pressure Control
2877680	985-CP2M-7K	Dual Pressure Control
2877710	985-CP3M-SB	Mini High Pressure Control

CONDENSING UNIT HOODS

ILLCO #	COPELAND #	DESCRIPTION
2870059	005-0882-09	Condensing Unit Hood

VOLT MONITORS

ILLCO #	COPELAND #	DESCRIPTION
2871250	085-0160-00	3-Phase Volt Monitor
2886900	998-0524-10	120/240V SS Module
2886850	971-0547-01	Phase Sensing Module Kit
2877401	943-0038-01	Commercial Comfort Alert 3 Phase

LIQUID INJECTION KITS

ILLCO #	COPELAND #	DESCRIPTION
2889801	998-7002-01	120V Liquid Injection Kit
2889802	998-7002-02	240V Liquid Injection Kit
2889825	998-7022-02	Discharge Line Thermostat
2886243	998-0243-00	Thermostat Kit ZR
2886481	998-0500-01	Discharge Temp
2886820	998-0520-00	Module Kit 120V
2886824	998-0520-04	Module Kit 24V

CAPILLARY INJECTION KITS

ILLCO #	COPELAND #	DESCRIPTION
2889000	998-1583-00	Capillary Injection Kit
2889001	998-1583-01	Capillary Injection Kit
2889002	998-1583-02	Capillary Injection Kit
2889003	998-1583-03	Capillary Injection Kit
2889004	998-1583-04	Capillary Injection Kit

RECEIVERS

ILLCO #	COPELAND #	DESCRIPTION
2881995	577-0315-06	Receiver Tank
2882010	577-0475-00	Receiver

REFRIGERATION OIL

ILLCO #	COPELAND #	DESCRIPTION
2878030	998-E022-00	1 QT. POE Oil
2878031	998-E022-01	1 Gal. POE Oil
2878041	998-AB52-01	AB Oil Ultra 200

ROTALOCK VALVE KITS

ILLCO #	COPELAND #	DESCRIPTION
2889742	998-5100-42	Rotalock Valve Kit
2889743	998-5100-43	Rotalock Valve Kit

CRANKCASE HEATER SLEEVES

ILLCO #	COPELAND #	DESCRIPTION
2870100	030-0186-00	Crankcase Heater Sleeve
2870110	030-0187-00	Crankcase Heater Sleeve
2889830	998-7024-00	Crankcase Heater Box Set

CRANKCASE HEATERS

ILLCO #	COPELAND #	VOLTS	WATTS	TYPE	USE WITH
2876901	918-0001-02	240V	65W	Immersion	2D, 3D 9 Flat or Deep Sump
2876902	918-0001-03	120V			
2876903	918-0002-01	480V	100W	Immersion	4, 6 Flat Bottom
2876904	918-0002-02	240V			
2876905	918-0002-03	120V			
2876960	918-0009-00	120V	65W	Bolt On	3A, 3R, E, L, M, N
2876961	918-0009-01	240V			
2876962	918-0009-02	480V			
2876981	918-0019-01	120V	70W	Wrap Around	ZB11M, ZB92K, ZF24K-ZF48K, ZS11M, ZS56K-ZS92K, ZR11M, ZR12M, ZR16M, ZR19M, ZR90K, ZZ18M-ZZ38M
2876984	918-0019-04	240V			
2876988	918-0019-08	480V			
2877100	918-0028-00	120V	100W	Insertion	2D, 3D, 9 (Must be used with 030-0186-00 well), 4D/4R, 6D/6R (Must be used with 030-0187-00 well)
2877101	918-0028-01	240V			
2877120	918-0031-05	240V/480V	40W	Round Insert	All CF, CN, CR, CS, CT EXCEPT CR*4, CR16-30KQ
2877130	918-0038-00	120V	48W	Wrap Around	AFJ1, AFJ23, AFJ31, AF31, ARJ10-ARJ13, ARJ84, ARM1, ARN1, ASJ58, R, S
2877132	918-0038-02	240V			
2877160	918-0041-00	120V	40W	Wrap Around	ZF09/11, ZS/B21/26 and ZR18/42K
2877163	918-0041-02	480V			
2877170	918-0043-00	240V	70W	Wrap Around	ZB15K-ZB45K, ZF06K-ZF18K, ZP16K-ZP57K, ZR26K-ZR81K, ZS15K-ZS45K
2877171	918-0043-01	480V			
2877191	918-0047-01	240V	90W	Wrap Around	ZB50K-ZB88K, ZR84K-ZR144K
2877192	918-0047-02	480V			
2877249	918-0118-05	120V	50W	Bolt On	H, K
2877250	918-0118-06	240V			
2877300	918-0518-00	120V	200W	Insertion	4, 6, 8, Deep Sump
2877301	918-0518-01	240V			

THERMOSTATIC EXPANSION VALVES

The thermostatic expansion valve (TEV) controls the flow of liquid refrigerant entering the direct expansion (DX) evaporator by maintaining a constant superheat of the refrigerant vapor at the outlet of the evaporator. The TEV controls the difference between the actual temperature and the saturation temperature of the refrigerant corresponding to the suction pressure at the sensing bulb location; this is superheat. By controlling superheat, the TEV keeps nearly the entire evaporator surface active, while preventing liquid refrigerant from returning to the compressor. The ability of the TEV to match refrigerant flow to the rate at which refrigerant can be vaporized in the evaporator makes the TEV the ideal expansion device for most air conditioning and refrigeration applications.

THERMOSTATIC CHARGES	
APPLICATION	**CHARGES**
Air Conditioning	CP60 CP100 GA CP115
Commercial Refrigeration (50°F to -10°F)	C
Low Temperature Refrigeration (0°F to -40°F)	Z ZP ZP40
Extreme Low Temperature Refrigeration (-40°F to -100°F)	X

MODEL NUMBER NOMENCLATURE

EG	V	E	-	1	-	C	3/8" ODF SOLDER	X	1/2" ODF SOLDER	X	1/4" ODF SOLDER	X	5'
BODY TYPE	SPORLAN CODE - REFRIGERANT **F** - R-12, **E** - R-13, **V** - R22, **G** - R-23, **M** - R-124, **J** - R-134a, **X** - R-401A, **L** - R-402A, **S** - R-404A, **V** - R-407A, **N** - R-407C, **S** - R-408A, **F** - R-409A, **Z** - R-410A, **V** - R-422D, **R** - R-502, **W** - R-503, **P** - R-507, **W** - R-508B, **A** - R-717	"E" SPECIFIES EXTERNAL EQUALIZER. OMMISSION OF LETTER "E" INDICATES VALVE WITH INTERNAL EQUALIZER.		NOMINAL CAPACITY IN TONS		THERMOSTATIC CHARGE	INLET CONNECTION SIZE AND STYLE		OUTLET CONNECTION SIZE AND STYLE		EXTERNAL EQUALIZER CONNECTION SIZE AND STYLE		CAPILLARY TUBING LENGTH (INCHES OR FEET)

TYPE EBS THERMOSTATIC EXPANSION VALVES

ODF SOLDER CONNECTIONS

Sporlan Type EBS valve is a brass bar body valve having the same physical size as the Type S valve except the Type EBS features a balanced port construction and extended ODF connections. The thermostatic element is replaceable. The balanced port construction makes this valve ideally suited for refrigeration and air conditioning applications which operate over widely varying conditions.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534449	EBSJE-5C	134a	External	-	5	C	5/8", 7/8", 1/4"
8534450	EBSSE-6C	404A	External	-	6	C	5/8", 7/8", 1/4"
8534451	EBSSE-6ZP	404A	External	-	6	ZP	5/8", 7/8", 1/4"
8534453	EBSSE-7-1/2ZP	404A	External	-	7-1/2	ZP	5/8", 7/8", 1/4"
8534455	EBSVE-8C	22	External	-	8	C	5/8", 7/8", 1/4"
8534456	EBSVE-8CP100	22	External	-	8	CP100	5/8", 7/8", 1/4"
8534457	EBSVE-11C	22	External	-	11	C	5/8", 7/8", 1/4"
8534458	EBSVE-11CP100	22	External	-	11	CP100	5/8", 7/8", 1/4"

TYPE EF THERMOSTATIC EXPANSION VALVES

ODF SOLDER CONNECTIONS

Sporlan Type F with SAE flare connections or Type EF with ODF solder connections are small brass bar body valves with identical internal construction and replaceable thermostatic elements. The Type F valve has a removable 100 mesh strainer as a standard feature. The Type EF has a 60x50 mesh insert strainer. These valves are designed for small refrigeration systems such as refrigerated cases, coolers, and freezers where space is limited and an external adjustment is desired.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8533204	EFF-1/4Z	12	Internal	-	1/4	Z	1/4", 1/2", -
8533208	EFF-1/4ZP	12	Internal	-	1/4	ZP	1/4", 1/2", -
8533209	EFS-1/4C	404A	Internal	-	1/4	C	1/4", 3/8", -
8533211	EFS-1/4ZP	404A	Internal	-	1/4	ZP	1/4", 3/8", -
8533219	EFS-1/2C	404A	Internal	-	1/2	C	1/4", 3/8", -
8533220A	EFS-1/2Z	404A	Internal	-	1/2	Z	1/4", 3/8", -
8533332	EFS-1C	404A	Internal	-	1	C	1/4", 3/8", -
8533326	EFV-1/4C	22	Internal	-	1/4	C	1/4", 1/2", -

TYPE EG THERMOSTATIC EXPANSION VALVES

ODF SOLDER CONNECTIONS

Sporlan Type EG valve is a forged brass body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a removable 100 mesh strainer which can be cleaned and/or replaced without removing the valve from the line. This valve is designed for small refrigeration systems such as refrigerated cases, coolers and freezers. In addition to refrigeration applications, the externally equalized Type EG valve may be used for small capacity air conditioning and heat pump units.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534740	EGPE-1-1/2C	R507	External	-	1-1/2	C	3/8", 1/2", 1/4"
8534807	EGSE-1/2C	404A	External	-	1/2	C	3/8", 1/2", 1/4"
8534808	EGSE-1/2Z	404A	External	-	1/2	Z	3/8", 1/2", 1/4"
8534809	EGSE-1/2ZP	404A	External	-	1/2	ZP	3/8", 1/2", 1/4"
8534810	EGSE-1C	404A	External	-	1	C	3/8", 1/2", 1/4"
8534811	EGSE-1Z	404A	External	-	1	Z	3/8", 1/2", 1/4"
8534812	EGSE-1ZP	404A	External	-	1	ZP	3/8", 1/2", 1/4"
8534813	EGSE-1-1/2C	404A	External	-	1-1/2	C	3/8", 1/2", 1/4"
8534814	EGSE-1-1/2Z	404A	External	-	1-1/2	Z	3/8", 1/2", 1/4"
8534815	EGSE-1-1/2ZP	404A	External	-	1-1/2	ZP	3/8", 1/2", 1/4"
8534816	EGSE-2C	404A	External	-	2	C	3/8", 1/2", 1/4"
8534817	EGSE-2Z	404A	External	-	2	Z	3/8", 1/2", 1/4"
8534818	EGSE-2ZP	404A	External	-	2	ZP	3/8", 1/2", 1/4"
8534820	EGVE-1/3C	22	External	-	1/3	C	3/8", 1/2", 1/4"
8534826	EGVE-1/2C	22	External	-	1/2	C	3/8", 1/2", 1/4"
8534832	EGVE-3/4C	22	External	-	3/4	C	3/8", 1/2", 1/4"
8534838	EGVE-1C	22	External	-	1	C	3/8", 1/2", 1/4"
8534844	EGVE-1-1/2C	22	External	-	1-1/2	C	3/8", 1/2", 1/4"
8534850	EGVE-2C	22	External	-	2	C	3/8", 1/2", 1/4"
8534856	EGVE-3C	22	External	-	3	C	3/8", 1/2", 1/4"

TYPE M THERMOSTATIC EXPANSION VALVES

ODF SOLDER FLANGE CONNECTIONS

Sporlan Type M valve is a cast bronze body, externally adjustable valve with either ODF solder or FPT flange connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type provides capacities greater than the Type H, and it is designed for both air conditioning and refrigeration applications. Flanges for the Type M valve are interchangeable with the Type V.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534069	MFE-25CP60	12	External	-	25	CP60	1-1/8", 1-1/8", 1/4"
8534090	MVE-21CP100	22	External	-	21	CP100	7/8", 1-1/8", 1/4"
8534111	MVE-26CP100	22	External	-	26	CP100	7/8", 1-1/8", 1/4"
8534123	MVE-34CP100	22	External	-	34	CP100	7/8", 1-1/8", 1/4"
8534125	MVE-42CP100	22	External	-	42	CP100	1-1/8", 1-1/8", 1/4"

TYPE RIVE THERMOSTATIC EXPANSION VALVES

ODF SOLDER CONNECTIONS

Sporlan Type RI valve is a small brass bar body, externally adjustable valve available with either SAE flare or ODF solder connections. This valve has a replaceable thermostatic element, and it is designed for small R-22 air conditioning and heat pump units where space is limited. This valve is also ideal for replacement of OEM type Sporlan TEVs such as the Type I and BI when used on the above applications.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534294	RIVE-3-GA-RPB	22	External	-	3	GA	3/8", 1/2", 1/4"
8534295	RIVE-4-GA-RPB	22	External	-	4	GA	1/2", 1/2", 1/4"
8534296	RIVE-5-GA-RPB	22	External	-	5	GA	1/2", 1/2", 1/4"
8534274	RCZE-4-GA	410a	External	-	4	GA	1/2", 1/2", 1/4"
8534275	RCZE-5-GA	410a	External	-	5	GA	1/2", 5/8", 1/4"

TYPE O THERMOSTATIC EXPANSION VALVES
ODF SOLDER CONNECTIONS

Sporlan Type O valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve type features a balanced port construction, and it is designed for both air conditioning and refrigeration applications. A synthetic seating surface provides tight shut-off during system off periods. This valve type has two body styles: a small body which provides capacities up to 30 tons R-22, and a large body which extends capacities to 70 tons R-22.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534137	OSE-9ZP	404A	External	-	9	ZP	7/8", 1-1/8", 1/4"
8534140	OSE-12ZP	404A	External	-	12	ZP	7/8", 1-3/8", 1/4"
8534138	OSE-12C	404A	External	-	12	C	7/8", 1-3/8", 1/4"
8534144	OVE-15C	22	External	-	15	C	7/8", 1-1/8", 1/4"
8534145	OVE-15CP100	22	External	-	15	CP100	7/8", 1-1/8", 1/4"
8534162	OVE-20C	22	External	-	20	C	7/8", 1-3/8", 1/4"
8534163	OVE-20CP100	22	External	-	20	CP100	7/8", 1-3/8", 1/4"
8534175	OVE-30CP100	22	External	-	30	CP100	1-1/8", 1-3/8", 1/4"
8534184	OVE-40CP100	22	External	-	40	CP100	1-1/8", 1-3/8", 1/4"
8534187	OVE-55CP100	22	External	-	55	CP100	1-1/8", 1-3/8", 1/4"
8534190	OVE-70CP100	22	External	-	70	CP100	1-1/8", 1-3/8", 1/4"

TYPE S THERMOSTATIC EXPANSION VALVES
ODF SOLDER CONNECTIONS

Sporlan Type S valve is a brass bar body, externally adjustable valve with ODF solder connections. The thermostatic element is replaceable, and the inlet connection has a permanent 12 mesh strainer. This valve is designed for both air conditioning and refrigeration applications.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8534345F	SSE-2C	404A	External	-	2	C	1/2", 5/8", 1/4"
8534345I	SSE-2ZP	404A	External	-	2	ZP	1/2", 5/8", 1/4"
8534346	SSE-3C	404A	External	-	3	C	1/2", 7/8", 1/4"
8534349	SSE-4C	404A	External	-	4	C	1/2", 7/8", 1/4"
8534352	SSE-4Z	404A	External	-	4	Z	1/2", 7/8", 1/4"
8534353	SSE-4ZP	404A	External	-	4	ZP	1/2", 7/8", 1/4"
8534358	SSE-6Z	404A	External	-	6	Z	5/8", 7/8", 1/4"
8534363	SVE-2CP100	22	External	-	2	CP100	1/2", 5/8", 1/4"
8534366	SVE-2Z	22	External	-	2	Z	1/2", 5/8", 1/4"
8534367	SVE-2ZP	22	External	-	2	ZP	1/2", 5/8", 1/4"
8534384	SVE-3CP100	22	External	-	3	CP100	1/2", 5/8", 1/4"
8534405	SVE-4CP100	22	External	-	4	CP100	1/2", 7/8", 1/4"
8534426	SVE-5CP100	22	External	-	5	CP100	1/2", 7/8", 1/4"

TYPE SBF THERMOSTATIC EXPANSION VALVES
ODF SOLDER CONNECTIONS

Sporlan Types SBF & EBF are small brass bar body valves with Extended ODF solder connections and the same balanced port construction as the Type BF valve. Both valves have replaceable thermostatic elements. The Type EBF has a 100 mesh insert strainer. The Type SBF has a 100 mesh removable strainer that can be cleaned and/or replaced while the valve is still soldered to the system tubing. The balanced port construction makes these valves ideally suited for small capacity refrigeration applications which operate over widely varying conditions.

