

Technical Catalog



Featured Products ...



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Slim Contour
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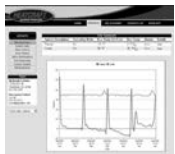
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Thin Profile Air Defrost

Overview



Product Description

Model TA is a thin profile air defrost unit which mounts in the top of a refrigerator and makes the entire top shelf area usable. The attractive low silhouette makes the unit particularly desirable for display type refrigerators. It can also be used in back bars, under counter cabinets, or wherever space is at a premium and is ideal for 35° to 45°F fixtures at 10° to 15° TD applications with 16 hours maximum compressor run time per day.

Certifications



Standard Features

- Textured aluminum cabinet
- Molded Polycarbonate guards and fans
- Drain fitting mounted at 45° angle so drain can be run through back or bottom of refrigerator
- Expansion valve can be mounted inside the cabinet
- Stainless steel screws
- Motors are thermally protected and permanently lubricated
- Convenient, moisture proof motor plug
- Compact design achieves a big job in a small space
- Internal junction box for electrical connection
- Sweat inlet connection standard to reduce leaks

Options

- Flare connection available as a ship loose option
- Optional coated coil available (Model TAK) for enhanced protection in corrosive environments

Nomenclature

TA	K	17	B	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
Thin Profile Air Defrost	Blank = Standard K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Thin Profile Air Defrost

Specifications

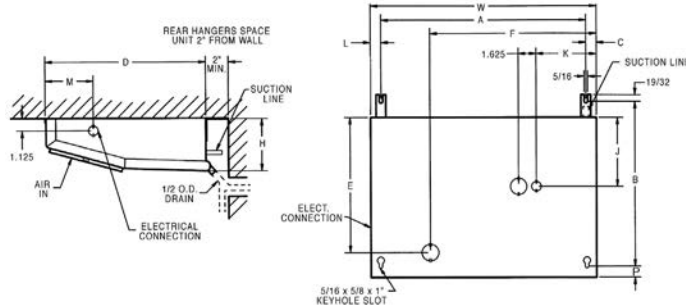
Performance & Electrical Data

Model TA(K)43 and TA(K)55 require an external equalized expansion valve

Climate Control Base Model	Capacity (BTUH) 10°F TD	CFM	No. of Fans	Motor Data		Connections (in.)			Approx. Ship Wt. (lbs)
				115/1/60 Total FLA	208-230/1/60 Total FLA	Coil Inlet OD	Suction ID	Drain OD	
TA(K)10	1,000	120	1	0.8	0.4	3/8	3/8	1/2	14
TA(K)13	1,300	170	2	1.6	0.8	3/8	3/8	1/2	17
TA(K)17	1,700	210	2	1.6	0.8	3/8	3/8	1/2	21
TA(K)23	2,300	330	3	2.4	1.2	3/8	3/8	1/2	28
TA(K)30	3,000	360	3	2.4	1.2	3/8	1/2	1/2	33
TA(K)43	4,300	540	4	3.2	1.6	1/2	5/8	1/2	44
TA(K)55	5,500	650	5	2.0	2.0	1/2	5/8	1/2	53

Dimensional Data

Climate Control Base Model	Dimensions (in.)											
	A	B	C	D	E	F	H	J	K	L	M	W
TA(K)10	14 5/8	14	15/16	13 1/2	10 1/2	11 3/8	4 1/2	8 7/8	2 1/2	15/16	4 3/8	16 1/2
TA(K)13	18 5/8	14	15/16	13 1/2	10 1/8	10 1/4	4 1/2	8 3/8	9 1/2	15/16	4 3/8	20 1/2
TA(K)17	22 1/8	15	15/16	14 1/2	11 1/8	12	4 1/2	9 3/8	11 1/4	15/16	4 3/8	24
TA(K)23	29 3/4	15	15/16	14 1/2	13	20 7/8	4 1/2	10 3/4	10 1/4	15/16	4 3/8	31 5/8
TA(K)30	38 1/8	15	15/16	14 1/2	13	29 3/4	4 1/2	10 3/4	9 3/4	15/16	4 3/8	40
TA(K)43	51 1/2	15	15/16	14 1/2	13	48 3/4	4 1/2	10 3/4	13 1/4	15/16	4 3/8	53 3/8
TA(K)55	51 1/2	15	15/16	14 1/2	13	49	6 3/4	10 3/4	11	15/16	4 3/8	53 3/8



Thin Profile Electric Defrost

Overview



Product Description

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 +20°F. to -20°F., this unit is ideally suited applications including commercial freezers, ice cream boxes, bakery freezers and dual-temp reach-in boxes. Mechanical contact is provided between the heater elements and the drain pan, ensuring a warm pan during the defrost cycle. Opting for EC motors makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

- Electric defrost ensures positive heat source
- Built-in fan delay allows coil to be chilled before returning to the normal cooling cycle
- Defrost terminates on coil temperature eliminating excessive defrost period
- Textured aluminum cabinet
- Molded Polycarbonate guard
- Knockouts provided on sides for electrical connections - opening in rear for coil connections
- Expansion valve can be mounted inside the cabinet
- Stainless steel screws
- Motors are thermally protected and permanently lubricated
- Internal junction box for electrical connection
- Plate type aluminum fins with full collars on expanded copper tubes
- Coils are dehydrated and sealed
- Easy to install and maintain
- Sweat inlet connection to reduce leaks
- All models UL listed for the US and Canada
- UL classified to NSF standards Dimensional Data

Options

- Flare connection available as a ship loose option
- EC motors available for some models

Nomenclature

TL	12	B	G
Model Series	Model Size	Electrical Code	Vintage
Thin Profile Electric Defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Thin Profile Electric Defrost