ILLCO #	SPORLAN #	REFRIG.	EQUALIZER	PORT SIZE	NOMINAL CAPACITY (TONS)	CHARGE	CONNECTIONS (INLET, OUTLET, EXT. EQUAL.)
8532517	SBFSE-AAC	404A	External	AA	1/4 thru 1/2	C	3/8", 1/2", 1/4"
8532520	SBFSE-AC	404A	External	A	1/2 thru 1	C	3/8", 1/2", 1/4"
8532523	SBFSE-BC	404A	External	B	1 thru 2	C	3/8", 1/2", 1/4"
8532518	SBFSE-AAZ	404A	External	AA	1/4 thru 1/2	Z	3/8", 1/2", 1/4"
8532521	SBFSE-AZ	404A	External	A	1/2 thru 1	Z	3/8", 1/2", 1/4"
8532522	SBFSE-AZP	404A	External	A	1/2 thru 1	Z	3/8", 1/2", 1/4"
8532524	SBFSE-BZ	404A	External	B	1 thru 1-1/2	Z	3/8", 1/2", 1/4"
8532525	SBFSE-BZP	404A	External	B	1 thru 1-1/2	Z	3/8", 1/2", 1/4"
8532574	SBFVE-AAC	22	External	AA	1/2 thru 2/3	C	3/8", 1/2", 1/4"
8532580	SBFVE-AC	22	External	A	3/4 thru 1-1/2	C	3/8", 1/2", 1/4"
8532586	SBFVE-BC	22	External	B	1-1/2 thru 3	C	3/8", 1/2", 1/4"
8532592	SBFVE-CC	22	External	C	3 thru 5	C	3/8", 1/2", 1/4"
8532584	SBFVE-AZP	22	External	A	3/4 thru 1-1/2	Z	3/8", 1/2", 1/4"

TYPE Q, SQ, EQE, QE, SQE, SBQ, AND SBQE THERMOSTATIC EXPANSION VALVES - BODY ONLY

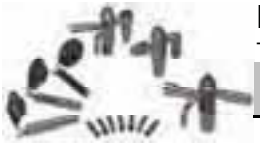
Sporlan selective charges are specifically designed for low temperature, medium temperature and air conditioning applications. Since the valve body and thermostatic element are supplied as independent components, you select the best possible thermostatic charge for the application. The element is manufactured with a large, flat diaphragm to yield maximum power and performance. The thermostatic element to body is Sporlan's proven knife edge, metal-to-metal joint, insuring leak-proof construction.

ILLCO #	SPORLAN #	EQUALIZER	CONNECTION TYPE	CONNECTION SIZE (INLET, OUTLET, EXT. EQUAL)
8539700	Q	Internal	SAE Flare	1/4", 1/2", -
8539702	Q	Internal	SAE Flare	1/4", 3/8", -
8539704	Q	Internal	SAE Flare	3/8", 1/2", -
8539705	EQ	Internal	ODF Solder	3/8", 1/2", -
8539706	SQ	Internal	ODF Solder	3/8", 1/2", -
8539713	EQE	External	ODF Solder	3/8", 1/2", 1/4"
8539715	EQE	External	ODF Solder	1/2", 7/8", 1/4"
8539720	QE	External	SAE Flare	1/4", 1/2", 1/4"
8539722	QE	External	SAE Flare	1/4", 3/8", 1/4"
8539724	QE	External	SAE Flare	3/8", 1/2", 1/4"
8539726	SQE	External	ODF Solder	3/8", 1/2", 1/4"
8539727	EBQ	Internal	ODF Solder	3/8", 1/2", -
8539729	SBQ	Internal	ODF Solder	3/8", 1/2", -
8539730	SBQE	External	ODF Solder	3/8", 1/2", 1/4"
8539731	EBQE	External	ODF Solder	3/8", 1/2", 1/4"

VALVE CARTRIDGES FOR Q-SERIES TEV's

ILLCO #	SPORLAN #	NOMINAL CAPACITY (TONS)					SIZE	COLOR CODE
		R-12	R-22	R-502	R-134a	R-404A		
8539755	BQC-AAA	1/8 thru 1/5	1/8 thru 1/3	1/8 thru 1/4	1/8 thru 1/5	1/8 thru 1/5	AAA	Red
8539756	BQC-AA	1/4 thru 1/3	1/2 thru 2/3	1/4 thru 1/3	1/4 thru 1/3	1/4 thru 1/3	AA	Yellow
8539757	BQC-A	1/2 thru 1	3/4 thru 1-1/2	1/2 thru 1	1/2 thru 1	1/2 thru 1	A	Blue
8539758	BQC-B	1-1/4 thru 1-3/4	1-3/4 thru 3	1-1/4 thru 2	1-1/4 thru 1-3/4	1-1/4 thru 2	B	Pink
8539759	BQC-C	2 thru 3	3-1/4 thru 5-1/2	2-1/4 thru 3	2 thru 3	2-1/4 thru 3	C	White
8539760	QC-0	1/8 thru 1/6	1/4 thru 1/3	1/8 thru 1/6	1/8 thru 1/6	1/8 thru 1/6	0	Red
8539761	QC-1	1/4	1/2 thru 3/4	1/4	1/4	1/4	1	Yellow
8539762	QC-2	1/2	1	1/2	1/2	1/2	2	Green
8539763	QC-3	1	1-1/2	1	1	1	3	Blue
8539764	QC-4	1-1/2	2 thru 2-1/2	1-1/2	1-1/2	1-1/2	4	Pink
8539765	QC-5	2	3	2	2	2	5	Black
8539766	QC-6	2-1/2 thru 3	4 thru 5	3	2-1/2 thru 3	3	6	White

Can't find what you're looking for? Give us a call and one of our knowledgeable employees will be happy to help you.



ELEMENT KITS FOR TEV's

Thermostatic elements for expansion valves.

ILLCO #	SPORLAN #	FOR USE WITH VALVE TYPES	REFRIG.	CHARGE	TUBING LENGTH
8535962	KT-43-FC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12, 134a, 401A, 409A	C	5'
8535963	KT-43-FCP60	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12, 134a, 401A, 409A	CP60	5'
8535964	KT-43-FZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	Z	5'
8535966	KT-43-FZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	12	ZP	5'
8535967	KT-43-L1	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	Variable	L1	5'
8535967A	KT-43-L2	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	Variable	L2	5'
8535968	KT-43-VC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22, 422D, 407A, 407C	C	5'
8535969	KT-43-VCP100	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	CP100	5'
8535969A	KT-43-VGA	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22, 422D, 407A, 407C	GA	5'
8535970	KT-43-VZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22, 422D	Z	5'
8535971	KT-43-VZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	ZP	5'
8535971A	KT-43-VZP40	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	22	ZP40	5'
8535972	KT-43-SC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A, 408A, 502	C	5'
8535975	KT-43-SZ	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A, 408A, 502, 507	Z	5'
8535978	KT-43-SZP	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	404A, 408A, 502, 507	ZP	5'
8535984	KT-43-PC	F, EF, BF, EBF, SBF, Q, EQ, SQ, EBQ, BQ, SBQ	402A, 507	C	5'
8535701	KT-33-FC	P, H, O	12	C	5'
8535752	KT-33-FCP60	P, H, O	12	P60	5'
8535754	KT-33-FCP60	P, H, O	12	P60	10'
8535803	KT-33-FZ	P, H, O	12	Z	5'
8535810	KT-33-SC	P, H, O	404A	C	5'
8535813	KT-33-SZP	P, H, O	404A	ZP	5'
8535854	KT-33-VC	P, H, O	22	C	5'
8535905	KT-33-VCP100	P, H, O	22	CP100	5'
8535907	KT-33-VCP100	P, H, O	22	CP100	10'
8535956	KT-33-VZ	P, H, O	22	Z	5'
8535960	KT-33-VZP	P, H, O	22	ZP	5'
8536007	KT-53-FC	G, EG, MC, EMC, X	12	C	5'
8536058	KT-53-FCP60	G, EG, MC, EMC, X	12	CP60	5'
8536109	KT-53-FZ	G, EG, MC, EMC, X	12	Z	5'
8536151	KT-53-FZP	G, EG, MC, EMC, X	12	ZP	5'
8536170	KT-53-L2	G, EG, MC, EMC, X	Variable	L2	5'
8536175	KT-53-L3	G, EG, MC, EMC, X	Variable	L3	5'
8536202	KT-53-VC	G, EG, MC, EMC, X	22	C	5'
8536253	KT-53-VCP100	G, EG, MC, EMC, X	22	CP100	5'
8536304	KT-53-VZ	G, EG, MC, EMC, X	22	Z	5'
8536307	KT-53-VZP	G, EG, MC, EMC, X	22	ZP	5'
8536312	KT-53-VZP40	G, EG, MC, EMC, X	22	ZP40	5'
8536355	KT-53-SC	G, EG, MC, EMC, X	404A	C	5'
8536406	KT-53-SZ	G, EG, MC, EMC, X	404A	Z	5'
8536457	KT-53-SZP	G, EG, MC, EMC, X	404A	ZP	5'
8536460	KT-53-PC	G, EG, MC, EMC, X	507	C	5'
8536470	KT-63-FCP60	M, V, K, W	12	CP60	5'
8536472	KT-63-FCP60	M, V, K, W	12	CP60	10'
8536474	KT-63-VC	M, V, K, W	22	C	10'
8536476	KT-63-VCP100	M, V, K, W	22	CP100	5'
8536478	KT-63-VCP100	M, V, K, W	22	CP100	10'
8536508	KT-83-FC	C, S, EBS, O	12	C	5'
8536559	KT-83-FCP60	C, S, EBS, O	12	CP60	5'
8536601	KT-83-FZ	C, S, EBS, O	12	Z	5'
8536652	KT-83-FZP	C, S, EBS, O	12	ZP	5'
8536665	KT-83-L1	C, S, EBS, O	Variable	L1	5'
8536670	KT-83-L2	C, S, EBS, O	Variable	L2	5'
8536675	KT-83-L3	C, S, EBS, O	Variable	L3	5'
8536703	KT-83-VC	C, S, EBS, O	22	C	5'
8536704	KT-83-VC	C, S, EBS, O	22	C	10'
8536754	KT-83-VCP100	C, S, EBS, O	22	CP100	5'
8536756	KT-83-VCP100	C, S, EBS, O	22	CP100	10'
8536758	KT-83-VCP100	C, S, EBS, O	22	CP100	20'
8536805	KT-83-VZ	C, S, EBS, O	22	Z	5'
8536808	KT-83-VZP	C, S, EBS, O	22	ZP	5'
8536856	KT-83-SC	C, S, EBS, O	404A	C	5'
8536907	KT-83-SZ	C, S, EBS, O	404A	Z	5'
8536958	KT-83-SZP	C, S, EBS, O	404A	ZP	5'
8536970	KT-83-PC	C, S, EBS, O	507	C	5'

ILLCO can supply and re-stock Sporlan Q-Valve Kits. Call your local **ILLCO** branch for more details.

Sporlan Q-Valve Kits include Type Q Bodies, Cartridge Kits, and Element Kits.

TEMPERATURE RESPONSIVE EXPANSION VALVES

The Type Y1037 Temperature Responsive Expansion Valve (TREV) was developed in response to the refrigeration industry's move to R-22 as a refrigerant for medium and low temperature refrigeration. Since R-22 refrigeration systems run higher compressor discharge temperatures than comparable R-12 and R-502 systems, a need has developed for an expansion valve which will prevent excessive discharge temperatures from occurring on these systems. The Y1037 TREV solves this problem by modulating refrigerant flow in response to bulb temperature only.

ILLCO #	SPORLAN #	TEMPERATURE	TUBING LENGTH	CONN. TYPE	CONNECTION SIZE (INLET, OUTLET, EXT. EQUAL)
8534500	Y1037 FV-1/2	240°F	30"	ODF	3/8", 3/8", -
8534509	Y1037-FV-1/2	230°F	60"	ODF	3/8", 3/8", -
8534514	Y1037-FV-1	190°F	60"	ODF	3/8", 3/8", -
8534518	Y1037-FV-1	230°F	60"	ODF	3/8", 3/8", -

HYDRAULIC ELEMENT KITS FOR OUTDOOR CHILLERS

For use with type Y1037 temperature responsive expansion valves.

ILLCO #	SPORLAN #	FOR USE WITH VALVE TYPES
8537010	KT-Y735-VCP100	Y1037
8537030	KT-Y750-VCP100	Y1037

SOLENOID VALVES

- Molded coil for most sizes.
- Class "F" temperature rating — Coil types MKC-1, MKC-2, and OMKC-2.
- Extremely rugged, simple design — few parts.
- "E" Series may be brazed without disassembly.
- Tight closing through use of synthetic seating material.
- Can be used with most commercially available CFC, HCFC and HFC refrigerants because of high MOPD ratings. Consult Sporlan Valve Company, Washington, MO for refrigerants not listed.
- Synthetic coated metal gaskets minimize external leaks.

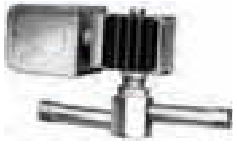
TYPE A3, E3 AND E5 SERIES

Types A3 and E3 series are hermetic, direct-acting type solenoid valves primarily for refrigeration and air conditioning applications. The flow rate of the E3 and A3 are identical, therefore, the E3 may be freely substituted for the A3. The E5 series are compact solenoid valves with pilot operated disc construction and are rated at 2.8 tons R-22 at 3 psi pressure drop vs. 1.6 for the A3S1. On applications where the "A3" port is not the metering device the E5 may be used. These valves may be mounted horizontally, on their side or in a vertical line. The Types E3 and E5 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E3" and "E5" series can be installed using either low or no silver content brazing alloy.

A3F1

TYPE A3 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537501	A3F1	1/4" SAE Flare	No	Closed	0.101"	1.6	1.2	1.1
8537521	A3S1	1/4" ODF	No	Closed	0.101"	1.6	1.2	1.1
8537522	A3S1	3/8" ODF - 1/2" ODM	No	Closed	0.101"	1.6	1.2	1.1



E5S130

TYPE E3 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537504	E3S120	1/4" ODF	No	Closed	0.101"	1.6	1.2	1.1
8537508	E3S130	3/8" ODF	No	Closed	0.101"	1.6	1.2	1.1

TYPE E5 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537512	E5S120	1/4" ODF	No	Closed	0.150"	2.8	2.1	1.9
8537516	E5S130	3/8" ODF	No	Closed	0.150"	2.8	2.1	1.9

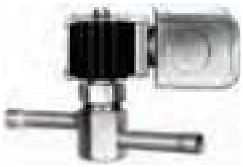
TYPE B6 AND E6 SERIES

Types B6 and E6 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. They are suitable for suction line service because very low pressure differential, 1 psi, is required for full operation. The Type E6 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E6" series can be installed without disassembly using either low or no silver content brazing alloy.

B6F1

TYPE B6 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537543	B6F1	3/8" SAE Flare	No	Closed	3/16"	4.9	3.8	3.3
8537582	MB6F1	3/8" SAE Flare	Yes	Closed	3/16"	4.9	3.8	3.3
8537564	B6S1	1/2" ODF - 5/8" ODM	No	Closed	3/16"	4.9	3.8	3.3
8537583	MB6S1	1/2" ODF - 5/8" ODM	Yes	Closed	3/16"	4.9	3.8	3.3



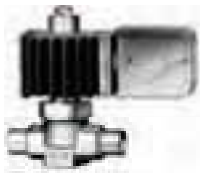
E6S130

TYPE E6 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537553	E6S130	3/8" ODF	No	Closed	3/16"	4.9	3.8	3.3
8537580	ME6S130	3/8" ODF	Yes	Closed	3/16"	4.9	3.8	3.3
8537555	E6S140	1/2" ODF	No	Closed	3/16"	4.9	3.8	3.3
8537584	ME6S140	1/2" ODF	Yes	Closed	3/16"	4.9	3.8	3.3

TYPE B9 AND E9 SERIES

Types B9 and E9 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. These valves are also suitable for suction line service because very low pressure differential, 1 psi, is required for full operation. The Type E9 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E9" series can be installed without disassembly using either low or no silver content brazing alloy.



OB9S2

TYPE B9 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537566	B9F2	3/8" SAE Flare	No	Closed	9/32"	8.1	6.2	5.4
8537585	MB9F2	3/8" SAE Flare	Yes	Closed	9/32"	8.1	6.2	5.4
8537567	B9P2	3/8" NPT Female	No	Closed	9/32"	8.1	6.2	5.4
8537568	B9S2	1/2" ODF - 5/8" ODM	No	Closed	9/32"	8.1	6.2	5.4
8537606	MB9S2	1/2" ODF - 5/8" ODM	Yes	Closed	9/32"	8.1	6.2	5.4

TYPE E9 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537607	ME9S230	3/8" ODF	Yes	Closed	9/32"	8.1	6.2	5.4
8537608	ME9S240	1/2" ODF	Yes	Closed	9/32"	8.1	6.2	5.4

TYPE B10 AND E10 SERIES

Types B10 and E10 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. They are suitable for suction line service because very low pressure differential, 1 psi, is required for full operation. The Type E10 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E10" series can be installed without disassembly using either low or no silver content brazing alloy.

E10S250

TYPE B10 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537571	B10S2	5/8" ODF - 3/4" ODM	No	Closed	5/16"	11.1	8.5	7.3
8537648	MB10S2	5/8" ODF - 3/4" ODM	Yes	Closed	5/16"	11.1	8.5	7.3
8537627	MB10F2	1/2" SAE Flare	Yes	Closed	5/16"	11.1	8.5	7.3

TYPE E10 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537572	E10S240	1/2" ODF	No	Closed	5/16"	11.1	8.5	7.3
8537649	ME10S240	1/2" ODF	Yes	Closed	5/16"	11.1	8.5	7.3
8537572A	E10S250	5/8" ODF	No	Closed	5/16"	11.1	8.5	7.3
8537650	ME10S250	5/8" ODF	Yes	Closed	5/16"	11.1	8.5	7.3

TYPE B14 AND E14 SERIES

Types B14 and E14 Series are compact solenoid valves with pilot operated disc construction for refrigeration and air conditioning. These valves may be mounted horizontally, on their side or in a vertical line. These valves are also suitable for suction line service because very low pressure differential, 1 psi, is required for full operation. The Type E14 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E14" series can be installed without disassembly using either low or no silver content brazing alloy.

MB14S2

TYPE B14 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537573	B14P2	1/2" NPT Female	No	Closed	7/16"	15.8	12.0	10.4
8537574	B14S2	5/8" ODF - 7/8" ODM	No	Closed	7/16"	15.8	12.0	10.4
8537669	MB14S2	5/8" ODF - 7/8" ODM	Yes	Closed	7/16"	15.8	12.0	10.4

TYPE E14 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537575	E14S250	5/8" ODF	No	Closed	7/16"	15.8	12.0	10.4
8537670	ME14S250	5/8" ODF	Yes	Closed	7/16"	15.8	12.0	10.4
8537675	ME14S270	7/8" ODF	Yes	Closed	7/16"	15.8	12.0	10.4

TYPE B19 AND E19 SERIES

Types B19 and E19 Series are pilot operated solenoid valves for refrigeration and air conditioning applications. They are suitable for suction service because very low pressure differential, 1 psi, is required for full operation. These valves may be mounted horizontally, on their side or in a vertical line. The Type E19 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E19" series can be installed without disassembly using either low or no silver content brazing alloy.

MB19S2

TYPE B19 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537576	B19P2	3/4" NPT Female	No	Closed	19/32"	24.2	18.4	16
8537577	B19S2	7/8" ODF	No	Closed	19/32"	24.2	18.4	16
8537690	MB19S2	7/8" ODF	Yes	Closed	19/32"	24.2	18.4	16

TYPE E19 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537689	ME19S250	5/8" ODF	Yes	Closed	19/32"	24.2	18.4	16
8537578	E19S270	7/8" ODF	No	Closed	19/32"	24.2	18.4	16
8537691	ME19S270	7/8" ODF	Yes	Closed	19/32"	24.2	18.4	16
8537818	OE19S270	7/8" ODF	No	Open	19/32"	24.2	18.4	16

TYPE B25 AND E25 SERIES

Types B25 and E25 Series are pilot operated solenoid valves for refrigeration and air conditioning applications. They are suitable for suction service because very low pressure differential, 1 psi, is required for full operation. These valves may be mounted horizontally, on their side or in a vertical line. The Type E25 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E25" series can be installed without disassembly using either low or no silver content brazing alloy.

MB25S2

E25S290

TYPE B25 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537579	B25P2	1" NPT Female	No	Closed	25/32"	41.4	31.5	27.4
8537711	MB25S2	1-1/8" ODF	Yes	Closed	25/32"	41.4	31.5	27.4

TYPE E25 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537710	ME25S270	7/8" ODF	Yes	Closed	25/32"	41.4	31.5	27.4
8537712	ME25S290	1-1/8" ODF	Yes	Closed	25/32"	41.4	31.5	27.4
8537823	OE25S290	1-1/8" ODF	No	Open	25/32"	41.4	31.5	27.4

TYPE B33 AND E34 SERIES

Types B33 and E34 Series solenoid valves are pilot operated for refrigeration and air conditioning applications. They are suitable for suction service because very low pressure differential, 1 psi, is required for full operation. The Type B33 Series valve must be mounted with the coil on top or not more than 45° from the vertical line. The E34 Series may be mounted horizontally, on their side or in a vertical line. The Type E34 series solenoid valves feature extended solder type connections as standard. One important benefit to the user is that all valves in the "E34" series can be installed without disassembly using either low or no silver content brazing alloy.

MB33S2

TYPE B33 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537713	MB33S2	1-1/8" ODF Flanged	Yes	Closed	1"	57.6	43.8	38.1
8537714	MB33S2	1-3/8" ODF Flanged	Yes	Closed	1"	57.6	43.8	38.1

ME34S2110

TYPE E34 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537720	ME35S190	1-1/8" ODF	Yes	Closed	1"	57.6	43.8	38.1
8537725	ME34S2110	1-3/8" ODF	Yes	Closed	1"	57.6	43.8	38.1
8537826	OE34S2110	1-3/8" ODF	No	Open	1"	57.6	43.8	38.1

TYPE E42 SERIES

Type E42 Series are large capacity, pilot operated solenoid valves designed for refrigeration and air conditioning applications. Suitable for suction service because very low pressure differential, 1 psi, is required for full operation. The Type E42 series may be brazed into line without disassembly as valves contain extended solder type connections. Use caution to place wet rag or chills on extensions at body to prevent excessive overheating. The E42 Series may be mounted horizontally, on their side or in a vertical line. The E42 series is a Class "F" temperature rated coil that is provided as standard, therefore a high temperature coil is not required for discharge service. The E42 series are steel body valves and therefore are not recommended for water or steam service.

ME42S2130

TYPE E42 - VALVE ONLY

ILLCO #	SPORLAN #	CONNECTION	MANUAL LIFT STEM	NORMAL POSITION	PORT SIZE	NOM. CAP. R-22	NOM. CAP. R-134a	NOM CAP. R-404A
8537728	ME42S2130	1-5/8" ODF	Yes	Closed	1-5/16"	98.2	96.7	65.8
8537827	OE42S2130	1-5/8" ODF	No	Open	1-5/16"	98.2	96.7	65.8
8537730	ME42S2170	2-1/8" ODF	Yes	Closed	1-5/16"	98.2	96.7	65.8

INDUSTRIAL SOLENOID VALVES

These valves are suitable for most types of industrial applications. Ideal for water, glycol, most refrigerant oils and heat transfer fluids, air lines to chucking devices, steam lines, etc. Use the disc type valves for high temperature and steam applications up to 25 psig. Use the teflon diaphragm type valve for high temperature and steam applications over 5 psig (225°F) but do not exceed 10 psig (240°F). For applications above 240°F, consult Sporlan Valve Company, Washington, MO. These valves may be mounted horizontally, on their side or in a vertical line.

Direct Acting Type

The W3P1 is the ideal size for use on air chucking devices. Generally a very tight seat is required for this type of application. This can be achieved by using a neoprene seat in the W3P1 in place of the standard teflon. To order specify RW3P1.

Disc Type

In certain areas of the country, particularly hard water localities, the integral brass seats in solenoid valves may deteriorate very rapidly. This problem is solved by using a stainless steel seat insert in the brass body in place of the usual brass seat. Valves from the W6 series through the W25 series have this feature. These valves are also equipped with teflon seating materials for long life. The W14 series through the W25 series are also equipped with a closing spring on top of the disc to assist in valve closing.

Diaphragm Type

These valves are tight seating in applications of normal differential pressure. For applications where differential pressures in the closed position are below 5 psi, it is recommended that a Buna-N diaphragm be used in place of the standard teflon diaphragm. To order specify BR184P1 or KBR184P1. In certain areas of the country, particularly hard water localities, the integral brass seats in solenoid valves may deteriorate very rapidly. This problem is solved by using a stainless steel seat insert in place of the usual brass seat. Example: KR184P1.

R184P1

ILLCO #	SPORLAN #	CONNECTION	NORMAL POSITION	PORT SIZE	DIAPHRAGM	S.S. INSERT SEAT	MOPD (PSI)
8537732	W3P1	1/4" NPT Female	Closed	.109"	-	No	150
8537764	W14P2	1/2" NPT Female	Closed	7/16"	-	Yes	150
8537785	W19P2	3/4" NPT Female	Closed	19/32"	-	Yes	150
8537806	W25P2	1" NPT Female	Closed	1"	-	Yes	150
8537743	R183P1	3/8" NPT Female	Closed	9/16"	Teflon	No	150
8537753	KBR184P1	1/2" NPT Female	Closed	9/16"	Buna-N	Yes	150
8537775	KBR246P1	3/4" NPT Female	Closed	3/4"	Buna-N	Yes	150

3-WAY HEAT RECLAIM VALVES

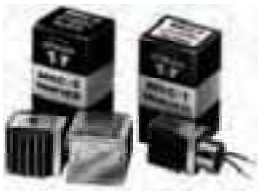
Today more and more applications are utilizing "heat reclaim" as a means of providing a supplementary or even a primary heat source. Heat reclaim can significantly lower energy costs. Heat reclaim is best described as the process of reclaiming heat that would normally be rejected by an outdoor condenser. Typically, the refrigerant is diverted to an air handler in an area that requires heat. One of the older applications of heat reclaim is in a supermarket, since a supermarket has a constant supply of heat removed from the many refrigerated display fixtures and coolers. Today there are many cost-effective applications of heat reclaim in refrigeration, air conditioning, dehumidification and heat pump systems. While the most popular application of heat reclaim is air, water heating is popular in supermarkets, convenience stores and restaurants, which all use considerable amounts of hot water. Essentially any application that requires heat can recover the heat from a refrigeration or air conditioning system. The energy efficiency of recovered heat will almost always be more efficient than any other purchased heat source. 3-Way refrigerant heat reclaim valves make it convenient to recover rejected or waste heat.

ILLCO #	SPORLAN #	CONNECTION	PORT SIZE
8537830	8D7B	7/8" ODF	3/4"
8537835	8D7C	7/8" ODF	3/4"
8537840	8D9B	1-1/8" ODF	3/4"
8537845	8D9C	1-1/8" ODF	3/4"
8537850	12D11B	1-3/8" ODF	1-1/4"
8537855	12D11C	1-3/8" ODF	1-1/4"
8537858	12D13B	1-5/8" ODF	1-1/4"
8537864	16D17B	2-1/8" ODF	2-1/8"

3-WAY SPLIT CONDENSER VALVES

The split condenser valve is a relatively simple modification of the standard heat reclaim valve. The upper seat and port of the split condenser valve opens and closes. The lower port is always open. During the normal full condenser mode, the refrigerant flow is split evenly between the two halves of the condenser. When employing heat reclaim in series with the outdoor condenser of a refrigeration system, the required refrigerant charge may be a potential problem. If a majority or all of the heat is removed from the refrigerant in the heat reclaim coil, some or all of the refrigerant may be in the form of liquid when it enters the outdoor condenser coil. During this condition, the liquid charge in the system would have to be large enough to completely fill the condenser with liquid. The requirement for this charge may be reduced by splitting and using only half of the outdoor condenser. During the winter the effectiveness of the condenser surface area is much greater than it is during the summer. Typically, split condenser valves are controlled by an ambient temperature control set for a specific outdoor temperature. This usually coincides with the requirement for heat reclaim in the building. In some applications, the control system will also split the condenser anytime the heat reclaim coil is active.

ILLCO #	SPORLAN #	CONNECTION	PORT SIZE
8537841	8D9B-SC	1-1/8" ODF	3/4"
8537859	12D13B-SC	1-5/8" ODF	1-1/4"
8537865	16D17C-SC	2-1/8" ODF	2"



SOLENOID COIL KITS

For use with Sporlan solenoid valves.

ILLCO #	SPORLAN #	ELECTRICAL CONNECTION	VOLTAGE	CYCLES	WATTS
8537901	MKC-1-24	Junction Box	24	50/60	10
8537902	MKC-1-24	Conduit Boss	24	50/60	10
8537905	MKC-1-120	Junction Box	120	50/60	10
8537907	MKC-1-120	Conduit Boss	120	50/60	10
8537909	MKC-1-208/240	Junction Box	208/240	50/60	10
8537914	MKC-1-120/240	Junction Box	120/240	50/60	10
8537919	MKC-2-24	Junction Box	24	50/60	15
8537920	MKC-2-24	Conduit Boss	24	50/60	15
8537924	MKC-2-120	Junction Box	120	50/60	15
8537926	MKC-2-120	Conduit Boss	120	50/60	15
8537929	MKC-2-208/240	Junction Box	208/240	50/60	15
8537935	MKC-2-120/240	Junction Box	120/240	50/60	15
8537941	MKC-3-24	Junction Box	24	50/60	18
8537946	MKC-3-120	Junction Box	120	50/60	18
8537952	MKC-3-240	Junction Box	240	50/60	18
8537970	OMKC-2-120/240	Junction Box	120/240	50/60	15
8537975	OMKC-2 120/240	Conduit Boss	120/240	50/60	15

DISCHARGE BYPASS VALVES FOR SYSTEM CAPACITY CONTROL

On many air conditioning and refrigeration systems it is desirable to limit the minimum evaporating pressure during periods of low load either to prevent coil icing or to avoid operating the compressor at a lower suction pressure than it was designed to operate. Various methods have been used to achieve this result — integral cylinder unloading, gas engines with variable speed control, or multiple smaller systems. Compressor cylinder unloading is used extensively on larger systems but is too costly on small equipment, usually 10 hp and below. Cycling the compressor with a low pressure cutout control has had widespread usage but is being re-evaluated for three reasons.

1. On-off control on air conditioning systems is uncomfortable and does a poor job of humidity control.
2. Compressor cycling reduces equipment life.
3. In most cases, compressor cycling is not economical because of peak load demand charges.

One method that offers a practical and economical solution to the problem is to bypass a portion of the hot discharge gas directly into the low side. This is done by a modulating control valve — commonly called a Discharge Bypass Valve. This valve, which opens on a decrease in suction pressure, can be set to automatically maintain a desired minimum evaporating pressure regardless of the decrease in evaporator load. Sporlan manufactures a complete line of Discharge Bypass Valves — the models discussed in this bulletin, plus many special designs, including non-adjustable models, for specific customer requirements.

SHGBE-8

ILLCO #	SPORLAN #	EQUALIZER	ADJUSTMENT RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538090	ADRI-1-1/4	Internal	0/55	28	3/8" ODF	5/32"
8538095	ADRPE-3	External	0/80	60	1/2" ODF	3/8"
8538101	ADRPE-3	External	0/80	60	5/8" ODF	3/8"
8538122	ADRHE-6	External	0/80	60	7/8" ODF	3/4"
8538125	ADRHE-6	External	0/80	60	1-1/8" ODF	3/4"
8538127	ADRS-2	Internal	0/30	20	3/8" ODF	1/4"
8538130	ADRSE-2	External	0/80	60	1/2" ODF	1/4"
8538133	ADRSE-2	External	0/80	60	5/8" ODF	1/4"
8538779	SHGBE-8	External	0/100	30	7/8" ODF	.43"
8538780	SHGBE-8	External	0/100	30	1-1/8" ODF	.43"

EVAPORATOR PRESSURE REGULATING VALVES

Sporlan Evaporator Pressure Regulating Valves offer an efficient means of balancing the system capacity with the load requirements during periods of low loads; the valve is also able to maintain different evaporator conditions on multi-temperature systems. Simply, the primary function of the valve is to prevent the evaporator pressure from falling below a predetermined value or setting. Control of evaporator pressure (and the corresponding saturation temperature) by cycling the compressor with a thermostat or some other method is inadequate on most refrigeration systems, because as the load drops off, the evaporator pressure starts to decrease and system performance falls off. Sporlan Evaporator Pressure Regulating Valves are designed to accomplish peak system performance in an effective and efficient manner. These valves will automatically throttle the vapor flow from the evaporator in order to maintain the desired minimum evaporator pressure. When the load increases, the evaporating pressure will increase above the valve setting and the valve will open further. Sporlan manufactures two direct acting models . . . ORIT-6 and ORIT-10 . . . both available with nominal adjustment ranges of 0 to 50 psig and 30 to 100 psig. These valves have an optional access valve/pressure tap connection on the inlet connection that permits the use of a pressure gauge to check the setting of the regulating valve.

ORIT-6

ORIT-6 AND ORIT-10 SERIES

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538189A	ORIT-6	0/50	30	1/2" SAE Flare	3/4"
8538190	ORIT-6	30/100	60	1/2" SAE Flare	3/4"
8538197	ORIT-6	0/50	30	5/8" ODF	3/4"
8538208	ORIT-6	30/100	60	5/8" ODF	3/4"
8538229	ORIT-6	0/50	30	7/8" ODF	3/4"
8538250	ORIT-6	30/100	60	7/8" ODF	3/4"
8538259	ORIT-6	0/50	30	1-1/8" ODF	3/4"
8538263	ORIT-6	30/100	60	1-1/8" ODF	3/4"
8538268	ORIT-10	30/100	60	7/8" ODF	1.218"
8538271	ORIT-10	0/50	30	1-1/8" ODF	1.218"
8538292	ORIT-10	30/100	60	1-1/8" ODF	1.218"
8538313	ORIT-10	0/50	30	1-3/8" ODF	1.218"
8538334	ORIT-10	30/100	60	1-3/8" ODF	1.218"

The most commonly applied evaporator flow control is the evaporator pressure regulating valve. This device automatically throttles the vapor flow from the evaporator to prevent evaporator pressure from falling below the setting of the valve. Sporlan manufactures three adjustable, pilot operated models of this type — ORIT-12, ORIT-15, and ORIT-20 — available with a nominal adjustment range of 0 to 75 psi. Other ranges are available, contact Sporlan Valve Company, Washington, MO. The valves are supplied with an access valve pressure tap connection that permits the use of a pressure gauge to check the setting. A pilot valve is available with a solenoid stop feature for gas defrost applications. The unique and energy saving feature of the ORIT-12, -15, and -20 is their ability to operate at pressure drops of less than 1 psi. A detailed explanation of the operation of the valve will show how this is possible.

ORIT-12, ORIT-15 AND ORIT-20 SERIES

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538712	ORIT-12	0/100	30	1-1/8" ODF	25/32"
8538715	ORIT-15	0/100	30	1-3/8" ODF	1"
8538720	ORIT-20	0/100	30	1-5/8" ODF	1-5/16"
8538722	SORIT-12	0/100	30	1-1/8" ODF	25/32"
8538725	SORIT-15	0/100	30	1-3/8" ODF	1"
8538730	SORIT-20	0/100	30	1-5/8" ODF	1-5/16"

Sporlan's new line of internally piloted evaporator pressure regulating valves includes three models; (S)ORIT-PI-2, (S)ORIT-PI-3 and (S)ORIT-PI-4 to match customer requirements. All models are available with the optional solenoid stop feature. The electric open feature (E) for two temperature applications is also an option. The standard manual open feature can also be used on two temperature applications. The standard adjustment range is 0 to 100 psig. The standard factory setting is 30 psig. The SORIT-PI models utilize the MKC-1 solenoid coil for the solenoid stop feature. The MKC-1 is also used for the electric open feature on any model.