Specifications

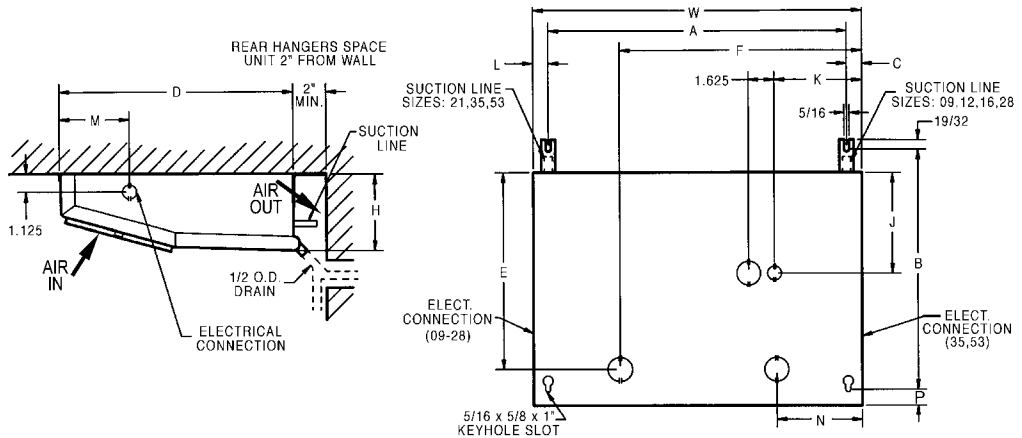
Performance & Electrical Data

Models TL35 and TL55 require an external equalized expansion valve

Climate Control Base Model	Capacity (BTUH)		Motor Data				Connections (in.)			Approx. Ship Wt. (lbs)	Defrost Heater Data		
	10°F TD 20°F SST	10°F TD -10°F SST	CFM	No. of Fans	115/1/60 Total FLA	208-230/1/60 Total FLA	Coil Inlet OD	Suction ID	Drain OD		Watts	115/1/60 Amps	208-230/1/60 Amps
TL09	1,050	900	110	1	0.8	0.4	3/8	3/8	1/2	14	475	4.1	2.1
TL12	1,380	1,200	210	2	1.6	0.8	3/8	1/2	1/2	19	600	5.2	2.6
TL16	1,780	1,600	210	2	1.6	0.8	3/8	1/2	1/2	23	700	6.1	3.0
TL21	2,400	2,100	240	1	1.0	0.5	3/8	1/2	1/2	24	1,100	9.6	4.8
TL28	3,200	2,800	335	3	2.4	1.2	3/8	1/2	1/2	27	1,430	11.4	5.7
TL35	4,000	3,500	420	2	-	1.0	1/2	5/8	1/2	38	1,600	-	7.0
TL53	6,100	5,300	595	3	-	1.5	1/2	7/8	1/2	53	1,950	-	8.5

Dimensional Data

Climate Control Base Model	Dimensions (in.)													
	A	B	C	D	E	F	H	J	K	L	M	N	P	W
TL09	14 5/8	14	15/16	13 1/2	10 1/2	11 3/8	4 1/2	8 7/8	2 1/2	15/16	4 3/8	-	1	16 1/2
TL12	18 5/8	14	15/16	13 1/2	10 1/8	10 1/4	4 1/2	8 3/8	9 1/2	15/16	4 3/8	-	1	20 1/2
TL16	22 1/8	15	15/16	14 1/2	11 1/8	12	4 1/2	9 3/8	11 1/4	15/16	4 3/8	-	1	24
TL21	22 1/8	16 1/2	15/16	16 1/2	14 1/2	18 7/8	6 3/4	11 7/8	17 1/4	15/16	4 3/8	-	1 1/2	24
TL28	29 3/4	15	15/16	14 1/2	13	20 3/4	6 3/4	9 3/4	9 7/8	15/16	4 3/8	-	1	31 5/8
TL35	35 3/4	16 1/2	15/16	16 1/2	14 1/2	33 1/4	6 3/4	11 5/8	18 3/8	15/16	6	5 1/8	1 1/2	38 3/8
TL53	46 1/2	16 1/2	1 1/8	16 1/2	14 1/2	44	6 3/4	11 5/8	30 3/8	1 1/2	6	5 1/8	1 1/2	49 1/8



EC Motors Available!

Standard motors on all models are shaded pole. EC motors are also available on Models TL21, TL35, and TL55. Contact your local Sales Representative or Account Engineer for more information.

C Profile

Overview



Product Description

Model C is 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. Opting for EC motors makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

- Textured aluminum cabinet
- Molded Polycarbonate guard
- Drain fitting at 45-degree angle so drain can be run through bottom or back of refrigerator
- Aluminum hangers automatically space the unit to the correct distance from the back wall
- Stainless steel screws prevent rust streaks
- Room for expansion valve inside the unit
- Knockouts in sides and top plus openings in rear provide maximum flexibility for electrical connection
- Full collar aluminum fins on expanded copper tubes
- Internal junction box with pigtail leads for electrical connection
- Motors are thermally protected and permanently lubricated
- Sweat inlet connection standard to reduce leaks
- All models UL listed for US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option
- Optional coated coil available (Model CK) for enhanced protection in corrosive environments
- EC motors available

Nomenclature

C	K	43	B	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
High Profile Unit Cooler	Blank = Standard K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

C Profile

Specifications

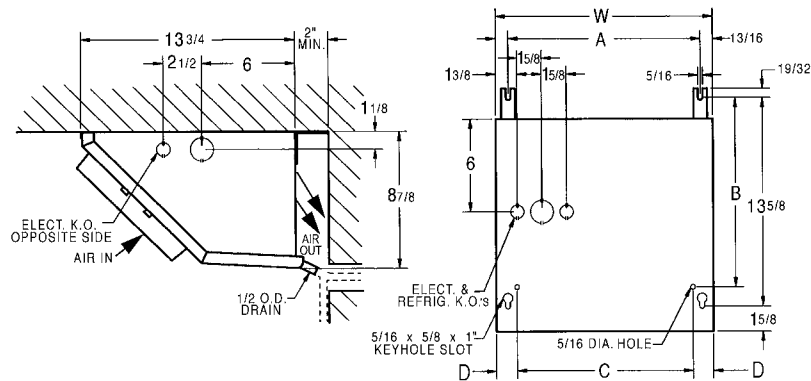
Performance & Electrical Data

Model C(K)43 requires an external equalized expansion valve

Climate Control Base Model	Capacity (BTUH) 10°F TD	CFM	No. of Fans	Motor Data		Connections (in.)			Approx. Ship Wt. (lbs)
				115/1/60 Total FLA	208-230/1/60 Total FLA	Coil Inlet OD	Suction ID	Drain OD	
C(K)13	1,300	235	1	1.0	0.5	3/8	3/8	1/2	16
C(K)17	1,700	250	1	1.0	0.5	3/8	1/2	1/2	17
C(K)23	2,300	265	1	1.0	0.5	3/8	1/2	1/2	22
C(K)30	3,000	480	2	2.0	1.0	3/8	1/2	1/2	27
C(K)43	4,300	520	2	2.0	1.0	1/2	1/2	1/2	40

Dimensional Data

Climate Control Base Model	Dimensions (in.)				
	A	B	C	D	W
C(K)13	12 5/8	12 3/8	11 7/16	1 3/8	14 1/4
C(K)17	15 5/8	12 3/8	14 7/16	1 3/8	17 1/4
C(K)23	21 1/8	12 3/8	21 1/16	7/8	22 3/4
C(K)30	25 15/16	12 3/8	25 13/16	1	27 3/4
C(K)43	36 5/16	-	-	-	38

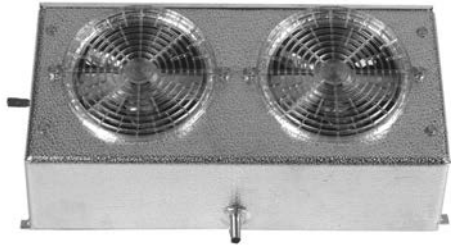


EC Motors Available!

Standard motors on all models are shaded pole. EC motors are also available on all models. Contact your local Sales Representative or Account Engineer for more information.