SORIT-PI SERIES

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538760	SORIT-PI-25S	0/100	70	5/8" ODF	1/2"
8538761	SORIT-PI-27S	0/100	70	7/8" ODF	1/2"
8538762	SORIT-PI-29S	0/100	70	1-1/8" ODF	1/2"
8538763	SORIT-PI-211S	0/100	70	1-3/8" ODF	1/2"
8538765	SORIT-PI-39S	0/100	70	1-1/8" ODF	3/4"
8538766	SORIT-PI-311S	0/100	70	1-3/8" ODF	3/4"
8538767	SORIT-PI-313S	0/100	70	1-5/8" ODF	3/4"
8538769	SORIT-PI-411S	0/100	70	1-3/8" ODF	1"
8538770	SORIT-PI-413S	0/100	70	1-5/8" ODF	1"
8538773	SORIT-PI-29SE	0/100	70	1-1/8" ODF	1"
8538775	SORIT-PI-417SE	0/100	70	2-1/8" ODF	1"
8538777	SORIT-PI-5115	0/100	30	1-3/8" ODF	1-1/4"

CRANKCASE PRESSURE REGULATING VALVES

Sporlan Crankcase Pressure Regulating Valves are designed to prevent overloading of the compressor motor by limiting the crankcase pressure during and after a defrost cycle or after a normal shutdown period. When properly installed in the suction line, these valves automatically throttle the vapor flow from the evaporator until the compressor can handle the load. Sporlan manufactures four adjustable models . . . CRO-6, CROT-6, CRO-10 and CROT-10 . . . all are available with two nominal adjustment ranges: 0 to 60 psig and 30 to 110 psig.

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538138	CROT-6	0/60	30	5/8" SAE Flare	3/4"
8538143	CROT-6	0/60	30	5/8" ODF	3/4"
8538154	CROT-6	0/60	30	7/8" ODF	3/4"
8538165	CROT-10	0/60	30	1-1/8" ODF	1.218"
8538176	CROT-10	0/60	30	1-3/8" ODF	1.218"

HEAD PRESSURE CONTROL VALVES

The design of air conditioning and refrigeration systems utilizing air cooled condensing units involves two main problems which must be solved if the system is to operate reliably and economically . . . high ambient and low ambient operation. If the condensing unit is properly sized, it will operate satisfactorily during extremely high ambient temperatures. However, since most units will be required to operate at ambient temperatures below their design dry bulb temperature during most of the year, the solution to low ambient operation is more complex. Without good head pressure control during low ambient operation, the system can experience both running cycle and off-cycle problems. Two running cycle problems are of prime concern:

1. Since the pressure differential across the thermostatic expansion valve port affects the rate of refrigerant flow, low head pressure generally causes insufficient refrigerant to be fed to the evaporator.
2. Any system using hot gas for defrost or compressor capacity control must have a normal head pressure to operate properly.

In either case failure to have sufficient head pressure will result in low suction pressure and/or iced evaporator coils. The primary off-cycle problem is the possible inability to get the system on-the-line if the refrigerant has migrated to the condenser. The evaporator pressure may not build up to the cut-in point of the low pressure control and the compressor can't start even though refrigeration is required. Even if the evaporator pressure builds up to the cut-in setting, insufficient flow through the TEV will cause a low suction pressure which results in compressor cycling. Sporlan has two methods of head pressure control to solve these system problems . . . one adjustable and one non-adjustable. Each method utilizes two valves designed specifically for this type of application. A drop in the condensing pressure often occurs on air cooled systems as a result of low ambient conditions encountered during fall-winter-spring operation. The Sporlan Head Pressure Control's purpose is to hold back enough of the condensed liquid refrigerant so that some of the condenser surface is rendered inactive. This reduction of active condensing surface results in a rise in condensing pressure and sufficient liquid line pressure for normal system operation.

ORI, ORD AND OROA SERIES

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538355	ORI-6	65/225	120	5/8" ODF	3/4"
8538376	ORI-6	65/225	120	7/8" ODF	3/4"
8538397	ORI-6	65/225	120	1-1/8" ODF	3/4"
8538418	ORI-10	65/225	120	1-1/8" ODF	1.218"
8538439	ORI-10	65/225	120	1-3/8" ODF	1.218"
8538460	ORD-4-20	-	20	5/8" ODF	1/2"
8538464	ORD-4-30	-	30	5/8" ODF	1/2"
8538466	ORD-4-35	-	35	5/8" ODF	1/2"
8538481	OROA-5	-	100	5/8" ODF	5/8"
8538502	OROA-5	-	180	5/8" ODF	5/8"
8538523	OROA-5	-	100	7/8" ODF	5/8"
8538544	OROA-5	-	180	7/8" ODF	5/8"

The LAC valves are non-adjustable head pressure control valves. They are designed to maintain head pressure during low ambient conditions. The LAC valves limit the flow of liquid refrigerant from the condenser while at the same time regulating the flow of discharge gas around the condenser to the receiver. The valve designation LAC stands for Low Ambient Control.

LAC SERIES

ILLCO #	SPORLAN #	SETPOINT RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538184	LAC-4-100	-	100	3/8" ODF	1/2"
8538186	LAC-4-180	-	180	3/8" ODF	1/2"

DEFROST DIFFERENTIAL PRESSURE REGULATING VALVES

The (O)LDR is designed to maintain a differential pressure between the receiver and the liquid header. A pilot differential valve controls the (O)LDR by varying the pressure on top of the main piston. These valves are available in two port sizes, the (O)LDR-15 (1") and the (O)LDR-20 (1-5/16"). Inlet pressure enters the pilot assembly through a passageway in the valve body on the (O)LDR-15, and through an external tube connected to the inlet fitting on the (O)LDR-20. The outlet on the pilot differential valve is connected to the outlet fitting with an external tube on both valves. Sporlan liquid line differential valves have a solenoid bypass feature that allows the valve to remain full open or modulate to maintain a differential. We supply two versions of liquid line differential valves: The OLDR is in the full open position when the coil is de-energized, and it is in the differential operation mode when the coil is energized. The OLDR uses the MKC-2 coil. Refer to Bulletin 30-10 for more information on Sporlan solenoid coils. The LDR is in the differential operation mode when the coil is de-energized, and it is in the full open position when the coil is energized. The LDR uses the OMKC-2 coil. Refer to Sporlan Bulletin 30-10 for more information on Sporlan solenoid coils. The XTM operates identically to the LDR-15 and the XTO operates identically to the LDR-20. The special feature of the XTM and XTO versions are the unique outlet fitting configurations.

ILLCO #	SPORLAN #	OPERATING RANGE (PSIG)	STANDARD SETTING (PSIG)	CONNECTIONS	PORT SIZE
8538189	LDR-20	5/50	18	2-1/8" ODF	1-5/16"

OF SERIES OIL FILTERS

In CFC and HCFC refrigerant systems, "dirty" mineral or alkylbenzene oil was simply replaced. Due to the solvent-like nature and prohibitive cost of changing polyolester (POE) oil used in HFC refrigerant systems, POE oil may continually circulate small suspended contaminants within the system. Additional protection can be designed into an oil filter that will efficiently remove small suspended particles that may, over time, cause unnecessary wear and callbacks. Sporlan's introduction of the OF Series Oil Filter is for the mechanic who desires a filter that will eliminate the recirculation of harmful particles in expensive refrigeration components.

ILLCO #	SPORLAN #	DESCRIPTION	CONNECTIONS	FILTERING AREA (SQ. IN.)	LENGTH (INCHES)	DIAMETER	WORKING PRESSURE (PSI)
8537867	OF-303	Oil Filter	3/8" SAE Flare	325	9.69	3.00	500
8537868	OF-303-BP	Oil Filter with Bypass Feature	3/8" SAE Flare	325	10.63	3.00	500
8537885	ROF-413	Replaceable Oil Filter	Field Supplied	325	8.12	3.50	400

REPLACEMENT FILTER

ILLCO #	SPORLAN #	DESCRIPTION
8537889	OFE-1	Filter Element for ROF-413

OL-60XH SERIES OIL FILTERS

Large operating range – simplifies inventory. Compact design – short arms. Externally adjustable. Utilizes same reliable float construction used in OL-1 and OL-2 Oil Level Controls. Standard 100 mesh inlet strainer. Oil level equalization connection. Interchangeable with existing adaptors for various types of compressors.

ILLCO #	SPORLAN #	DESCRIPTION
8537878	OL-60XH	Wide Range Oil Level Control

CATCH-ALL FILTER-DRIERS

REMOVES MOISTURE — The Catch-All Filter-Drier removes moisture from the refrigerant and lubricant by absorbing and retaining moisture deep within the desiccant granules. The blend of desiccants used in the Catch-All is specially formulated for exceptional moisture removal. The high degree of activation ensures maximum water capacity, which means the core removes a large amount of water in one pass, thereby protecting the expansion valve from possible freeze-up. Since the refrigerant must flow through the core, maximum contact between the two ensures rapid system dehydration.

REMOVES FOREIGN MATTER — Scale, solder particles, dirt, and all types of foreign substances must be removed to protect the compressor, solenoid valves, expansion valves, capillary tubes, and other close tolerance parts of a refrigeration system. The solution to system filtration is the Catch-All Filter-Drier. The Catch-All has been designed to do the job with maximum efficiency. It removes these particles, down to the minimum size, in one pass filtration. Furthermore, the large filtering surface available on the core results in the ability to collect a large amount of dirt with negligible pressure drop. If plugged, the Catch-All will not burst allowing trapped substances back into the system.

REMOVES ACIDS — The Catch-All Filter-Drier is unexcelled in acid removal ability. The hydrochloric, hydrofluoric, and various organic acids found in used oil samples are harmful in a system. These acids are adsorbed and remain on the desiccant in a manner similar to the adsorption of moisture. Laboratory tests have shown that the Catch-All Filter-Drier's desiccant has an acid removal ability superior to other desiccants used in other refrigeration driers. Compared to other filter-driers designed for today's systems, tests show the Catch-All Filter-Drier removes much more acid (on an equal weight basis). The Catch-All has demonstrated excellent field performance in cleaning up severely contaminated systems, whether due to acid, lubricant breakdown, or to hermetic motor burnout. Its success in field service work and in protecting new systems is largely due to its outstanding ability to remove acid and the products of lubricant breakdown.

REMOVES SLUDGE and VARNISH — Even the best refrigeration lubricants frequently break down to produce organic acids and possibly varnish and sludge. These products of lubricant decomposition, typically seen in mineral/alkylbenzene lubricant, are called "oleoresin" and are formed due to excessive heat or air in the system. Varnish can plug small orifices and accumulate on compressor valves causing eventual valve failure.
The ability of various desiccants to remove these products of lubricant decomposition has been evaluated in sealed glass tubes. Of all the desiccants tested, only the desiccant used in the Catch-All Filter-Driers proved capable of removing the products of lubricant breakdown. This ability makes the Catch-All Filter-Drier highly effective in cleaning systems that have had a hermetic motor burnout, and in protecting new systems by preventing an accumulation of these lubricant breakdown products.

LIQUID LINE RATINGS and SELECTION RECOMMENDATIONS FOR 12 - 134a - 22 - 404A - 502 - 507 - 407C - 410A

TYPE	SURFACE FILTERING AREA Square Inches	RATINGS AT STANDARD CONDITIONS															SELECTION RECOMMENDATIONS (Tons)				
		WATER CAPACITY - DROPS										REFRIGERANT FLOW CAPACITY Tons at 1 psi ?P					REFRIGERATION			AIR CONDITIONING	
		R-22 60 PPM		R-134a 50 PPM		R-404A & 507 50 PPM		R-407C 50 PPM		R-410A 50 PPM							COMMERCIAL & LOW TEMPERATURE EQUIPMENT			FIELD REPLACEMENT or FIELD BUILT UP SYSTEMS	
		75°F	125° F	75°F	125° F	75°F	125° F	75°F	125° F	75°F	125° F	22	134a	404A &507	407C	410A	12 & 134a	22	404A, 502 & 507	12 & 134a	22, 407C, & 410A
SEALED TYPE																					
C-032																					
C-032-CAP																					
C-032-S																					
C-032-F	9	61	50	67	48	71	58	52	17	27	20	1.5	1.3	1.0	1.3	1.4	1/4	1/4	1/4	1/2	1/2
C-032-FM																					
C-033												3.5	3.2	2.3	3.2	3.4					
C-033-S												3.8	3.5	2.6	3.5	3.7					
C-052																					
C-052-S																					
C-052-F												2.1	1.9	1.4	1.9	2.0				3/4	3/4
C-052-FM	15	146	119	158	114	169	138	123	40	63	48						1/3	1/3	1/3	thru	thru
C-0525-S												3.4	3.1	2.3	3.1	3.3				1	2
C-053												4.1	3.8	2.7	3.8	4.0					
C-053-S												4.7	4.3	3.1	4.3	4.5					
C-082												2.1	1.9	1.4	1.9	2.0					
C-082-S																					
C-082-5-S												3.7	3.3	2.4	3.3	3.5	1/2	1/2	1/2	3/4	1
C-083	21	240	196	261	188	279	227	202	65	104	78	4.5	4.2	3.0	4.2	4.4	thru	thru	thru	thru	thru
C-083-S												5.2	4.7	3.4	4.7	5.0	1-1/2	1-1/2	1	2	2
C-084												8.7	7.9	5.9	8.0	8.5					
C-084-S												9.6	8.8	6.4	8.8	9.4					
C-162												2.1	1.9	1.4	1.9	2.0					
C-162-S																					
C-1625-S												3.7	3.3	2.4	3.3	3.5					
C-163												4.5	4.2	3.0	4.2	4.4	1	1-1/2	3/4	1	1-1/2
C-163-S	33	346	297	396	285	424	345	307	100	158	119	5.2	4.7	3.4	4.7	5.0	thru	thru	thru	thru	thru
C-164												10.1	9.3	6.8	9.3	9.8	2	3	2	5	5
C-164-S												11.0	10.1	7.3	10.1	10.7					
C-165												13.8	12.6	9.2	12.7	13.4					
C-165-S												15.9	14.5	10.6	14.6	15.5					
C-303												4.6	4.2	3.0	4.2	4.4					
C-303-S												5.3	4.7	3.4	4.7	5.0					
C-304												10.1	9.3	6.8	9.3	9.8	3	3	2	3	4
C-304-S	53	696	567	756	545	809	658	586	189	302	227	11.0	10.1	7.3	10.1	10.7	thru	thru	thru	thru	thru
C-305												14.9	13.6	9.9	13.7	14.5	5	5	5	7-1/2	10
C-305-S												16.9	15.5	11.3	15.5	16.4					
C-307-S												21.6	19.8	14.4	19.9	21.0					
C-414												11.5	10.5	7.6	10.5	11.1					
C-414-S												12.4	11.4	8.3	11.4	12.1					
C-415	67	936	713	1017	733	1088	885	788	254	407	305	15.8	14.5	10.6	14.6	15.4	5	5	5	5	7-1/2
C-415-S												17.5	16.1	11.8	16.2	17.1	thru	thru	thru	thru	thru
C-417-S												22.1	20.3	14.8	20.4	21.5	10	12	10	12	15
C-419-S												24.3	22.3	16.3	22.4	23.7					
C-607-S	106	1392	1134	1512	1090	1618	1316	1172	378	604	454	29.1	26.6	19.5	26.8	28.4	15	15	10	15	20
C-609-S												33.2	30.4	22.3	30.7	32.4					

TYPE	SURFACE FILTERING AREA Square Inches	RATINGS AT STANDARD CONDITIONS									SELECTION RECOMMENDATIONS (Tons)				
		WATER CAPACITY - DROPS						REFRIGERANT FLOW CAPACITY Tons at 1 psi P			REFRIGERATION			AIR CONDITIONING	
		R-22 60 PPM		R-134a 50 PPM		R-404A & 507 50 PPM					COMMERCIAL & LOW TEMPERATURE EQUIPMENT			FIELD REPLACEMENT or FIELD BUILT UP SYSTEMS	
		75°F	125°F	75°F	125°F	75°F	125°F	22	134a	404A & 507	12 & 134a	22	404A, 502 & 507	12 & 134a	22
REPLACEABLE CORE TYPE WITH STANDARD CORES															
C-485-G	64	347	288	583	473	408	309	14.6	13.4	9.8	7-1/2	10	7-1/2	7-1/2	10
C-487-G								23.9	21.9	16.0	12	15	10	12	15
C-489-G								43.2	39.5	28.9		15	10	15	20
C-967-G	128	694	576	1166	946	816	618	39.2	35.9	26.2	20	25	15	20	25
C-969-G								48.7	44.5	32.6	25	35	25	25	35
C-1449-G	192	1041	864	1749	1419	1224	927	59.2	54.1	39.7	30	40	30	30	40
C-14411-G								67.0	61.3	44.8	40	50	35	40	50
C-19211-G	256	1388	1152	2332	1892	1632	1236	84.5	77.3	56.3	50	70	50	50	70
C-19213-G								99.0	90.6	66.2	60	80	55	60	80
C-19217-G								104.0	95.1	69.5	65	85	60	65	85
C-30013-G	294	2670	1878	3912	3009	2631	1992	112.0	102.0	74.5	75	100	70	75	100
C-340017-G	392	3560	2504	5216	4012	3508	2652	134.0	132.0	96.8	110	130	100	110	130

C-SERIES LIQUID-LINE SEALED-CORE DRIERS
SAE FLARE CONNECTIONS

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8521001	C-032	1/4"	3	4.19	1.75
8521010	C-032-F	1/4"	3	3.81	1.75
8521023	C-052	1/4"	5	4.75	2.44
8521045	C-053	3/8"	5	5.19	2.44
8521067	C-082	1/4"	9	5.62	2.62
8521089	C-083	3/8"	9	6.06	2.62
8521112	C-084	1/2"	9	6.31	2.62
8521123	C-162	1/4"	16	6.25	3.00
8521134	C-163	3/8"	16	6.75	3.00
8521156	C-164	1/2"	16	6.94	3.00
8521188	C-165	5/8"	16	7.25	3.00
8521223	C-303	3/8"	30	9.69	3.00
8521245	C-304	1/2"	30	9.88	3.00
8521268	C-305	5/8"	30	10.19	3.00
8521307	C-413	3/8"	41	9.56	3.50
8521318	C-414	1/2"	41	9.94	3.50
8521340	C-415	5/8"	41	10.25	3.50

C-SERIES LIQUID-LINE SEALED-CORE DRIERS
ODF SOLDER CONNECTIONS

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8521007	C-032-CAP-T	Extended 1/4" Male	3	5.81	1.75
8521012	C-032-S	1/4"	3	3.81	1.75
8521034	C-052-S	1/4"	5	4.19	2.44
8521040	C-0525-S	5/16"	5	4.38	2.44
8521056	C-053-S	3/8"	5	4.31	2.44
8521078	C-082-S	1/4"	9	5.12	2.62
8521101	C-083-S	3/8"	9	5.25	2.62
8521114	C-084-S	1/2"	9	5.44	2.62
8521128	C-162-S	1/4"	16	5.75	3.00
8521145	C-163-S	3/8"	16	5.88	3.00
8521167	C-164-S	1/2"	16	6.00	3.00
8521199	C-165-S	5/8"	16	6.31	3.00
8521211	C-167-S	7/8"	16	6.93	3.00
8521234	C-303-S	3/8"	30	8.88	3.00
8521257	C-304-S	1/2"	30	9.00	3.00
8521279	C-305-S	5/8"	30	9.25	3.00
8521285	C-307-S	7/8"	30	9.80	3.00
8521296	C-309-S	1-1/8"	30	9.75	3.00
8521329	C-414-S	1/2"	41	9.05	3.50
8521351	C-415-S	5/8"	41	9.35	3.50
8521373	C-417-S	7/8"	41	9.81	3.50
8521376	C-419-S	1-1/8"	41	9.75	3.50
8521384	C-607-S	7/8"	60	16.00	3.00
8521395	C-609-S	1-1/8"	60	16.00	3.00

Can't find what you're looking for? Give us a call and one of our knowledgeable employees will be happy to help you.