V Profile

Overview



Product Description

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 the unit. The unit can be mounted from the ceiling or off the back wall or end walls, or can be used in a mullion application. Opting for EC motors makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

- Textured aluminum cabinet
- Molded Polycarbonate fan guard
- Improved drain pan overlaps coil surface to catch all condensate
- Stainless steel screws prevent rust streaks
- Plate-type aluminum fins with full collars on expanded copper tubes
- Expansion valve can be mounted inside the cabinet
- Internal junction box for electrical connection
- Pigtail leads in junction box
- Motors are thermally protected and permanently lubricated
- Top quality throughout in a compact size
- Sweat inlet connection standard to reduce leaks
- All models UL listed for US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option
- Optional coated coil available (Model VAK) for enhanced protection in corrosive environments
- EC motors available for some models

Nomenclature

VA	K	08	A	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
V Profile Unit Cooler	Blank = Standard K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

V Profile

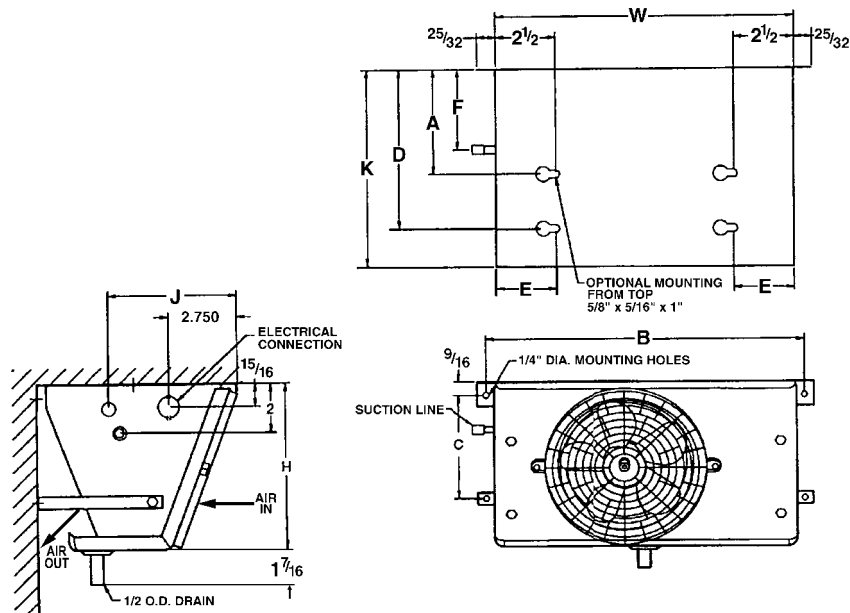
Specifications

Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH) 10°F TD	Motor Data				Connections (in.)			Approx. Ship Wt. (lbs)
		CFM	No. of Fans	115/1/60	208-230/1/60	Coil Inlet OD	Suction ID	Drain OD	
				Total FLA	Total FLA				
VA(K)06	600	135	1	0.8	0.4	3/8	3/8	1/2	9
VA(K)08	800	130	1	0.8	0.4	3/8	3/8	1/2	9
VA(K)12	1,200	265	2	1.6	0.8	3/8	3/8	1/2	14
VA(K)17	1,700	245	1	1.0	0.5	3/8	3/8	1/2	11

Dimensional Data

Climate Control Base Model	Dimensions (in.)									
	A	B	C	D	E	F	H	J	K	W
VA(K)06	4 5/16	13 1/4	4 5/16	-	-	3 3/8	6 7/8	5 1/4	8 1/8	12 1/4
VA(K)08	4 5/16	13 1/4	4 5/16	-	-	3 3/8	6 7/8	5 1/4	8 1/8	12 1/4
VA(K)12	4 1/2	18 3/4	5 5/16	-	-	3 3/8	8	4 7/8	8 1/8	18
VA(K)17	5 1/4	14 3/4	5 1/4	9	2 1/2	4	9 3/4	6 13/16	10 1/2	14



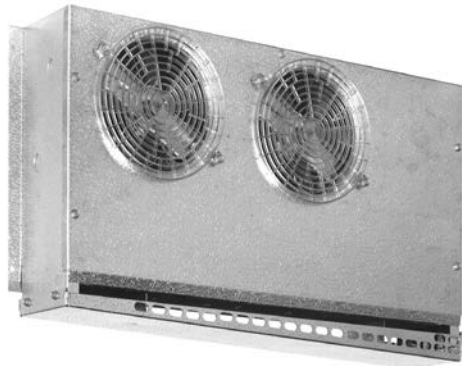
EC Motors Available!

Standard motors on all models are shaded pole. EC motors are also available on Models VA(K)17. Contact your local Sales Representative or Account Engineer for more information.

Section 1

Back Bar

Overview



Product Description

Model BB, available in medium and low temperature, a compact, wall-mounted units featuring a low height making them ideal for under counter reach-in or drawertype fixtures. The unit draws air in at the bottom and discharges out the front. An optional air deflector is included and can be mounted over the center of the fan to direct air up and out. The deflector can be fieldformed to direct the air where needed, usually onto drop-in trays of condiments in salad bar or sandwich preparation fixtures. An S-type mounting angle is included to position the unit 3/4" off the wall, allowing for optimum air circulation and performance.

Certifications



Standard Features

- Molded Polycarbonate fan guards
- Coils have copper tubes with aluminum fins, mechanically bonded for efficient heat transfer. The coils are dehydrated and sealed
- Textured aluminum cabinet
- Knockouts are conveniently located for refrigerant lines
- Screws are hardened, stainless steel
- Expansion valve can be mounted inside the cabinet and connections are sweat-type
- Motors are thermally protected and permanently lubricated
- Master units include the basic unit plus factory mounted expansion valve, solenoid, and temperature control. Also right-hand piping extended 8" - 12" outside the housing, sealed and pressurized to 20 - 30 PSI. A 1/4" OD liquid feed to slave is included
- Slave units include the basic unit plus factory mounted expansion valve with left-hand piping extended 8" - 12" outside the housing, sealed and pressurized to 20 - 30 PSI
- Sweat inlet connection to reduce leaks

Options

- Flare connection available as a ship loose option
- Consult Factory for 208-230V units

Nomenclature

BB	L	S	10	A	G
Model Series	Unit Temp	Unit Type	Model Size	Electrical Code	Vintage
Back Bar Unit Cooler	L = Low M = Medium	Blank = Standard S = Slave M = Master	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Back Bar