Catch-All

SUCTION LINE FILTER-DRIER RECOMMENDATIONS
FOR CLEANUP AFTER BURNOUT AND NEW SYSTEMS

REFRIGERANT		22					134a			404A				407C	410A
EVAPORATOR TEMPERATURE		40°F	20°F	0°F	-20°F	-40°F	40°F	20°F	0°F	20°F	0°F	-20°F	-40°F	40°F	40°F
PRESSURE DROP (psi)		3.0	2.0	1.5	1.0	0.5	2.0	1.5	1.0	2.0	1.5	1.0	0.5	3.0	3.0
SEALED TYPE - CAPACITY IN TONS	C-083-S-T-HH	2.1	1.3	0.9	0.5	0.2	1.3	0.9	0.5	1.2	0.8	0.5	0.2	2.0	2.7
	C-084-S-T-HH	2.1	1.3	0.9	0.5	0.3	1.4	0.9	0.6	1.3	0.8	0.5	0.3	2.1	2.7
	C-144-S-T-HH	2.1	1.3	0.9	0.4	0.2	1.3	0.8	0.5	0.9	0.6	0.3	0.2	2.1	2.7
	C-145-S-T-HH	3.4	2.2	1.4	0.8	0.2	2.1	1.3	0.8	1.6	1.0	0.6	0.3	3.4	4.6
	C-146-S-T-HH	4.8	3.0	2.0	1.2	0.6	2.9	1.8	1.1	2.1	1.4	0.9	0.4	4.8	6.2
	C-147-S-T-HH	5.3	3.3	2.2	1.3	0.7	3.2	2.1	1.3	2.4	1.6	0.9	0.5	5.3	6.8
	C-149-S-T-HH	7.0	4.4	2.9	1.7	0.9	4.2	2.7	1.6	3.2	2.1	1.2	0.6	7.0	9.0
	C-164-S-T-HH	2.7	1.7	1.1	0.7	0.3	1.7	1.1	0.7	1.6	1.0	0.6	0.3	2.7	3.6
	C-165-S-T-HH	3.2	2.0	1.3	0.8	0.4	2.0	1.3	0.8	1.9	1.2	0.7	0.4	3.2	4.2
	C-166-S-T-HH	4.0	2.5	1.6	1.0	0.5	2.6	1.7	1.0	2.4	1.6	0.9	0.5	3.9	5.2
	C-167-S-T-HH	4.5	2.8	1.8	1.1	0.5	2.8	1.8	2.2	2.7	1.7	1.0	0.5	4.4	5.9
	C-305-S-T-HH	3.4	2.1	1.4	0.8	0.4	2.2	1.4	0.8	2.0	1.3	0.8	0.4	3.4	4.4
	C-306-S-T-HH	4.4	2.8	1.8	1.1	0.5	2.8	1.8	1.1	2.7	1.7	1.0	0.5	4.4	5.8
	C-307-S-T-HH	5.3	3.3	2.2	1.3	0.6	3.4	2.2	1.3	3.2	2.0	1.2	0.6	5.3	7.0
	C-309-S-T-HH	5.9	3.7	2.4	1.5	0.7	3.8	2.4	1.5	3.6	2.3	1.4	0.7	5.8	7.7
	C-417-S-T-HH	6.0	3.8	2.5	1.5	0.7	3.8	2.5	1.5	3.6	2.3	1.4	0.7	6.0	7.9
	C-419-S-T-HH	6.2	3.9	2.5	1.5	0.8	4.0	2.6	1.6	3.7	2.4	1.5	0.7	6.1	8.0
	C-437-S-T-HH	8.0	5.0	3.3	2.0	1.0	5.1	3.3	2.1	4.8	3.1	1.9	0.9	7.9	10.4
	C-439-S-T-HH	10.0	6.3	4.1	2.5	1.2	6.4	4.2	2.5	6.0	3.9	2.4	1.2	9.9	13.1
	C-4311-S-T-HH	11.1	6.9	4.6	2.7	1.4	7.1	4.6	2.8	6.7	4.3	2.6	1.3	10.9	14.4
	C-4313-S-T-HH	12.2	7.6	5.0	3.0	1.5	7.8	5.1	3.1	7.3	4.7	2.9	1.4	12.0	15.9
	C-607-S-T-HH	6.7	4.2	2.7	1.6	0.8	4.2	2.7	1.7	4.0	2.6	1.6	6.6	6.6	8.7
	C-609-S-T-HH	7.5	4.7	3.1	1.8	0.9	4.8	3.1	1.9	4.5	2.9	1.8	7.4	7.4	9.8

REFRIGERANT		22						134a			404A & 507				407C		410A	
EVAPORATOR TEMPERATURE		40°F		20°F	0°F	-20°F	-40°F	40°F	20°F	0°F	20°F	0°F	-20°F	-40°F	40°F		40°F	
PRESSURE DROP (psi)		3.0	8.0*	2.0	1.5	1.0	0.5	2.0	1.5	1.0	2.0	1.5	1.0	0.5	3.0	8.0*	3.0	8.0*
REPLACEABLE CORE TYPE - CAPACITY IN TONS	RSF-487-T	10.1	**17.5**	6.3	4.1	2.5	1.2	6.4	4.2	2.5	6.1	4.0	2.3	1.2	10.0	**17.3**	12.6	**21.9**
	RSF-489-T	12.2	**21.1**	7.6	5.0	3.0	1.5	7.8	5.1	3.1	7.3	4.8	2.8	1.4	12.0	**20.7**	15.3	**26.4**
	RSF-4811-T	14.8	**25.6**	9.3	6.1	3.6	1.8	9.4	6.2	3.7	8.9	5.8	3.4	1.7	14.6	**25.3**	18.5	**32.0**
	RSF-4813-T	15.9	**27.5**	10.0	6.5	3.9	1.9	10.1	6.7	4.0	9.6	6.2	3.6	1.8	15.7	**27.2**	19.9	**34.4**
	RSF-4817-T	17.2	**29.8**	10.8	7.1	4.2	2.1	11.0	7.2	4.4	10.4	6.8	3.9	2.0	17.0	**29.4**	21.5	**37.3**
	RSF-4821-T	18.6	**32.2**	11.6	7.6	4.6	2.3	11.9	7.8	4.7	11.2	7.3	4.3	2.2	18.4	**31.6**	23.3	**40.3**
	RSF-9611-T	23.8	**39.0**	15.9	11.1	7.1	3.9	14.5	10.5	6.7	14.4	9.8	6.2	3.3	22.9	**37.6**	29.8	**48.8**
	RSF-9613-T	29.7	**49.0**	19.8	13.7	8.7	4.7	15.2	13.0	8.1	17.9	12.2	7.6	4.0	28.6	**47.2**	37.1	**61.3**
	RSF-9617-T	29.7	**49.0**	19.8	13.7	8.7	4.7	16.1	13.0	8.1	17.9	12.2	7.6	4.0	28.6	**47.2**	37.1	**61.3**
	RSF-9621-T	29.7	**50.7**	19.8	13.7	8.7	4.7	18.7	13.0	8.1	17.9	12.2	7.6	4.0	28.9	**49.8**	37.1	**61.3**
	RSF-9625-T	30.0	**51.9**	20.0	13.7	8.7	4.7	19.2	13.0	8.1	17.9	12.2	7.6	4.0	29.7	**51.0**	37.5	**63.4**
	C-30013-G	26.6	**46.0**	16.7	10.9	6.5	3.2	16.9	11.0	6.7	16.0	10.3	6.2	3.1	26.3	**42.8**	33.3	**64.9**
	C-30017-G	27.0	**46.7**	16.9	11.1	6.6	3.3	17.2	11.1	6.8	16.2	10.4	6.3	3.1	26.7	**43.3**	33.8	**58.4**
	C-40017-G	32.9	**56.9**	20.6	13.5	8.1	4.0	21.0	13.6	8.3	19.8	12.8	7.2	3.8	32.4	**52.8**	41.1	**71.1**
	C-40021-G thru C-40033-G	32.9	**56.9**	20.6	13.5	8.1	4.0	21.0	13.6	8.3	19.8	12.8	7.2	3.8	32.4	**52.8**	41.1	**71.1**

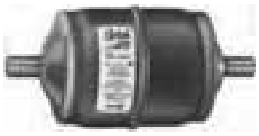
* Denotes TEMPORARY INSTALLATION. Cores for system clean-up; RPE-48 or RPE-100 Filter Elements should be installed after clean-up.

COMPACT STYLE SUCTION LINE FILTER-DRIERS
ODF SOLDER CONNECTIONS

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8521490	C-145-S-TT-HH	1/2" ODF	-	4.14	4.44
8521493	C-146-S-TT-HH	3/4" ODF	-	4.83	4.44
8521496	C-147-S-TT-HH	7/8" ODF	-	4.97	4.44
8521499	C-149-S-TT-HH	1-1/8" ODF	-	4.93	4.44

SUCTION LINE FILTER-DRIERS
ODF SOLDER CONNECTIONS

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8521513	C-084-S-T-HH	1/2"	9	5.44	2.62
8521579	C-164-S-T-HH	1/2"	16	6.00	3.00
8521601	C-165-S-T-HH	5/8"	16	6.31	3.00
8521623	C-166-S-T-HH	3/4"	16	6.75	3.00
8521645	C-167-S-T-HH	7/8"	16	6.93	3.00
8521667	C-305-S-T-HH	5/8"	30	9.25	3.00
8521689	C-306-S-T-HH	3/4"	30	9.65	3.00
8521701	C-307-S-T-HH	7/8"	30	9.80	3.00
8521723	C-309-S-T-HH	1-1/8"	30	9.75	3.00
8521734	C-417-S-T-HH	7/8"	41	9.81	3.50
8521745	C-419-S-T-HH	1-1/8"	41	9.75	3.50
8521767	C-437-S-T-HH	7/8"	48	10.34	4.75
8521789	C-439-S-T-HH	1-1/8"	48	10.74	4.75
8521811	C-4311-S-T-HH	1-3/8"	48	10.94	4.75
8521832	C-4313-S-T-HH	1-5/8"	48	10.94	4.75



REVERSIBLE HEAT PUMP FILTER-DRIER

- A short overall length for easy installation.
- Drier operates in either flow direction with low pressure drop.
- Proven metal check valves used in construction — no synthetic materials.
- The Sporlan dependable molded core used for maximum filtration ability. When the flow direction reverses, dirt already collected remains in the filter-drier.
- A carefully engineered blend of desiccants for maximum water capacity and acid removal ability. The HPC-160-HH Series also has the HH style core with activated charcoal which offers maximum ability to remove oleoresin and other reactive chemical constituents in the oil.
- Same rugged construction as used in the Catch-All.

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8522275	HPC-103	3/8" Flare	10	6.75	3.00
8522276	HPC-103-S	3/8" Solder	10	5.88	3.00
8522280	HPC-163-HH	3/8" Flare	14	7.78	3.00
8522282	HPC-163-S-HH	3/8" Solder	14	6.92	3.00
8522284	HPC-164-HH	1/2" Flare	14	7.95	3.00
8522286	HPC-164-S-HH	1/2" Solder	14	7.07	3.00
8522288	HPC-165-HH	5/8" Flare	14	8.28	3.00
8522290	HPC-165-S-HH	5/8" Solder	14	7.35	3.00

Catch-All®

REPLACEABLE CORE TYPE - LIQUID LINE APPLICATION
FOR CLEANUP AFTER BURNOUT AND NEW SYSTEMS

TYPE	CONNECTIONS Inches ODF Solder	NO. OF CORES	CORE PART NO.	VOLUME OF DESICCANT Cu. In.	MOUNTING BRACKETS	OVERALL LENGTH Inches
C-R424	1/2	1	RCW-42 or	42	A-175-1	9.00
C-R425	5/8					9.06
C-R427	7/8					9.44
C-485	5/8	1	RCW-48, RC-4864, or RC-4864-HH	48	A-685	9.15
C-485-G	5/8					9.15
C-487	7/8					9.30
C-487-G	7/8					9.30
C-489-G	1-1/8					9.50
C-4811-G	1-3/8					9.60
C-4813-G	1-5/8					9.60
C-967	7/8	2		96	A-685	14.84
C-967-G	7/8					14.84
C-969	1-1/8					15.04
C-969-G	1-1/8					15.04
C-9611-G	1-3/8					15.14
C-9613-G	1-5/8					15.14
C-1449	1-1/8	3		144	A-685	20.58
C-1449-G	1-1/8					20.58
C-14411	1-3/8					20.68
C-14411-G	1-3/8					20.68
C-14413-G	1-5/8					20.68
C-19211	1-3/8	4		192	A-685	26.22
C-19211-G	1-3/8					26.22
C-19213	1-5/8					26.22
C-19213-G	1-5/8					26.22
C-19217-G	2-1/8					26.22
C-30013	1-5/8	3	RCW-100, RC-10098, RC-10098-HH	300	A-175-2	27.94
C-30013-G	1-5/8					27.94
C-30017-G	2-1/8					28.06
C-40017	2-1/8	4		400	A-175-2	34.56
C-40017-G	2-1/8					34.56
C-40021-G	2-5/8					34.75
C-40025-G	3-1/8					34.44
C-40029-G	3-5/8					34.81
C-40033-G	4-1/8					35.12
NPT PIPE CONNECTIONS						
C-484-P	1/2	1	RCW-48, RC-4864, or RC-4864-HH	48	A-685	9.08
C-966-P	3/4	2		96		14.67
C-1448-P	1	3		144		20.42
C-19212-P	1-1/2	4		192		25.85
C-40016-P	2	4	RCW-100, RC-10098, or RC-10098-HH	400	A-175-2	34.44

REPLACEABLE CORES AND PLEATED FILTER ELEMENTS

RC-4267 — Activated Core — Order as separate item — Fits ONLY shell types C-R424, C-R425, and C-R427.

RCW-42 — High Water Capacity Core — Order as separate item — Fits ONLY shell types C-R424, C-R425, and C-R427. Designed specially for use with POE oils. This core should be used on systems that have a ruptured water cooled condenser, or that have been exposed to the atmosphere, or for some reason have a high amount of moisture in the system.

RC-4864 — Activated Core — Order as separate item — Fits types C-480 thru C-19200 Series Shells. This is the standard core suitable for most installations in the liquid or suction line.

RCW-48 — High Water Capacity Core — Order as separate item — Fits types C-480 thru C-19200 Series Shells. Designed specially for use with POE oils. This core should be used on systems that have a ruptured water cooled condenser, or that have been exposed to the atmosphere, or for some reason have a high amount of moisture in the system.

RC-4864-HH — Activated Charcoal Core — Order as separate item — Fits types C-480 thru C-19200 Series Shells. This core should be used for wax removal on low temperature R-22 and R-502 systems, and for cleanup of systems that have had a hermetic motor burnout. RPE-48-BD — Filter element — Order as a separate item — Fits types C-480 thru C-19200 Series Shells and Replaceable Suction Filter (RSF) Shells. This element should be used in RSF shells installed in the suction line to obtain the lowest possible pressure drop. In cleaning up a system after a hermetic motor burnout, cores should be used first. Then after the system is thoroughly clean, this filter element can be installed in the RSF shell.

RC-10098 — Activated Core — Order as separate item — Fits types C-30,000 and C-40,000 Series Shells. This core has a high water capacity and should be used on all standard liquid and suction line applications.

RCW-100 — High Water Capacity Core — Order as separate item — Fits types C-30,000 and C-40,000 Series Shells. Designed specially for use with POE oils. This core should be used on systems that have a ruptured water cooled condenser, or that have been exposed to the atmosphere, or for some reason have a high amount of moisture in the system.

RC-10098-HH — Activated Charcoal Core — Order as separate item — Fits types C-30,000 and C-40,000 Series Shells. This core should be used for wax removal on low temperature R-22 and R-502 systems, and for cleanup of systems that have had a hermetic motor burnout.

RPE-100 — Filter Element — Order as a separate item — Fits types C-30,000 and C-40,000 Series Shells. This filter element should be used in the same way as the RPE-48-BD installed in the RSF shell.

ILLCO #	SPORLAN #	TYPE	FOR USE WITH
8522301	RC-4864	Core	C-480 thru C-19200
8522322	RC-4864-HH	Core	C-480 thru C-19200
8522333	RCW-42	Core	C-R424, C-R425, C-R427
8522344	RCW-48	Core	C-480 thru C-19200
8522354	RCW-100	Core	C-30000, C-40000 Series
8522364	RC-10098	Core	C-30000, C-40000 Series
8522385	RC-10098-HH	Core	C-30000, C-40000 Series
8522397	RPE-48-BD	Element	C-480 thru C-19200
8522399	RPE-100	Element	C-30000, C-40000 Series

REPLACEABLE CORE TYPE - LIQUID LINE APPLICATION

ODF SOLDER CONNECTIONS

The rugged construction of the Replaceable Core Catch-All has proven itself in the field for many years. The design features include: 1. The famous molded porous core for maximum contaminant removal. The core cannot swell, powder, or pack — assuring ease of installation and removal; 2. The bolt and nut attachment of the end plate provides simple trouble-free installation; 3. The internal construction gives a one piece assembly and assures proper core alignment; 4. A complete line of fitting sizes — all with copper fittings; 5. No plastic parts are used — all internal parts are plated steel; 6. A corrosion resistant powder paint protects the exterior of the shell.

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8522002	C-485-G	5/8"	48	9.15	6.00
8522023	C-487-G	7/8"	48	9.30	6.00
8522045	C-489-G	1-1/8"	48	9.50	6.00
8522067	C-4811-G	1-3/8"	48	9.60	6.00
8522072	C-4813-G	1-5/8"	48	9.60	6.00
8522089	C-967-G	7/8"	96	14.84	6.00
8522101	C-969-G	1-1/8"	96	15.04	6.00
8522123	C-9611-G	1-3/8"	96	15.14	6.00
8522145	C-9613-G	1-5/8"	96	15.14	6.00
8522167	C-1449-G	1-1/8"	144	20.58	6.00
8522198	C-14411-G	1-3/8"	144	20.68	6.00
8522203	C-14413-G	1-5/8"	144	20.68	6.00
8522211	C-19211-G	1-3/8"	192	26.22	6.00
8522232	C-19213-G	1-5/8"	192	26.22	6.00
8522253	C-19217-G	2-1/8"	192	26.22	6.00
8522255	C-30013-G	1-5/8"	300	27.94	7.50
8522258	C-30017-G	2-1/8"	300	28.06	7.50
8522259	C-40017-G	2-1/8"	400	34.56	7.50
8522261	C-40021-G	2-5/8"	400	34.75	7.50
8522263	C-40025-G	3-1/8"	400	34.44	7.50
8522265	C-40029-G	3-5/8"	400	34.81	7.50
8522267	C-40033-G	4-1/8"	400	35.12	7.50

HH STYLE CATCH-ALL FOR WAX REMOVAL

Small amounts of wax are often a problem on low temperature Refrigerant-22 and Refrigerant-502 systems. Even well engineered systems frequently contain minute quantities of wax which are sufficient to clog expansion valve screens or cause sticking of the valve. Sporlan has developed a special blend of desiccants including activated charcoal which removes small amounts of wax in the liquid line before this wax can cause trouble at the expansion valve. These Catch-All Filter-Driers have been very successful in correcting trouble jobs in the field. By installing HH Style Catch-All Filter-Driers in the liquid line of all low temperature Refrigerant-22 and Refrigerant-502 systems these wax problems can be entirely prevented. In addition to their wax removal ability, these filter-driers will remove all of the other harmful contaminants that the standard filter-driers remove.

ILLCO #	SPORLAN #	CONNECTION SIZE	VOLUME OF DESICCANT (CU. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8521415	C-052-HH	1/4" SAE Flare	5	4.75	2.44
8521425	C-082-HH	1/4" SAE Flare	9	5.62	2.62
8521430	C-083-HH	3/8" SAE Flare	9	6.06	2.62
8521440	C-163-HH	3/8" SAE Flare	16	6.75	3.00
8521445	C-164-HH	1/2" SAE Flare	16	6.94	3.00
8521450	C-165-HH	5/8" SAE Flare	30	7.25	3.00
8521455	C-303-HH	3/8" SAE Flare	30	9.69	3.00
8521460	C-304-HH	1/2" SAE Flare	30	9.88	3.00
8521465	C-305-HH	5/8" SAE Flare	30	10.19	3.00
8521470	C-414-HH	1/2" SAE Flare	41	9.94	3.50
8521475	C-415-HH	5/8" SAE Flare	41	10.25	3.50

SUCTION FILTERS
WITH EXCLUSIVE BI-DIRECTIONAL FEATURE

Sporlan offers an exclusive concept in Suction Filter design — a filter which is Bi-directional. When flow is in one direction, the bypass relief feature is active. If the pressure drop across the element becomes excessive the bypass relief will open slightly to maintain sufficient gas flow and assure proper cooling of the hermetic motor. When the Suction Filter is installed with flow in the opposite direction, the bypass relief feature is inactive and will never open, regardless of the increase in pressure drop. The "-T" in the type number indicates that these models are equipped with an access valve to permit pressure drop readings. The access valve will be operational provided the Suction Filters are installed with the bypass feature inactive.

SELECTION RECOMMENDATIONS

TYPE NUMBER		CONNECTIONS Inches	FLOW CAPACITY IN TONS EVAPORATOR TEMPERATURE																	NOMINAL SYSTEM HORSEPOWER	
			40°F				20°F				0°F				-20°F			-40°F			
			PRESSURE DROP																		
WITHOUT Access Valve	WITH Access Valve		2		3		1-1/2		2		1		1-1/2		1/2	1		1/2			
			REFRIGERANT																	REFRIGERANT	
			12	134a	22	407C	12	134a	22	404A	12	134a	22	404A	12	22	404A	22	404A	22 407C	12, 134a, 404A, 502, 507
SF-114	**–**	1/2 ODF	1.3	1.5	2.4	2.4	0.9	1.0	1.5	1.5	0.6	0.6	1.1	1.0	0.3	0.7	0.6	0.3	0.3	1	1/2
SF-114F	**–**	1/2 SAE	1.2	1.3	2.1	2.1	0.8	0.9	1.4	1.3	0.5	0.5	0.9	0.9	0.3	0.6	0.5	0.3	0.3	1	1/2
SF-115	**–**	5/8 ODF	2.3	2.6	4.1	4.1	1.6	1.7	2.7	2.6	1.0	1.1	1.8	1.7	0.5	1.2	1.1	0.6	0.6	2	1
SF-115-F	**–**	5/8 SAE	2.1	2.3	3.7	3.7	1.4	1.5	2.4	2.3	0.9	0.9	1.6	1.5	0.5	1.0	0.9	0.5	0.5	2	1
SF-283-F	**–**	3/8 SAE	1.1	1.2	2.1	2.0	0.7	0.8	1.3	1.2	0.4	0.5	0.9	0.8	0.3	0.4	0.5	0.3	0.3	1	1/2
–	**SF-285-T**	5/8 ODF	3.5	4.0	6.4	6.2	2.5	2.7	4.0	3.9	1.6	1.7	2.9	2.7	0.9	1.8	1.7	1.0	0.9	4	1-1/2
–	**SF-286-T**	3/4 ODF	4.3	5.1	8.6	8.1	3.1	3.4	5.0	5.1	2.0	2.1	3.6	3.4	1.1	2.2	2.1	1.2	1.1	5	1-1/2
–	**SF-287-T**	7/8 ODF	6.3	7.0	11.1	11.3	4.4	4.6	7.2	7.0	2.7	2.8	5.1	4.6	1.4	3.1	2.9	1.5	1.5	7-1/2	3
–	**SF-289-T**	1-1/8 ODF	8.2	9.2	14.8	14.6	5.7	6.0	9.4	9.2	3.5	3.7	6.6	6.1	1.8	4.0	3.8	2.1	2.0	7-1/2	5
–	**SF-489-T**	1-1/8 ODF	8.7	9.9	16.0	15.7	6.1	6.5	10.0	9.8	3.7	3.9	7.0	6.5	1.9	4.3	4.1	2.2	2.1	10	5
–	**SF-4811-T**	1-3/8 ODF	9.9	11.2	18.4	18.0	6.8	7.3	11.4	11.2	4.2	4.4	7.9	7.4	2.2	4.8	4.6	2.5	2.4	12	5
–	**SF-4813-T**	1-5/8 ODF	11.7	13.3	21.6	21.3	8.1	8.7	13.5	13.3	4.9	5.2	9.4	8.7	2.6	5.6	5.4	2.9	2.8	15	7
–	**SF-6417-T**	2-1/8 ODF	46.7	50.9	91.1	88.9	28.7	31.0	56.9	52.6	15.8	16.4	35.4	31.8	7.2	20.3	17.8	9.3	7.9	55	20
–	**SF-6421-T**	2-5/8 ODF	50.5	62.9	119.0	109.0	36.8	38.6	70.2	64.6	20.2	20.6	44.0	39.4	9.1	25.6	22.3	11.8	10.0	60	30

SUCTION FILTERS WITH BI-DIRECTIONAL FEATURE

ILLCO #	SPORLAN #	CONNECTION SIZE	FILTER AREA (SQ. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8522490	SF-283-F	3/8" SAE	28	8.78	3.00
8522501	SF-285-T	5/8" SAE	28	8.34	3.00
8522506	SF-286-T	3/4" ODF	28	8.79	3.00
8522512	SF-287-T	7/8" ODF	28	8.93	3.00
8522517	SF-289-T	1-1/8" ODF	28	9.51	3.00
8522523	SF-489-T	1-1/8" ODF	48	12.42	3.00
8522528	SF-4811-T	1-3/8" ODF	48	13.10	3.00
8522534	SF-4813-T	1-5/8" ODF	48	13.44	3.00
8522539	SF-6417-T	2-1/8" ODF	388	10.94	4.75
8522545	SF-6421-T	2-5/8" ODF	388	10.94	4.75

REPLACEABLE SUCTION FILTERS

HOW IT'S USED – Sporlan Replaceable Suction Filters are installed in the suction line of refrigeration or air conditioning systems to remove contaminants that may be in the system at startup. The Replaceable Suction Filter has large fittings permitting the use of a small shell on a system with large line sizes, resulting in considerable economy. The angle construction is suitable for flow in either direction, which results in easy installation even on compact racks. The Replaceable Suction Filters should be used with cores for cleaning up a system after a hermetic motor burnout. Select the
RC-4864, RC-4864-HH or RCW-48 replaceable cores. After cleanup, install RPE-48-BD elements in the shells.

SELECTION – The table below gives information for choosing the proper model for a given system. The filter elements are supplied in hermetically sealed metal cans.

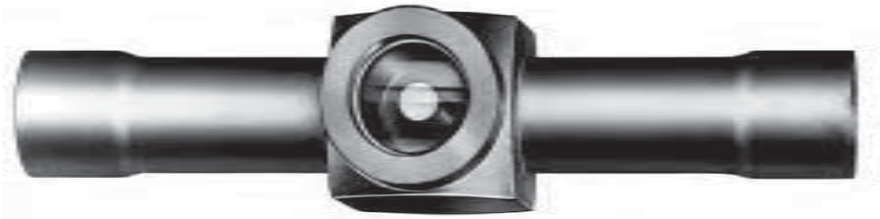
SELECTION RECOMMENDATIONS

TYPE	CONNECTIONS Inches ODF Solder	SYSTEM SIZE – HORSEPOWER																NO. OF FILTER ELEMENTS	FILTER AREA Sq. In.	OVERALL LENGTH
		NEW SYSTEMS (using filter elements)			TEMPORARY APPLICATION, CLEANUP AFTER BURNOUT (using cores)															
					AIR CONDITIONING				COMMERCIAL					LOW TEMPERATURE						
		REFRIGERANT			REFRIGERANT															
		12 & 134a	22 & 407C	404A, 502 & 507	12	134a	22	407C	12	134a	22	502	404A	12	134a	22	502	404A			
RSF-487-T	7/8	7	10	10	9	13	20	17	9	10	17	14	15	6	8	14	10	11			9.30
RSF-489-T	1-1/8	8	15	12	10	16	20	20	11	12	18	14	16	6	10	16	10	11			9.37
RSF-4811-T	1-3/8	10	20	15	12	19	25	25	13	15	20	18	18	7	12	20	12	13	One RPE-48-BD	388	9.60
RSF-4813-T	1-5/8	12	25	20	16	20	25	25	14	16	24	19	22	9	13	21	15	17			9.60
RSF-4817-T	2-1/8	20	35	25	17	22	30	30	15	17	24	21	22	10	14	23	15	17			9.37
RSF-4821-T	2-5/8	25	50	35	19	24	30	30	16	19	27	22	24	10	15	25	15	17			9.75
RSF-9617-T	2-1/8	20	40	30	25	32	40	40	21	25	37	32	34	12	20	34	22	24			14.96
RSF-9621-T	2-5/8	30	50	40	29	38	50	50	25	30	40	35	37	15	24	39	28	31	Two RPE-48-BD	776	15.43
RSF-9625-T	3-1/8	40	80	55	30	38	50	50	25	30	40	35	37	15	24	40	28	31			15.12

ILLCO #	SPORLAN #	CONNECTION SIZE	FILTER AREA (SQ. IN.)	LENGTH (INCHES)	DIAMETER OF BODY (INCHES)
8522560	RSF-487-T	7/8"	388	9.30	6.00
8522564	RSF-489-T	1-1/8"	388	9.37	6.00
8522568	RSF-4811-T	1-3/8"	388	9.60	6.00
8522572	RSF-4813-T	1-5/8"	388	9.60	6.00
8522576	RSF-4817-T	2-1/8"	388	9.37	6.00
8522580	RSF-4821-T	2-5/8"	388	9.75	6.00
8522584	RSF-9617-T	2-1/8"	776	14.96	6.00
8522588	RSF-9621-T	2-5/8"	776	15.43	6.00
8522592	RSF-9625-T	3-1/8"	776	15.12	6.00

See•All COMBINATION MOISTURE AND LIQUID INDICATORS

Most authorities agree on the safe moisture levels for CFC/HCFC refrigerants. The acceptable limit for Refrigerant 12 is 15 ppm, for Refrigerant 22 it is 60 ppm and for Refrigeration 502 it is 30 ppm. For further details consult the ASHRAE Handbook — Refrigeration System Practices. The Sporlan See•All Moisture and Liquid Indicator changes color in the acceptable range for all refrigerants and combines the two functions of moisture and liquid indication into a single economical unit. It takes the guess work out of servicing refrigeration and air conditioning equipment. It is no longer necessary to speculate on the moisture content in circulating refrigerant or whether the system is properly charged. A very reliable scientific principle is utilized in the See•All to accurately determine the moisture content of any halocarbon type refrigerant in accordance with the liquid temperature. The See•All is designed to replace the conventional accessory sight glass generally installed on commercial refrigeration and air conditioning systems.

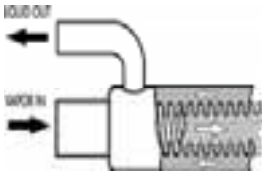


MOISTURE CONTENT PPM

SEE-ALL SHOWS	LIQUID LINE TEMP ---------->	REFRIGERANT R-12		REFRIGERANT R-22		REFRIGERANT R-134a		REFRIGERANT R-502		REFRIGERANT R-404A & R-507		REFRIGERANT R-407C	REFRIGERANT R-410A
		75°F	**100°F**	75°F	**100°F**	75°F	**100°F**	75°F	**100°F**	75°F	**100°F**	75°F	75°F
Green **DRY**		Below 5	Below **10**	Below 30	Below **45**	Below 50	Below **80**	Below 10	Below **20**	Below 15	Below **30**	Below 120	Below 75
Chartreuse **CAUTION**		5-15	**10-30**	30-90	**45-130**	50-200	**80-225**	10-45	**20-65**	15-90	**30-140**	120-280	75-150
Yellow **WET**		Above 15	Above **30**	Above 90	Above **130**	Above 200	Above **225**	Above 45	Above **65**	Above 90	Above **140**	Above 280	Above 150

ILLCO #	SPORLAN #	CONNECTION SIZE	CONNECTION TYPE	OVERALL LENGTH
8535001	SA-12	1/4"	Male Flare	2.87
8535012	SA-12FM	1/4"	Female X Male Flare	2.56
8535023	SA-12S	1/4"	ODF Solder	4.62
8535034	SA-13	3/8"	Male Flare	3.37
8535045	SA-13FM	3/8"	Female X Male Flare	2.97
8535056	SA-13S	3/8"	ODF Solder	4.62
8535061	SA-13SU	3/8"	Swivel Nut X ODF Solder	4.19
8535064	SA-13U	3/8"	Male Flare X Swivel Nut	3.64
8535067	SA-14	1/2"	Male Flare	3.81
8535078	SA-14FM	1/2"	Female X Male Flare	3.44
8535089	SA-14S	1/2"	ODF Solder	4.87
8535094	SA-14SU	1/2"	Male Flare X Swivel Nut	4.62
8535097	SA-14U	1/2"	Male Flare X Swivel Nut	4.13
8535101	SA-15	5/8"	Male Flare	4.13
8535112	SA-15S	5/8"	ODF Solder	4.87
8535117	SA-15SU	5/8"	Swivel Nut X ODF Solder	4.89
8535123	SA-15U	5/8"	Male Flare X Swivel Nut	4.44
8535134	SA-17S	7/8"	ODF Solder	6.31
8535145	SA-19S	1-1/8"	ODF Solder	6.31
8535156	SA-211	1-3/8"	ODF Solder	8.00
8535167	SA-213	1-5/8"	ODF Solder	8.00
8535171	SA-217	2-1/8"	ODF Solder	8.00

PACKLESS REFRIGERANT TURBO HEAT EXCHANGERS



Coaxial design for optimum heat transfer. Sizes fit 1/3 to 80 ton capacity systems. 1/3 HP through 10 HP construction with copper outer tube and brass inner tube. All connections are ID sweat.

ILLCO #	PACKLESS #	LINE SIZES	INSTALLED LENGTH
1548200	HXR-25	1/4"x1/2"	10"
1548205	HXR-50	3/8"X5/8"	11"
1548210	HXR-75	3/8"X7/8"	11"
1548215	HXR-100	3/8"X1-1/8"	11"
1548220	HXR-150	1/2"X1-1/8"	11"
1548225	HXR-250A	5/8"X1-3/8"	11"
1548230	HXR-350A	5/8"X1-5/8"	12"
1548235	HXR-500	7/8"X2-1/8"	12"

SUPERIOR REFRIGERATION PRODUCTS

210 SERIES "TUFFY" LINE SHUT-OFF VALVES

All diaphragm packless valves contain metal diaphragms and backseat metal to metal when the valve is fully open. Controlled stem travel assures life-time diaphragm performance; balanced bearing surfaces and polished stem heads eliminate wear and assure smooth, easy operation. Flow is unrestricted. All OD solder connections for valves 7/8" and smaller are machined to an outside diameter equivalent to the next largest standard size of tubing. Because of their unique construction, Superior diaphragm packless valves can be soldered into the line without disassembly.