Specifications

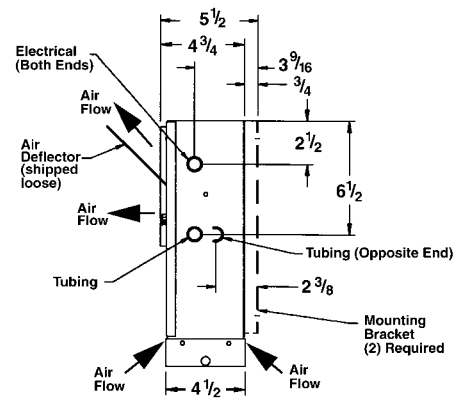
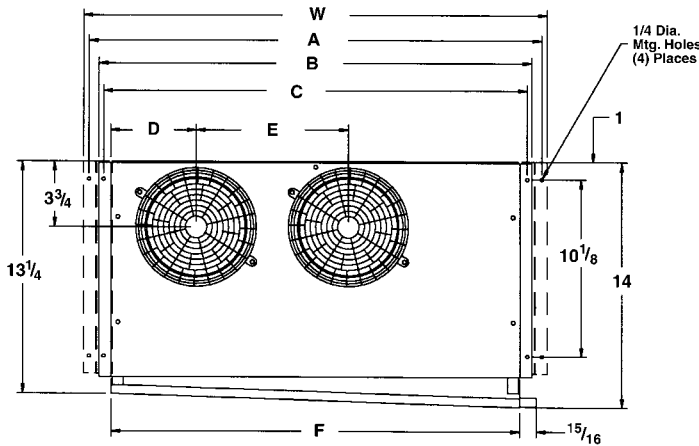
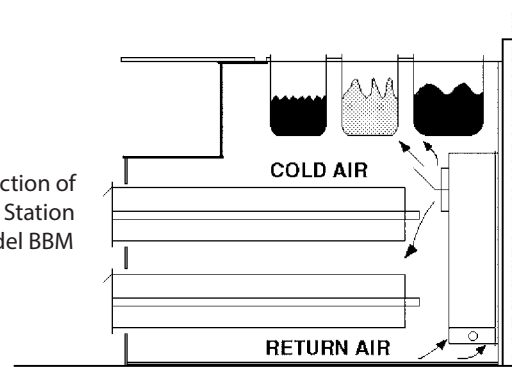
Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH) 10°F TD	Motor Data					Approx. Ship Wt. (lbs)	Defrost Heater Data		
		CFM	No. of Fans	Motor HP	115/1/60 Total FLA	208-230/1/60 Total FLA		Watts	115/1/60 Amps	208-230/1/60 Amps
BBL10	1,000	90	1	1/150	0.8	0.4	17	275	2.7	1.4
BBM11	1,100	90	1	1/150	0.8	0.4	16	-	-	-
BBL15	1,500	180	2	1/150	1.6	0.8	20	350	3.5	1.7
BBM16	1,600	180	2	1/150	1.6	0.8	19	-	-	-

Dimensional Data

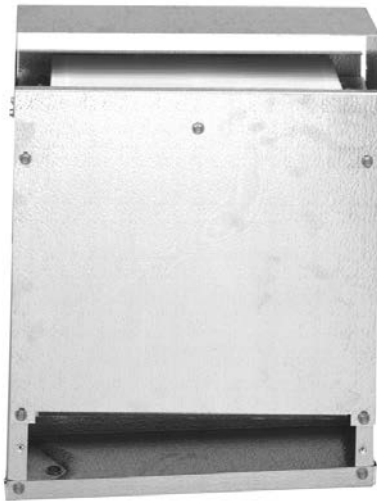
Climate Control Base Model	Dimensions (in.)						
	A	B	C	D	E	F	W
BBL10	19 1/8	18	17 1/2	7 1/16	-	16 5/8	19 3/4
BBM11	19 1/8	18	17 1/2	7 1/16	-	16 5/8	19 3/4
BBL15	25 5/8	24 1/2	24	4 13/16	8 5/8	23 1/8	26 1/4
BBM16	25 5/8	24 1/2	24	4 13/16	8 5/8	23 1/8	26 1/4

Typical Section of Sandwich Station Model BBM



Mullion

Overview



Product Description

Model KMK is ideal for under-counter reachin refrigerators. The thin line design allows the unit to be mounted behind the mullion with sufficient clearance for tray slides. A down flow fan arrangement is used with air drawn in at the top and discharged at the bottom. This design provides superior air circulation and ensures uniform temperature throughout the cabinet. This versatile design is also adaptable for mounting on the back wall or ends of a cooler. The method of air circulation ensures minimum box temperature rise when the cabinet doors are open. Ideal for bottled goods and beverage coolers.

Certifications



Standard Features

- Light grained aluminum cabinets
- PVC coated fan guard
- Stainless steel hardware
- Coils have full collar aluminum fins on expanded copper tubes
- Coated coil for enhanced protection in corrosive environments
- Refrigerant connection knockouts provided on both ends of unit
- Expansion valve can be mounted inside the cabinet
- Motors are thermally protected and permanently lubricated
- Internal junction box for electrical connection
- Adjustable air deflector included provides different air patterns. Air can be directed where it's needed
- Sweat inlet connection to reduce leaks
- All models UL listed for the US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option

Nomenclature

KM	K	13	A	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
Kompact Mullion	K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Mullion

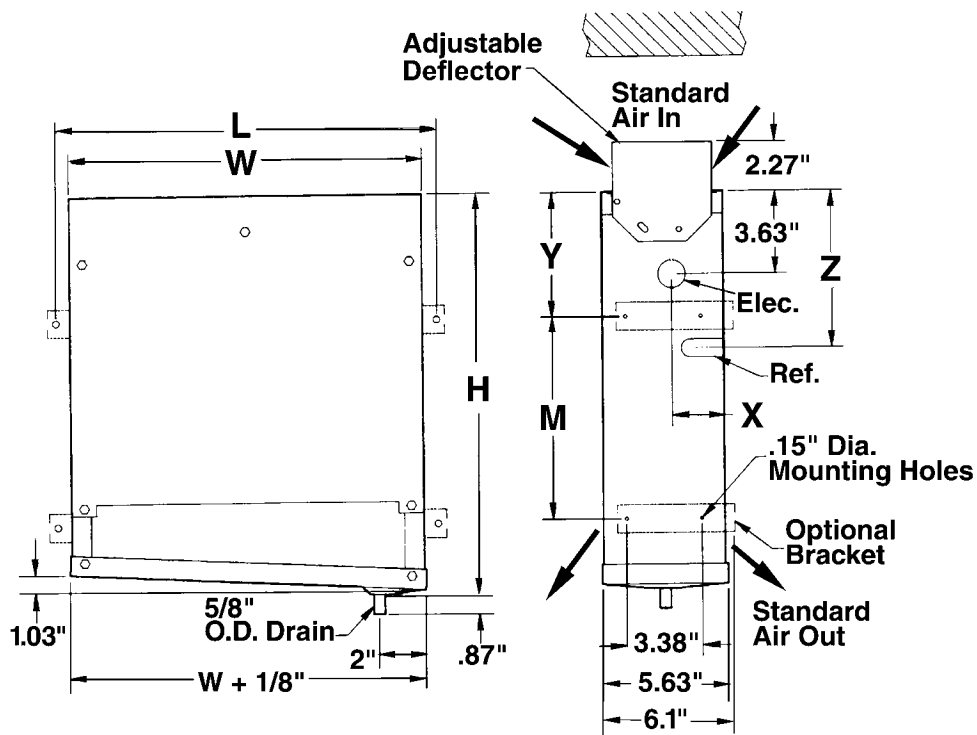
Specifications

Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH) 10°F TD	Motor Data				Connections (in.)			Approx. Ship Wt. (lbs)
		CFM	No. of Fans	115/1/60	208-230/1/60	Coil Inlet OD	Suction ID	Drain OD	
				Total FLA	Total FLA				
KMK13	1,300	180	2	1.6	0.8	3/8	3/8	5/8	19
KMK17	1,700	170	2	1.6	0.8	3/8	3/8	5/8	20
KMK23	2,300	255	3	2.4	1.2	3/8	1/2	5/8	28