ILLCO #	SUPERIOR #	INLET	OUTLET
8763301	214-4	1/4" SAE	1/4" SAE
8763322	214-4S	1/4" ODS	1/4" ODS
8763326	214-4ST	1/4" ODS	1/4" ODS
8763343	214-6	3/8" SAE	3/8" SAE
8763364	214-6S	3/8" ODS	3/8" ODS
8763368	214-6ST	3/8" ODS	3/8" ODS
8763385	215-8	1/2" SAE	1/2" SAE
8763406	215-8S	1/2" ODS	1/2" ODS
8763410	215-8ST	1/2" ODS	1/2" ODS
8763427	216-10	5/8" SAE	5/8" SAE
8763448	216-10S	5/8" ODS	5/8" ODS
8763449	216-10ST	5/8" ODS	5/8" ODS
8763469	217-14S	7/8" ODS	7/8" ODS

NOTE: Superior Valve model numbers with suffix of "ST" denote valves with copper tube extensions.

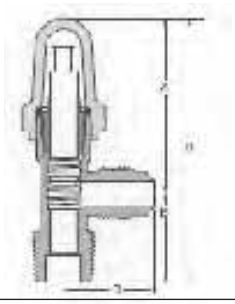
"TUFFY" ANGLE SHUT-OFF VALVES

ILLCO #	SUPERIOR #	INLET	OUTLET
8762423	115-8S	1/2" ODS	1/2" ODS

290C SERIES LPD GLOBE VALVES

The LPD Globe Valves present to the industry a concept in forged brass valves in sizes 7/8" through 3-5/8" which streamlines flow and minimizes pressure drop in an extremely compact design. Inclining the seat to a 70° angle minimizes turbulence and streamlines flow to help obtain the maximum capacity of modern, high performance refrigeration and air-conditioning systems. The "C" series with special non-metallic bonnet gaskets and Teflon seat inserts permit the use of these valves in service temperatures as high as 400°F. Bolted bonnets, which are loosely assembled after factory testing, permit easy disassembly for soldering. Metal-to-metal alignment assures a perfect seal when bonnet is bolted.

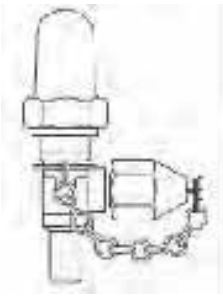
ILLCO #	SUPERIOR #	INLET	OUTLET
8764601	290C-14S	7/8" ODS	7/8" ODS
8764623	291C-11S	1-1/8" ODS	1-1/8" ODS
8764644	292C-13S	1-3/8" ODS	1-3/8" ODS
8764665	293C-15S	1-5/8" ODS	1-5/8" ODS
8764686	294C-21S	2-1/8" ODS	2-1/8" ODS



600A SERIES PACKED ANGLE VALVES

Packed line valves are designed for a multitude of uses in refrigeration systems. When installed properly, these handy, forged brass, packed angle valves provide easy accessibility, and serviceability for the refrigeration system. All packed angle valves are provided with a brass seal cap.

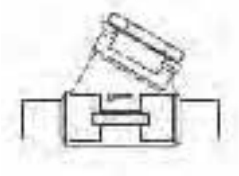
ILLCO #	SUPERIOR #	INLET	OUTLET
8765101	600A-4B	1/4" MPT	1/4" SAE
8765105	600A-4C	3/8" MPT	1/4" SAE
8765110	600A-6B	1/4" MPT	3/8" SAE
8765123	600A-6C	3/8" MPT	3/8" SAE



617A SERIES PACKED ANGLE CHARGING AND PURGING VALVES

The 617A series charging and purging valves are designed to be installed on the branch or run of a solder-type tee. The valve can be readily positioned for easy access. These valves are shipped loosely assembled for easy removal of parts prior to soldering. Reassemble after installation with a standard 3/8" square wrench.

ILLCO #	SUPERIOR #	INLET	OUTLET
8765266	617A-4S4	1/4" ODS	1/4" SAE
8765268	617A-6S4	3/8" ODS	1/4" SAE
8765270	617A-6S6	3/8" ODS	3/8" SAE
8765272	617A-8S4	1/2" ODS	1/4" SAE
8765274	617A-8S6	1/2" ODS	3/8" SAE
8765276	617A-10S4	5/8" ODS	1/4" SAE
8765278	617A-10S6	5/8" ODS	3/8" SAE

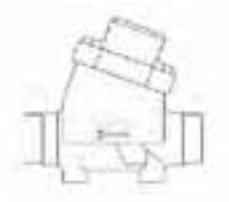


802B SERIES CHECK VALVES

This "Y" type of valve for years has been the most popular design in the refrigeration industry. The internal parts can easily be removed and reassembled after soldering. This basic "Y" type design reduces pressure drop to a very low level. The Teflon seat insert rapidly conforms to the cone type of seating surface in the body. This insures positive shut-off characteristics. This valve minimizes leakage even at the lowest back pressure. A specially designed secondary seat backs up the primary seat, after approximately 10,000 cycles of operation the secondary seat becomes effective. This is done to insure even better shut-off characteristics as the valve wears into service. Upon reassembly of the valve, positive shut-off between the body cap and the body is assured by means of a special gasket seal. All Superior check valves have Teflon seats. These valves may be installed in any position, except upside down. U. L. and C-UL recognized 1/4" through 2-1/8".

ILLCO #	SUPERIOR #	INLET	OUTLET
8765301	802B-4	1/2" SAE	1/2" SAE
8765304	802B-6	3/8" SAE	3/8" SAE
8765306	802B-6ST	3/8" ODS	3/8" ODS
8765307	802B-8	1/2" SAE	1/2" SAE
8765308	802B-8S	1/2" ODS	1/2" ODS
8765309	802B-8ST	1/2" ODS	1/2" ODS
8765311	803B-10S	5/8" ODS	5/8" ODS
8765314	804A-14ST	7/8" ODS	7/8" ODS
8765315	803B-10ST	5/8" ODS	5/8" ODS

NOTE: Superior Valve model numbers with suffix of "ST" denote valves with copper tube extensions.



LINE CHECK VALVES

- Working Pressure: Up to 500 psig
- Construction: All Forged Brass
- Seat Material: Teflon
- Special Non-Metallic Bonnet Gasket
- Service Temperature Up to 400°F
- Low Pressure Drop "Y" Design
- Complete Back-Pressure Shut-Off at Low Pressure Differential
- Time Proven Piston Construction
- Install in Any Position But Upside Down

ILLCO #	SUPERIOR #	INLET	OUTLET
8765313	805C-14S	7/8" ODS	7/8" ODS
8765316	806C-11S	1-1/8" ODS	1-1/8" ODS
8765319	807C-13S	1-3/8" ODS	1-3/8" ODS
8765322	808C-15S	1-5/8" ODS	1-5/8" ODS
8765325	809C-21S	2-1/8" ODS	2-1/8" ODS

SPORT / SPORT II PRESSURE REGULATORS (LESS COIL)

The (S)PORT and (S)PORT-II pressure regulators are a unique line of valves designed specifically for evaporator pressure control in commercial supermarket applications. All (S)PORT regulators are designed to control in a pressure range of 10" Hg to 120 psig (250mm Hg to 8.3 bar). The original (S)PORT, introduced several years ago, continues to be manufactured with a ductile iron body and cartridge assembly. The (S)PORT-II, a more recent addition to the line, is made of completely corrosion resistant materials including aluminum bronze bodies and cartridge assemblies, and stainless steel bolts and adjusting stems. (S)PORT regulators are available in three common versions typically applied on low side applications: A standard upstream pressure regulator, or PORT, a regulator combined with an electric shut-off feature, or (S)PORT, and a unique combination of electric shut and bypass feature, the (S)PORT-B. The (S)PORT version is typically applied on a refrigeration circuit utilizing hot gas for defrosting purposes, while the (S)PORT-B offers the same capability in addition to a wide opening, or bypass feature, for quick pull down during start up or after a circuit's hot gas defrost period has been terminated. A water resistant class F coil and open frame coil housing is standard on the (S)PORT regulator line. Solenoid coils with DIN connectors can also be supplied.

ILLCO #	PARKER #	OPERATING RANGE	DESIGN PRESSURE (M.R.P.)	PORT SIZE	CONNECTIONS
5946862	SPORT II-5-7	10" Hg - 120 psig	450 psig	5/8"	7/8" ODF
5946864	SPORT II-5-9	10" Hg - 120 psig	450 psig	5/8"	1-1/8" ODF
5946866	SPORT II-7-7	10" Hg - 120 psig	450 psig	7/8"	7/8" ODF
5946868	SPORT II-7-9	10" Hg - 120 psig	450 psig	7/8"	1-1/8" ODF
5946872	SPORT II-9-9	10" Hg - 120 psig	450 psig	1-1/8"	1-1/8" ODF
5946873	SPORT II-11-9	10" Hg - 120 psig	450 psig	1-3/8"	1-1/8" ODF
5946878	SPORT II-7-11	10" Hg - 120 psig	450 psig	7/8"	1-3/8" ODF
5946880	SPORT II-9-11	10" Hg - 120 psig	450 psig	1-1/8"	1-3/8" ODF
5946882	SPORT II-11-11	10" Hg - 120 psig	450 psig	1-3/8"	1-3/8" ODF
5946896	SPORT II-9-13	10" Hg - 120 psig	450 psig	1-1/8"	1-5/8" ODF
5946900	SPORT II-11-13	10" Hg - 120 psig	450 psig	1-3/8"	1-5/8" ODF
5946904	SPORT-13-13	10" Hg - 120 psig	450 psig	1-5/8"	1-5/8" ODF
5946908	SPORT 17-17	10" Hg - 120 psig	450 psig	2-1/8"	2-1/8" ODF

A8 PRESSURE REGULATORS

Initially introduced as the A7, the current A8 pressure regulator is designed with flexibility in mind, covering both high and low side applications in commercial refrigeration systems. A dual range spring, standard in all A8 regulators (with the exception of the differential version), allows the valve to control at any set point within a 10" Hg to 400 psi (250mm Hg to 27.6 bar) pressure range. Three body sizes define the A8 line. The A8A is the smallest of the three, the A81 covers the mid-range applications, and the A82 is the largest. Along with the standard A8 inlet pressure regulator, optional variations include inlet regulators with electric shut off features (A8AS, A81S, A82S) and wide opening or bypass features (A8_B). In addition, outlet pressure regulators (A8_OE), outlet regulators with electric shut-off features (A8_OES), differential pressure regulators (A8_L), and differential regulators with wide opening features (A8_BL) round out the product line. Eight different "port" sizes (or capacity cartridges) are available in the A8 family of regulators with connection sizes ranging from 7/8" (22mm) up to 2-5/8" (66mm). All A8 regulators are ductile iron bodied valves with brazed copper couplings. Valve cartridges are also made of ductile iron. A water resistant class "H" coil enclosed in a general purpose coil housing is supplied as standard with any A8 regulator version. Solenoid coils can be supplied either with twin leads or with DIN connectors.

ILLCO #	PARKER #	OPERATING RANGE	DESIGN PRESSURE (M.R.P.)	PORT SIZE	CONNECTIONS
5949000	A8A 5/8-5/8	10" Hg - 400 psig	450 psig	5/8"	5/8" ODF
5949010	A8A 7/8-7/8	10" Hg - 400 psig	450 psig	7/8"	7/8" ODF
5949020	A81 1 1/8-1 1/8	10" Hg - 400 psig	450 psig	1-1/8"	1-1/8" ODF
5949030	A81 1 3/8-1 3/8	10" Hg - 400 psig	450 psig	1-3/8"	1-3/8" ODF

PARTS FOR PRESSURE REGULATORS

ILLCO #	PARKER #	DESCRIPTION
5947370	204986	120V/60Hz Coil and Housing Kit
5947375	204987	208/240V/60Hz Coil and Housing Kit
5947020	200873	Diaphragm Kit
5947125	202700	Solenoid Operator Repair Kit
5947130	202701	Gasket/O-Ring Kit
5947146	202717	Bolt Package
5947350	204928	Cartridge Kit (5/8") - 05
5947355	204929	Cartridge Kit (7/8") - 07
5947360	204930	Cartridge Kit (1-1/8") - 09
5947365	204931	Cartridge Kit (1-3/8") - 11
5947260	203818	Gasket/O-Ring Kit

SERVICE DRIERS

- 100% XH-9 molecular sieve is specially formulated for the new refrigerants and blends, including 134a, 404A, & 507A.
- Compatible with mineral oils and the new synthetics (POEs).
- All copper construction for corrosion resistance.
- Worldwide OEM usage and acceptance.
- UL recognized and CSA certified.

ILLCO #	PARKER #	INLET TUBE SIZE	OUTLET TUBE SIZE	R-12/134a TONNAGE	R-22 TONNAGE
5948012	712	1/4" OD	.089" OD Cap. Tube	1/3	1/2
5948019	619	1/4" OD	.089" OD Cap. Tube	1/3	1/2
5948020	620	5/16" OD	.127" OD Cap. Tube	1	2
5948080	MMS-80	1/4" OD	1/4" OD	1/3	1/2
5948100	MMS-100	1/4" OD	1/4" OD	3/4	1

STRAINERS

Strainers are low cost filtration devices designed to protect refrigeration components, including valves, compressors and capillary tubes, from system contaminants.

- Copper construction to resist corrosion.
- 500 psig design pressure.
- Available in a variety of inlet and outlet sizes.
- UL recognized (File SA-8570) and CSA certified (LR-87950).

ILLCO #	PARKER #	INLET I.D.	OUTLET I.D.	SCREEN
5948001	PS-3S	3/8"	3/8"	120 Mesh Brass
5948003	PS-4S	1/2"	1/2"	100 Mesh Stainless Steel

SUCTION LINE ACCUMULATORS

The Parker "U" tube accumulator design is a result of extensive laboratory testing plus detailed investigation of the various accumulators currently available. It takes into account all of the requirements essential for heat pump applications, including safe holding volume (relative to the system's total charge), protected flow control for positive refrigerant and oil return, and minimum pressure drop across the accumulator. Parker offers standard accumulator models designed for application on heat pump and refrigeration systems from 1/4 through 12 tons. Liquid refrigerant holding requirements of suction accumulator may vary by application. Because of the diversity in heat pump systems, accumulator capacity selection should be determined by actual testing. Consult ILLCO for assistance if required.

ILLCO #	PARKER #	CONNECTION	CAPACITY (OZ.)	EVAP. TEMP (°F)	RECOMMENDED CAPACITY IN TONS						
					R-22, 404		R-12, 401a		R-502, 507		R-134a
					@ 1 PSI	MIN.	@ 1 PSI	MIN.	@ 1 PSI	MIN.	@ 1 PSI
				40	2.10	0.35	1.49	0.25	1.55	0.27	1.75
5949105	PA3060-15-5	5/8" ODF	55	0	1.62	0.25	1.11	0.18	1.16	0.20	1.03
				-20	1.40	0.21	0.95	0.15	0.98	0.16	0.73
				40	2.30	0.35	1.63	0.25	1.70	0.27	1.92
5949110	PA3060-15-6	3/4" ODF	54	0	1.77	0.25	1.22	0.18	1.27	0.20	1.12
				-20	1.53	0.21	1.04	0.15	1.07	0.16	0.80
				40	3.82	0.57	2.71	0.41	2.82	0.46	3.19
5949120	PA5083-9-6C	3/4" ODF	89	0	2.95	0.41	2.03	0.30	2.10	0.33	1.86
				-20	2.55	0.35	1.73	0.24	1.79	0.27	1.32
				40	5.41	0.88	3.82	0.64	4.00	0.70	4.51
5949135	PA5083-12-7C	7/8" ODF	125	0	4.17	0.64	2.87	0.45	2.98	0.51	2.64
				-20	3.61	0.54	2.45	0.37	2.53	0.41	1.87
				40	6.20	0.88	4.39	0.64	4.58	0.70	5.17
5949150	PA5083-15-7C	7/8" ODF	156	0	4.78	0.64	3.29	0.45	3.41	0.51	3.03
				-20	4.13	0.54	2.80	0.37	2.90	0.41	2.15
				40	6.20	0.88	4.39	0.64	4.58	0.70	5.17
5949155	PA5083-17-7C	7/8" ODF	179	0	4.78	0.64	3.27	0.45	3.41	0.51	3.03
				-20	4.13	0.54	2.80	0.37	2.90	0.41	2.15
				40	8.80	3.00	6.00	1.90	7.20	3.00	-
5949165	PA6125-18-9C	1-1/8" ODF	264	0	5.50	2.00	3.70	1.20	4.40	2.00	-
				-20	4.30	0.80	2.80	0.50	3.40	0.80	-
				40	11.00	3.00	7.50	1.90	9.10	3.00	-
5949175	PA6125-20-11C	1-3/8" ODF	302	0	7.00	2.00	4.60	1.20	5.50	2.00	-
				-20	5.40	0.80	3.50	0.50	4.20	0.80	-

COPPER TUBE EXTENSIONS WITH 1/4" ACCESS VALVE

- Furnished with cap and one valve core (braze type loosely assembled)
- Valves are machined according to the strict specifications of the ARI. Your assurance of proper sealing of valve and core surfaces.
- Generous counterbore permits removal of core if flare becomes damaged.
- All tees and crosses are tapped to receive an access core in all 1/4" SAE flare ends.
- All pipe connections have internal ODS braze cups for dip tube.

ILLCO #	J/B #	SIZE	QUANTITY
5831001	A31002	1/8" OD	5
5831067	A31009	1/8" OD	3
5831012	A31003	3/16" OD	5
5831078	A31011	3/16" OD	3
5831023	A31004	1/4" OD	5
5831034	A31005	5/16" OD	5
5831045	A31006	3/8" OD	5
5831056	A31008	1/2" OD	3

COPPER BRAZE TEES WITH 1/4" ACCESS VALVE

- Extra depth slip fit braze cups.
- Bend, cut, flare, swage or pinch.
- Use flux free phos-copper alloy.
- Simple installation anywhere along line.

ILLCO #	J/B #	SIZE	QUANTITY
5831188	A31134	1/4" OD	3
5831199	A31135	5/16" OD	3
5831210	A31136	3/8" OD	3
5831221	A31138	1/2" OD	3
5831232	A31140	5/8" OD	1
5831243	A31142	3/4" OD	1
5831254	A31144	7/8" OD	1
5831265	A31148	1-1/8" OD	1

COPPER UNION WITH 1/4" ACCESS VALVE

- Install valve in any position.
- Use phos-copper alloy.

ILLCO #	J/B #	SIZE	QUANTITY
5831399	A31199	1/4" OD X 1/4" FTG	1
5831420	A31424	1/4" OD X 1/4" FTG	3
5831400	A31200	3/8" OD X 3/8" FTG	1
5831401	A31201	1/2" OD X 1/2" FTG	1
5831402	A31202	5/8" OD X 5/8" FTG	1
5831404	A31204	7/8" OD X 7/8" FTG	1

90° COPPER ELBOW WITH 1/4" ACCESS VALVE

ILLCO #	J/B #	SIZE	QUANTITY
5831286	A31160	5/8" OD	1
5831297	A31162	3/4" OD	1
5831308	A31164	7/8" OD	1
5831319	A31168	1-1/8" OD	1

90° FORGED BRASS ELBOW (1/4" ACCESS VALVE X MPT)

ILLCO #	J/B #	SIZE	QUANTITY
5831594	A31492	1/8" MPT	3

HALF UNIONS (1/4" ACCESS VALVE X MPT)

ILLCO #	J/B #	SIZE	QUANTITY
5831562	A31482	1/8" MPT	5
5831573	A31484	1/4" MPT	5

FORGED BRASS TEE ACCESS VALVES

Pressure Control Adapters.

WITH MALE PIPE THREAD ON BRANCH

ILLCO #	J/B #	SIZE	QUANTITY
5831531	A31452	1/8" MPT	3
5831533	A31454	1/4" MPT	3

WITH MALE PIPE THREAD ON RUN

ILLCO #	J/B #	SIZE	QUANTITY
5831705	A31512	1/8" MPT	3
5831708	A31514	1/4" MPT	3

BRASS 1/4” ACCESS VALVES

ILLCO #	J/B #	SIZE	QUANTITY
5831828	A31722	1/8" OD	3
5831839	A31723	3/16" OD	3
5831850	A31724	1/4" OD	3
5831861	A31725	5/16" OD	3
5831872	A31726	3/8" OD	3

MULTI-STEP BRASS 1/4” ACCESS VALVES

ILLCO #	J/B #	TYPE	QUANTITY
5831817	A31720	3-Way	5
5831883	A31729	9-Way	3

SWIVEL FLARE TEES WITH 1/4” ACCESS VALVE

ILLCO #	J/B #		SIZE	QUANTITY
5831909	A31851	With Depressor	1/4" OD	3
5831911	A31852	With Depressor	1/4" OD	3
5831925	A31864	Without Depressor	1/4" OD	3

FLARE CONNECTION

ILLCO #	J/B #	SIZE	QUANTITY
5831899	A31734	1/4" Fem. SAE	3

ACCESS VALVE COUPLER

ILLCO #	J/B #	SIZE	QUANTITY
5832456	A33004	1/4" SAE	1

COPPER SADDLE VALVES

Quick, clean access to systems under pressure. Eight body sizes contoured to match specific size tube. Hardened steel piercing needle. Furnished with cap. Valve core pre-torqued at 2.9-2.95 in. lb.

ILLCO #	J/B #	SIZE	QUANTITY
5832304	A32904	1/4" OD	5
5832305	A32905	5/16" OD	5
5832306	A32906	3/8" OD	5
5832308	A32908	1/2" OD	3
5832310	A32910	5/8" OD	3
5832312	A32912	3/4" OD	2
5832314	A32914	7/8" OD	2

REFRIGERATION BALL VALVES

Minimum pressure drop with straight through flow and large port design. Copper end fittings reduce installation time without disturbing valve. No bolted or screwed bonnets or flanges to leak. Use with R-12, R-22, R-502, R-123 and R-134a refrigerants. 500 psi working pressure.

ILLCO #	J/B #	SIZE	QUANTITY
5838667	V34200	3/8" OD	1
5838689	V34201	1/2" OD	1
5838702	V34202	5/8" OD	1
5838723	V34204	7/8" OD	1
5838744	V34206	1-1/8" OD	1
5838765	V34207	1-3/8" OD	1
5838786	V34208	1-5/8" OD	1
5838801	V34209	2-1/8" OD	1
5838810	V34210	2-5/8" OD	1
5838811	V34211	3-1/8" OD	1

ILLCO #	J/B #	SIZE	QUANTITY
5838823	V34400	3/8" OD	1
5838824	V34401	1/2" OD	1
5838825	V34402	5/8" OD	1
5838826	V34404	7/8" OD	1
5838827	V34406	1-1/8" OD	1
5838829	V34407	1-3/8" OD	1
5838830	V34408	1-5/8" OD	1
5838831	V34409	2-1/8" OD	1

These ball valves have an access

VALVE CORES

ILLCO #	J/B #	SIZE	QUANTITY
5832113	A31999	1/4"	5

QUICK SEAL GASKETS

ILLCO #	J/B #	SIZE	QUANTITY
5832085	A31985	1/4"	10

Need Thread and Gasket Sealant?

Check out the chemicals section on pages 238 to 265 to find a variety of thread and gasket sealants from your favorite manufacturers.

HELICAL OIL SEPARATORS

Upon separator entry, refrigerant gas containing oil in aerosol form, encounters the leading edge of the helical flighting. The gas/ oil mixture is centrifugally forced along the spiral path of the helix, causing heavier oil particles to spin to the perimeter, where impingement with a screen layer occurs. The screen layer serves dual functions as an oil stripping and draining medium. Separated oil flows downward along the boundary of the shell through a baffle and into the oil collection area at the bottom of the separator. The specially engineered baffle isolates the oil collection area and eliminates oil reentraintment by preventing turbulence. Virtually oil-free refrigerant gas exits through a fitting just below the lower edge of the helical flighting. A float activated oil return valve allows the captured oil to return to the crankcase or oil reservoir, thereby completing the oil circuit.

ILLCO #	AC&R #	CONN. SIZE	DIA.	MAX. CAPACITY IN TONS AT EVAP. TEMP.						MAX DISCHARGE	PRE-CHARGE AMOUNT
				R-134A		R-22		R-404A/507			
				-40°F	40°F	-40°F	40°F	-40°F	40°F	(CFM)	(OZ.)
1105188	S-5188	1-1/8" ODS	4.00	6.00	7.50	9.00	10.50	8.50	11.00	8.00	14.00
1105202	S-5202	2-1/8" ODS	8.00	22.00	27.00	35.00	39.00	31.00	41.00	29.00	25.00
1105203	S-5203	2-5/8" ODS	10.00	46.00	56.00	71.00	80.00	64.00	83.00	60.00	25.00
1105204	S-5204	3-1/8" ODS	12.00	72.00	88.00	112.00	127.00	100.00	131.00	94.00	25.00
1105292	S-5292	1-5/8" ODS	6.00	11.00	13.00	16.00	18.00	15.00	19.00	14.00	25.00

STANDARD OIL SEPARATORS

Refrigerant gas from the compressor containing oil in aerosol form enters the separator and passes through the inlet baffling. As it passes through the inlet screen, the fine particles collide with one another and form heavier particles that impinge on the surface of the shell wall. The gas then passes through the outlet screen where there is a final separation. The oil free gas escapes through the outlet fitting and goes to the condenser. The separated oil drips to the bottom of the separator where a float operated needle valve returns the oil to the crankcase or oil reservoir in the same way as the Helical Oil Separator.

ILLCO #	AC&R #	CONN. SIZE	DIA.	MAX. CAPACITY IN TONS AT EVAP. TEMP.						MAX DISCHARGE	PRE-CHARGE AMOUNT
				R-134A		R-22		R-404A/507			
				-40°F	40°F	-40°F	40°F	-40°F	40°F	(CFM)	(OZ.)
1105587	S-5587	7/8" ODS	4	4.5	5.5	7	8	6.5	8.5	6.5	12

VERTICAL SUCTION ACCUMULATORS

The refrigeration compressor is designed to compress vapor only. A suction line accumulator prevents compressor damage from a sudden surge of liquid refrigerant and oil which could enter the compressor from the suction line. The suction line accumulator is a temporary reservoir for this mixture, designed to meter both the liquid refrigerant and oil back to the compressor at an acceptable rate. This prevents damage to the reed valves, pistons, rods, and crank shafts.

ILLCO #	AC&R #	CONN. SIZE		RECOMMENDED TONS AT SUCTION EVAPORATING TEMPERATURE														
				R-134A					R-22					R-404A/507				
				40°F	20°F	0°F	-20°F	-40°F	40°F	20°F	0°F	-20°F	-40°F	40°F	20°F	0°F	-20°F	-40°F
1107057	S-7057	7/8" ODS	Max.	3.2	1.9	1.2	0.7	0.4	4.5	3.1	2.1	1.3	0.8	4.8	3.2	2.1	1.3	0
			Min.	0.6	0.4	0.2	0.1	0.1	0.9	0.6	0.4	0.3	0.2	0.9	0.6	0.4	0.3	0

New items are being added to our inventory daily. Please give us a call if you can't find what you are looking for.

DISCHARGE LINE MUFFLERS

Mufflers have internal baffles designed for minimum pressure drop. These baffles change the velocity of the discharge gasses passing through the muffler. This results in a dampening effect on high frequency sound waves on high speed compressors. Pulsating waves are also muffled in both low speed and high speed compressors. **Selecting the Size of a Muffler:** Select a muffler with a connection size that matches or exceeds the line size of the compressor discharge line. There are no tonnage ratings for mufflers, since the muffler will remove pulsations from the discharge regardless of flow.

ILLCO #	AC&R #	CONN. SIZE	DIA.	LENGTH
1106407	S-6407	7/8" ODS	4	7
1106411	S-6411	1-1/8" ODS	4	12.75
1106413	S-6413	1-3/8" ODS	4	13.75

LIQUID REFRIGERANT RECEIVERS

Receivers should be selected based on the operating charge for all system components, including the liquid lines. It is usual to add a small percentage to cover the refrigerant in long runs of suction and discharge lines, etc. It is essential that the maximum operating charge be determined, e.g., winter charge in air cooled condenser having flooded head pressure control, this being much greater than the normal summer charge.

ILLCO #	AC&R #	R-134A	R-22	R-404A	INLET	OUTLET
1108065	S-8065	11.6	11.5	10	3/8" Flare	3/8" Flare

HEAT ELEMENTS

Heat elements add heat to oil separators to prevent migration of refrigerant to the vessel during off cycles of the compressor. Heat elements can also be used on suction line accumulators to warm the oil and allow oil return to the compressor on low temperature applications.

ILLCO #	AC&R #	DIA.	WATTAGE	VOLTS
1109101	S-9101	4"	25W	110V
1109111	S-9111	4"	25W	220V
1109112	S-9112	6"	50W	220V

RESERVOIR PRESSURE VALVES

We recommend the use of our Reservoir Pressure Valve with our Oil Reservoir. Mount the valve on the 3 .8" male flare suction vent on top of the Oil Reservoir. The S-9104 maintains a 5 lb. positive pressure differential in the Oil Reservoir over the crankcase pressure. This positive pressure will insure an adequate oil supply to the Oil Level Regulators. The oil level in all the Oil Level Regulators is calibrated at this 5 lb. positive pressure. Some parallel compressor systems have a satellite compressor which maintains a higher suction pressure than the other compressors in the system. The S-9104H provides a 20 lb. positive pressure in the Oil Reservoir for this application.

ILLCO #	AC&R #	PRESSURE SETTING	CONNECTION SIZE
1109104	S-9104H	20 lbs.	3/8" Female X 3/8" Male Flare

ADJUSTABLE OIL LEVEL REGULATOR

The S-9130 regulator allows the oil level in the compressor crankcase to be maintained at any level between 1.4 and 1.2 sight glass. The S-9130 maintains the level at any pressure differential between 5 and 90 psi. If the oil level in the crankcase is too high or too low, the level can be adjusted by turning the adjustment screw on top of the regulator. This can be done while the system is in operation. Our exclusive design eliminates the need of shutting down the system and disconnecting the oil feed lines in order to adjust the regulator.

ILLCO #	AC&R #	PRESSURE DIFFERENTIAL
1109130	S-9130	5-90 psi

HENRY VALVE COMPANY

RELIEF VALVES

ILLCO #	HENRY #	MUELLER #	PRESSURE	SIZE (INLET X OUTLET)
5415010	5221-235	-	235	1/4" MPT X 1/4" MPT
5415015	5223-235	-	235	3/8" MPT X 3/8" MPT
5415020	5230-235	AD15501	235	1/4" MPT X 3/8" FL
5415025	5230-300	AE15501	300	1/4" MPT X 3/8" FL
5415030	5230-350	AG155501	350	1/4" MPT X 3/8" FL
5415035	5230-400	AH15501	400	1/4" MPT X 3/8" FL
5415040	5230-425	AI15501	425	1/4" MPT X 3/8" FL
5415045	5230-450	AJ15501	450	1/4" MPT X 3/8" FL
5415050	5231-235	AD15502	235	3/8" MPT X 3/8" FL
5415055	5231-300	AE15502	300	3/8" MPT X 3/8" FL
5415060	5231-350	AG15502	350	3/8" MPT X 3/8" FL
5415065	5231-400	AH15502	400	3/8" MPT X 3/8" FL
5415070	5231-425	AI15502	425	3/8" MPT X 3/8" FL
5415075	5231-450	AJ15502	450	3/8" MPT X 3/8" FL
5415080	5231A-235	AD15503	235	3/8" MPT X 1/2" FL
5415085	5231A-300	AE15003	300	3/8" MPT X 1/2" FL
5415090	5231A-350	AG15503	350	3/8" MPT X 1/2" FL
5415095	5231A-400	AH15503	400	3/8" MPT X 1/2" FL
5415100	5231A-425	AI15503	425	3/8" MPT X 1/2" FL
5415105	5231A-450	AJ15503	450	3/8" MPT X 1/2" FL
5415110	5232-235	AD15504	235	1/2" MPT X 5/8" FL
5415113	5232-300	AE15504	300	1/2" MPT X 5/8" FL
5415115	5232-350	AG15504	350	1/2" MPT X 5/8" FL
5415120	5232-400	AH15504	400	1/2" MPT X 5/8" FL
5415125	5232-425	AI15504	425	1/2" MPT X 5/8" FL
5415130	5232-450	AJ15504	450	1/2" MPT X 5/8" FL
5415230	5242-300	-	300	3/4" MPT X 3/4" FPT
5415235	5242-425	-	425	3/4" MPT X 3/4" FPT

POSITIVE OIL EXCHANGER VALVES

ILLCO #	HENRY #	PRESSURE	SIZE (INLET X OUTLET)
5419297	9297	500	1/8 MPT X 1/4" FL
5419298	9298	500	1/4" MPT X 1/4" FL

C & D VALVE

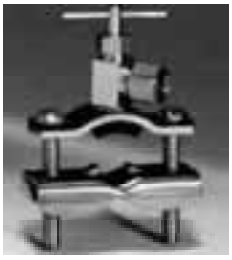
TEE ADAPTERS WITH PORT

ILLCO #	C & D #	SIZE
2407265	CD7265	3/8
2407267	CD7267	1/2
2407268	CD7268	5/8

CORE REMOVAL TOOL

Core Removal Tool (CRT) for use on 1/4” flare access fitting

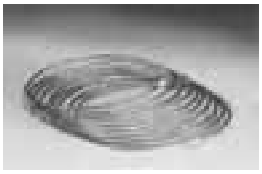
ILLCO #	C & D #	SIZE
2403900	CD3900	-



SELF-TAPPING SADDLE VALVES

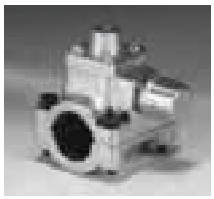
- Self piercing on copper tubing or .035 wall hard PVC.
- Can be installed on pipe with existing hole.
- Fits 3/8" O.D. through 1-3/8" O.D. tubing or pipe.
- Threaded bottom bracket for easier installation.
- Includes all fittings necessary for copper and plastic tubing.
- Stainless Steel piercing needle.
- Molded gasket has a two-stage seal on both tubing and valve.

ILLCO #	SUPCO #	SIZE
8425326	STV2	3/8" - 1-3/8"



CAPILLARY TUBING

ILLCO #	SUPCO #	SIZE	COIL LENGTH
8421304	BC1	.081" OD	10'
8421405	BC2	.093" OD	12'
8421506	BC3	.093" OD	12'
8421607	BC4	.125" OD	12'
8421708	BC5	.071" OD	10'



BULLET PIERCING VALVES

SUPCO'S Bullet Piercing Valve utilizes the same type of gasket found under the head plate of most air conditioning compressors. When installed, the gasket actually compresses the copper tubing .020" creating a "Permanent", leakproof seal that will withstand any pressure and temperature for the life of the unit.

ILLCO #	SUPCO #	SIZE
8421809	BPV12	1/2"
8421910	BPV14	1/4"
8422001	BPV21	1/2", 5/8"
8422102	BPV31	1/4", 5/16", 3/8"
8422203	BPV34	3/4"
8422304	BPV36	3/16"
8422405	BPV38	3/8"
8422506	BPV56	5/16"
8422607	BPV58	5/8"
8422625	BPV78	7/8"

SELF-TAPPING VALVES

ILLCO #	SUPCO #	SIZE
8423825	FTV12	7/8"
8424001	FTV34	1"

See our **Chemicals and Supplies** section for Thread Sealants, Solder, Flux, Leak Detectors, and Chemicals.