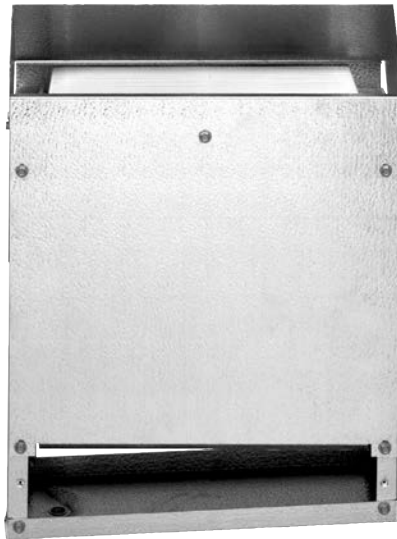
Dimensional Data

Climate Control Base Model	Dimensions (in.)						
	H	L	M	W	X	Y	Z
KMK13	17 3/4	16 7/8	9	15 5/8	2 3/4	5 1/2	6 15/16
KMK17	19 3/4	16 7/8	10	15 5/8	2 3/4	6 1/2	7 15/16
KMK23	19 3/4	23 1/4	10	22	2 5/16	6 1/2	7 15/16



Reverse Mullion

Overview



Product Description

Model RAMK is ideal for under-counter reach-in refrigerators, under-counter drawer type refrigerators and salad bars. The unit is suitable for mounting behind a mullion or on a wall. An up flow air pattern is used with air drawn in at the bottom and discharged out the top. This provides optimum temperature for drop in trays on salad bars or prep tables. It also keeps drawer stored product in premium condition.

An adjustable and detachable air deflector/splash protector is included. The deflector can be adjusted to direct the air up and out at a 45° angle. This feature provides excellent air distribution over drop in trays or containers. Food in the trays and containers stays colder, lasts longer, and retains the desired appearance. The deflector can be adjusted to distribute air out both sides when used as a mullion unit.

Certifications



Standard Features

- Textured aluminum cabinet
- PVC coated fan guard
- Stainless steel hardware
- Coils have full collar aluminum fins on expanded copper tubes
- Coated coil for enhanced protection in corrosive environments
- Refrigerant connection knockouts provided on both ends of unit
- Expansion valve can be mounted inside the cabinet
- Motors are thermally protected and permanently lubricated
- Internal junction box for electrical connection
- Adjustable air deflector included provides different air patterns. Air can be directed where it's needed
- Sweat inlet connection standard to reduce leaks
- All models are UL listed for the US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option

Nomenclature

RAM	K	13	A	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
Reverse Air Flow Kompact Mullion	K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Reverse Mullion

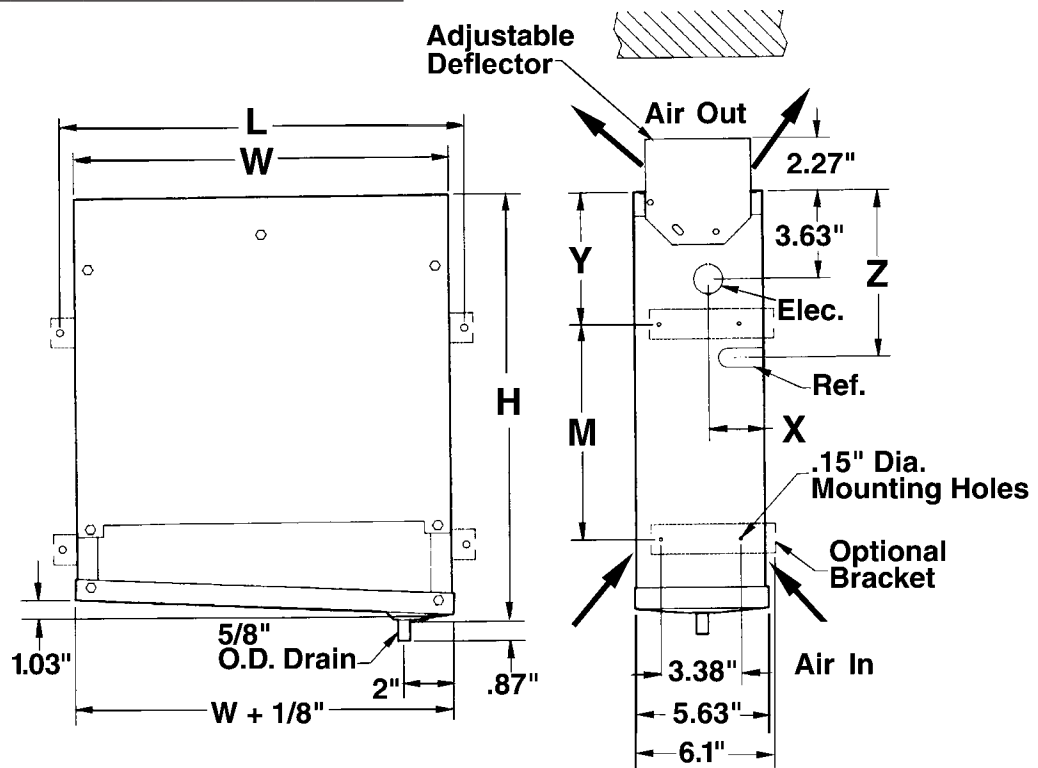
Specifications

Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH) 10°F TD	Motor Data				Connections (in.)			Approx. Ship Wt. (lbs)
		CFM	No. of Fans	115/1/60	208-230/1/60	Coil Inlet OD	Suction ID	Drain OD	
				Total FLA	Total FLA				
RAMK13	1,300	180	2	1.6	0.8	3/8	3/8	5/8	19
RAMK17	1,700	170	2	1.6	0.8	3/8	3/8	5/8	20
RAMK23	2,300	255	3	2.4	1.2	3/8	1/2	5/8	28

Dimensional Data

Climate Control Base Model	Dimensions (in.)						
	H	L	M	W	X	Y	Z
RAMK13	17 3/4	16 7/8	9	15 5/8	2 3/4	5 1/2	6 15/16
RAMK17	19 3/4	16 7/8	10	15 5/8	2 3/4	6 1/2	7 15/16
RAMK23	19 3/4	23 1/4	10	22	2 5/16	6 1/2	7 15/16



Section 1

Twin Flow

Overview



Product Description

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° TD. Opting for EC motors makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

- Compact two-way design with medium velocity air flow
- Mounts flush to the ceiling and draws air in through the fan and discharges out both sides
- Air pattern reduces air loss when doors are opened and the medium velocity reduces product drying
- Textured aluminum cabinet
- Stainless steel fasteners
- Molded Polycarbonate fan guards
- Drain pan and fan panel is easily removed for installation and servicing
- Coils are constructed of copper tubing with aluminum fins
- Expansion valve can be mounted inside the cabinet
- Internal junction box is provided for electrical connection
- Motors are thermally protected and permanently lubricated
- Sweat inlet connection to reduce leaks
- All models are UL listed for the US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option
- Optional coated coil available (Model BTOK) for enhanced protection in corrosive environments
- EC motors available for some models

Nomenclature

BTO	K	09	A	G
Model Series	Coil Option	Model Size	Electrical Code	Vintage
Twin Flow Unit Cooler	Blank = Standard K = Coated	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	

Twin Flow

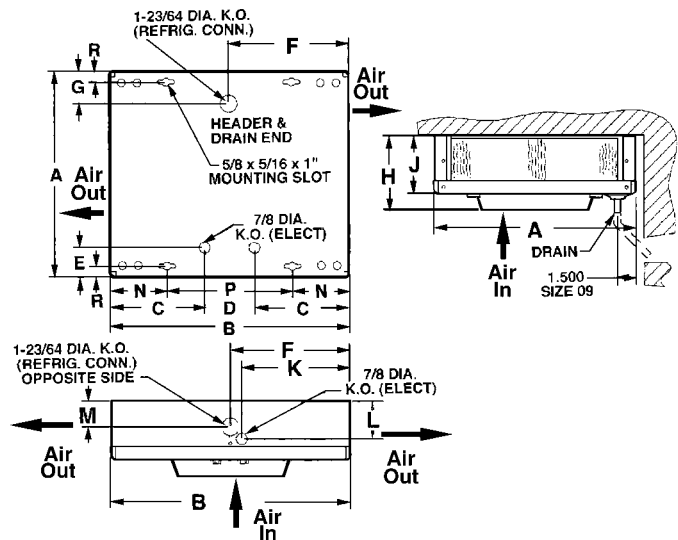
Specifications

Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH)		Motor Data				Connections (in.)			Approx. Ship Wt. (lbs)
	10°F TD	15°F TD	CFM	No. of Fans	115/1/60	208-230/1/60	Coil Inlet OD	Suction ID	Drain OD	
					Total FLA	Total FLA				
BTO(K)09	900	1,350	130	1	0.8	0.4	1/2	1/2	1/2	12
BTO(K)13	1,300	1,950	240	2	1.6	0.8	1/2	1/2	1/2	14
BTO(K)18	1,800	2,700	255	1	1.0	0.5	1/2	1/2	1/2	15
BTO(K)25	2,500	3,750	460	2	2.0	1.0	1/2	1/2	1/2	23
BTO(K)35	3,500	5,250	425	2	2.0	1.0	1/2	1/2	1/2	24
BTO(K)45	4,500	6,750	550	2	2.0	1.0	1/2	1/2	5/8	34
BTO(K)55	5,500	8,250	730	1	2.1	1.1	1/2	1/2	5/8	34

Dimensional Data

Climate Control Base Model	Dimensions (in.)														
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R
BTO(K)09	16 1/8	19 1/8	7 9/16	4	2 5/16	9 9/16	2 3/4	4 7/8	4 1/2	8 5/8	2 1/2	2 5/8	4 9/16	10	7/8
BTO(K)13	16 1/8	19 1/8	7 9/16	4	2 5/16	9 9/16	2 3/4	5 3/4	4 1/2	8 5/8	2 1/2	2 5/8	4 9/16	10	7/8
BTO(K)18	16 1/8	19 1/8	7 9/16	4	2 5/16	9 9/16	2 3/4	5 3/4	4 1/2	8 5/8	2 1/2	2 5/8	4 9/16	10	7/8
BTO(K)25	18 1/8	26 1/8	11 1/16	4	2 5/16	13 1/16	2 3/4	6 3/4	5 1/2	12 1/8	3 1/2	2 5/8	8 1/16	10	7/8
BTO(K)35	18 1/8	26 1/8	11 1/16	4	2 5/16	13 1/16	2 3/4	6 3/4	5 1/2	12 1/8	3 1/2	2 5/8	8 1/16	10	7/8
BTO(K)45	21 1/8	29 1/8	8 3/16	7 3/4	3 7/16	10 5/8	3 1/2	9 1/4	8	13 5/8	5 15/16	4 1/4	7 9/16	14	1 3/4
BTO(K)55	21 1/8	29 1/8	8 3/16	7 3/4	3 7/16	10 5/8	3 1/2	8 1/2	8	13 5/8	5 15/16	4 1/4	7 9/16	14	1 3/4



Dual Air

Overview



Product Description

Model U unit cooler is used wherever a small, compact unit is required, such as salad boxes, back bars and direct draw boxes. It can be mounted on the ceiling or wall. The Model U unit draws air in through the front and discharges it out both sides to ensure proper distribution of cool air and thus maintain a uniform box temperature.

Certifications



Standard Features

- Textured aluminum cabinet
- Full collar aluminum fins on expanded copper tubes
- Detachable drain pan that is easy to clean
- Molded 3-prong motor connector to save installation time and expense
- Motors are thermally protected and permanently lubricated
- Optional coated coil available (Model UK) for enhanced protection in corrosive environments
- Sweat inlet connection to reduce leaks
- All models are UL recognized for the US and Canada
- UL classified to NSF standards

Options

- Flare connection available as a ship loose option

Nomenclature

U	K	09	0
Model Series	Coil Option	Model Size	Electrical Code
Dual Aire Standard Coil	Blank = Standard K = Coated	# x 100 = BTUH	0 = 115/1/60 1 = 208-230/1/60

Dual Air

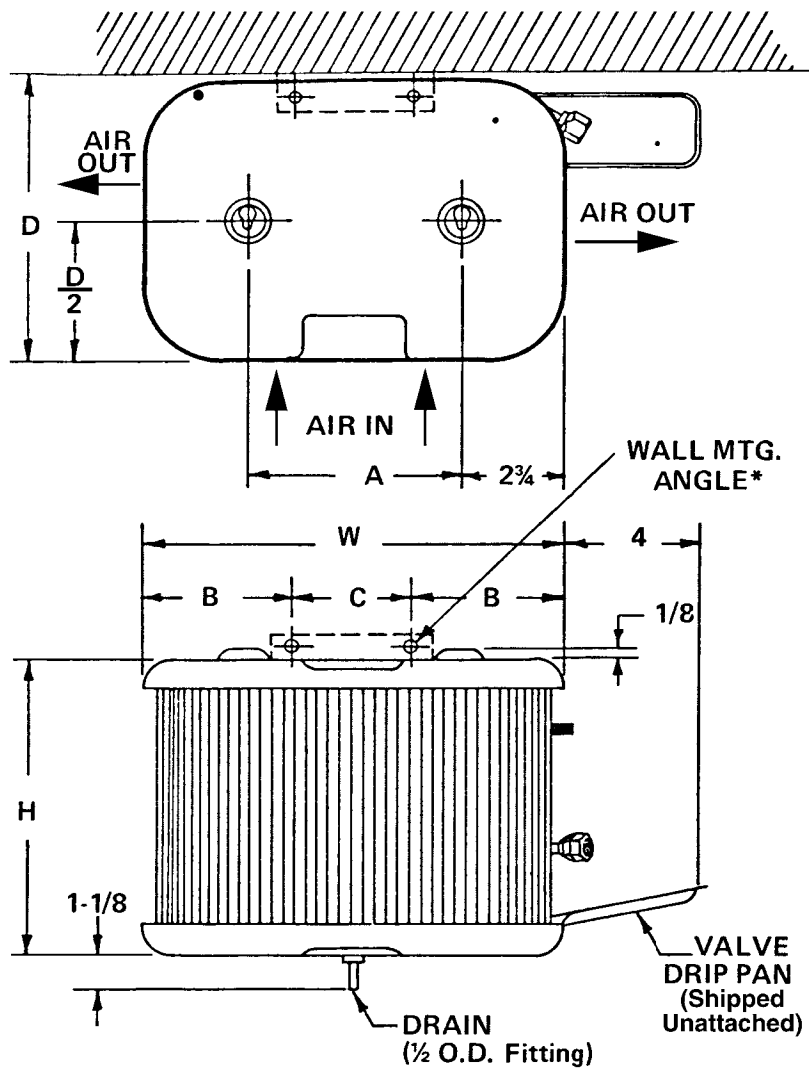
Specifications

Performance & Electrical Data

Climate Control Base Model	Capacity (BTUH)		Motor Data			Connections (in.)			Approx. Ship Wt. (lbs)
	10°F TD	15°F TD	CFM	115/1/60	208-230/1/60	Coil Inlet OD	Suction ID	Drain OD	
				Total FLA	Total FLA				
U(K)009	850	1,275	190	0.45	0.55	1/2	3/8	1/2	9
U(K)012	1,150	1,725	250	0.45	0.55	1/2	3/8	1/2	10
U(K)015	1,500	2,250	310	1.1	0.55	1/2	3/8	1/2	14

Dimensional Data

Climate Control Base Model	Dimensions (in.)					
	H	W	D	A	B	C
U(K)009	8 1/2	11 1/2	8 7/8	6	4	3 1/2
U(K)012	8 1/2	17 1/2	8 7/8	12	4	9 1/2
U(K)015	9 1/2	17 1/2	10 7/8	12	4	9 1/2



Section 1

Extended Thin Profile

Overview



Product Description

Extended Thin Profile LTA & LTL unit coolers are the most compact designed units for reach in display cases. The unit's low height design allows the unit to 'hide' at the top of the cooler, which gives the case a cleaner look and also allows for more room for shelves and product. These units have front access end panels for easy access to the refrigerant and electrical compartments, along with modular front access panels that make it easy to access the motors. Internally enhanced tube design produces better unit performance.

Better performance, easy installation, serviceability and high quality make this unit the perfect fit for your display case needs.

Certifications



Standard Features

- Low height makes it the most compact unit for display cases where space is limited, giving the case a clean look and allowing for more shelving and product storage
- Textured aluminum cabinet
- Easy access to motors and the refrigerant and electrical components with front access panels
- Modular front access panels can be removed independently of the drain pan
- Plastic vibration isolators for fan panels and drain pan reduce noise and vibration
- Liquid-line solenoid wire harness comes standard for quick installation
- Internally enhanced tube design produces better unit performance
- Heaters are attached to the coil for easier serviceability
- Defrost termination control
- Fan delay control
- Heater safety control

Nomenclature

LT	A	053	B	A
Model Series	Model Type	Model Size	Electrical Code	Vintage
Extended Thin Profile Unit Cooler	A = Air Defrost L = Electric Defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60 S = Configurable	

Extended Thin Profile

Performance & Specification Data

Performance Data

Climate Control Base Model	Capacity (BTUH)		Fan Data	
	10°F TD 25°F SST	10°F TD -10°F SST	No. of Fans	CFM
Air Defrost				
LTA053	5,300	-	2	850
LTA079	7,900	-	3	1,350
LTA102	10,200	-	4	1,800
LTA134	13,400	-	5	2,250
LTA172	17,200	-	6	2,550

Climate Control Base Model	Capacity (BTUH)		Fan Data	
	10°F TD 25°F SST	10°F TD -10°F SST	No. of Fans	CFM
Electric Defrost				
LTL046	-	4,600	2	850
LTL068	-	6,800	3	1,300
LTL093	-	9,300	4	1,700
LTL115	-	11,500	5	2,100
LTL133	-	13,300	6	2,550

Electrical Data

No. of Fans	Motor HP	EC Motor				Defrost Heaters	
		115/1/60		208-230/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts
2	1/15	2	60	1.2	54	4.8	1,100
3	1/15	3	90	1.8	81	7.2	1,650
4	1/15	4	120	2.4	108	9.6	2,200
5	1/15	5	150	3	135	12.0	2,750
6	1/15	6	180	3.6	162	14.4	3,300

Capacity Correction Factors For Electric Defrost Models

Saturated Suction Temperature		
+20°F	-10°F	-20°F
1.11	1.00	0.96

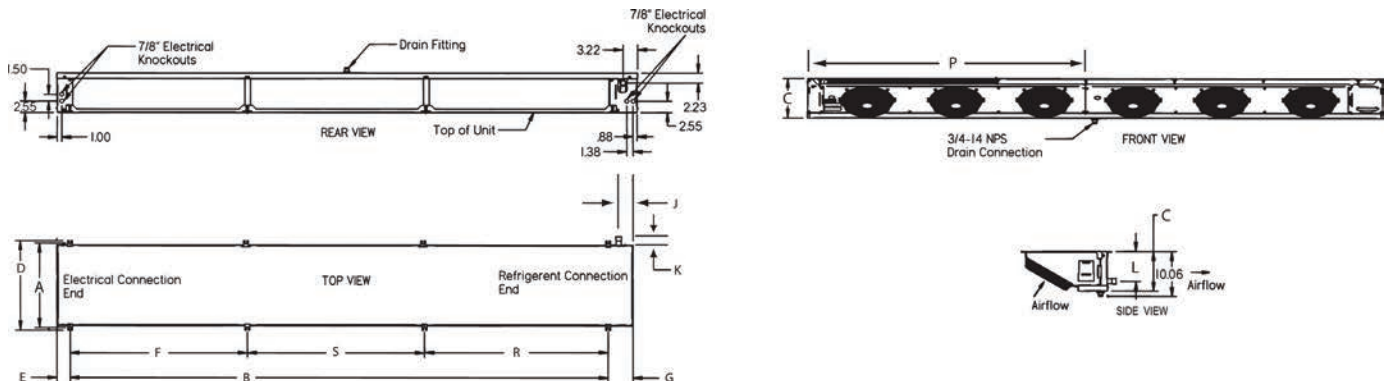
Physical Data (All Models)

Suction connection is swaged to directly accept piping

No. of Fans	Connections (in.)				Approx. Net Weight (lbs.)
	Coil Inlet ODF	Suction ID	External Equalizer OD	Drain MPT	
2	1/2	5/8	1/4	3/4	48
3	1/2	5/8	1/4	3/4	69
4	1/2	7/8	1/4	3/4	85
5	1/2	7/8	1/4	3/4	108
6	1/2	1 1/8	1/4	3/4	124

Dimensional Data (All Models)

No. of Fans	Dimensions (in.)															
	A	B	C	D	E	F	G	H	J	K	L	M	N	P	R	S
2	18 1/8	40 7/8	8 7/8	19	3	40 7/8	5 9/16	7 1/2	3 1/2	2	6 11/16	1 5/32	1 1/2	24 11/16	-	-
3	18 1/8	60 5/8	8 7/8	19	3	60 5/8	5 9/16	7 1/2	3 1/2	2	6 11/16	1 5/32	1 1/2	34 9/16	-	-
4	18 1/8	80 3/8	8 7/8	19	3	39 1/2	5 9/16	7 1/2	3 5/16	2	6 11/16	1 5/32	1 1/2	44 7/16	40 7/8	-
5	18 1/8	100 1/8	8 7/8	19	3	59 1/4	5 9/16	7 1/2	3 5/16	2	6 11/16	1 5/32	1 1/2	54 5/16	40 7/8	-
6	18 1/8	119 7/8	8 7/8	19	3	39 1/2	5 9/16	7 1/2	3 3/16	2	6 11/16	1 5/32	1 1/2	64 5/32	40 7/8	39 1/2



Section 1

Slim Contour

Overview



Product Description

The Slim Contour, an innovative unit cooler with space-saving design features offers enhanced serviceability and maximum cooling performance. These units are ideal for applications in the food service industry where maximizing storage capacity in a walk-in cooler is critical. Opting for the Beacon II™ Refrigeration System will further increase energy efficiency and operational cost savings.

Certifications



Standard Features

Ease of Installation & Service

- Modular fan cassettes for easy access to all components and service outside of cooler
- Fans can be removed during installation making mounting of the unit easier and safer
- Easily removed fan guard made from dishwasher safe polymer
- Coil accessible, from both the front and rear of the unit, for cleaning without removing drain pan
- Easy access to drain pan for cleaning
- Mechanical and electrical components accessible through same panel

Reliable & Durable

- Sweat connections to reduce potential for leaks
- Molded fan guard design made of strong plastic material
- Cabinet cleans easily and looks attractive

Performance

- Energy efficient EC (Electronically Commutated) Motors are standard
- Hybrid design of high grade polymer with metal back
- Sweat connections to reduce potential for leaks
- Up to 40% reduction in refrigerant charge vs. traditional evaporators

Reduced Profile

- 30% lower unit height allows for improved storage
- Rear angled drain line further increases storage capacity

UL	A	041	A	E	A
Model Series	Model Type	Capacity	Electrical Code	Motor Code	Vintage
Slim Contour	A = Air Defrost E = Electric Defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	E = EC Motor	

Slim Contour

Performance & Specification Data

Performance Data - 50 Hz / 60 Hz

For EC Motors, use 60 Hz capacity and airflow values. (Units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor.)

Climate Control Base Model	Capacity (BTUH)		Fan Data	
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	CFM
Air Defrost Models - 7 FPI				
ULA041	4,100	-	1	530
ULA050	5,000	-	1	530
ULA072	7,200	-	2	1,090
ULA100	10,000	-	2	1,090
ULA132	13,200	-	3	1,675
ULA153	15,300	-	3	1,675
Electric Defrost				
ULE035BEA	-	3,500	1	530
ULE043BEA	-	4,300	1	530
ULE068BEA	-	6,800	2	1,090
ULE092BEA	-	9,200	2	1,090
ULE112BEA	-	11,200	3	1,675
ULE140BEA	-	14,000	3	1,675

Dimensional Data (All Models)

Note: Hanger brackets will accept 3/8" hanger rods.

No. of Fans	Dimensions (In.)		
	Height (in.)	Depth (in.)	Length (in.)
1	11 3/8	20	31 1/5
2	11 3/8	20	52 1/5
3	11 3/8	20	73 1/5
1	11 3/8	20	31 1/8
2	11 3/8	20	52 1/8
3	11 3/8	20	73 1/8

Defrost Heaters (Electric Defrost Models)

No of Fans	Watts	Total Amps
		208-230/1/60
1	800	3.5
2	1450	6.3
3	2150	9.4

Fan Motors (All Models)

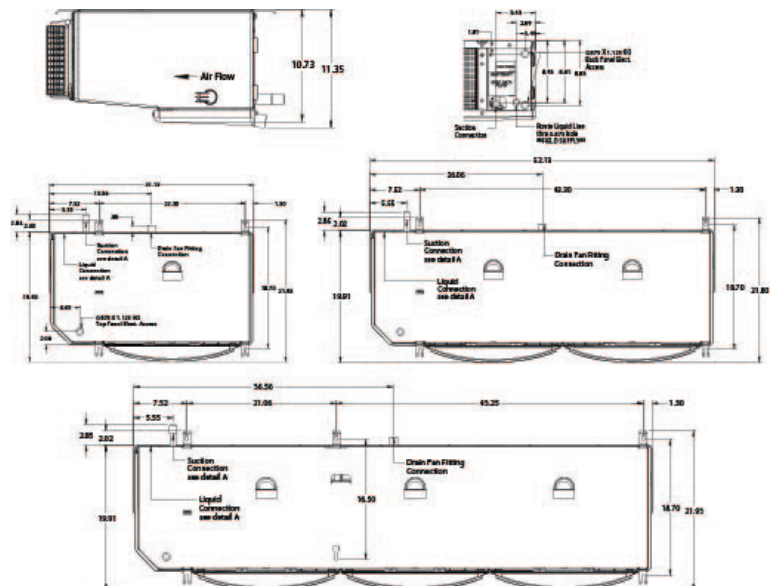
No. of Fans	Motor HP	EC Motor			
		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts
1	1/15	1.2	72	0.6	72
2	1/15	2.4	144	1.2	144
3	1/15	3.6	216	1.8	216

Capacity Correction Factors for Electric Defrost Models

Saturated Suction Temperature			
+20°F	-10°F	-20°F	-30°F
1.15	1.04	1	0.9

Connection Data

Climate Control Base Model	No. of Fans	Connections (In.)		Approx. Net Weight (lbs.)
		Coil Inlet OD	Drain MPT	
Air Defrost Models - 7 FPI				
ULA041	1	1/2	3/4	33
ULA050	1	1/2	3/4	33
ULA072	2	1/2	3/4	64
ULA100	2	1/2	3/4	64
ULA132	3	1/2	3/4	93
ULA153	3	1/2	3/4	93
Electric Defrost				
ULE035	1	1/2	3/4	40
ULE043	1	1/2	3/4	44
ULE068	2	1/2	3/4	70
ULE092	2	1/2	3/4	74
ULE112	3	1/2	3/4	101
ULE140	3	1/2	3/4	106



Low Profile

Overview



Product Description

The low profile unit cooler, available in air, electric, and hot gas defrost, is designed for maximum capacity while occupying a minimum amount of space inside a walk-in cooler or freezer. These units are ideal for many applications including restaurants and convenience stores. Opting for EC motors or the Beacon II™ Refrigeration System makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- Cabinet design features front access panels on each side for easy access to electrical and refrigeration components
- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Liquid line solenoid wire harness is factory-installed for quick installation
- Pre-drilled holes on the back of the unit for room thermostat
- Coil heater slots have been enlarged for easier installation and replacement
- On 4-6 fan models, drain pan has a lanyard for easy and safe access
- Motors plug into wiring harness for easier servicing
- Hot gas loop on bottom of coil for easier access is standard for hot gas defrost models

Reliable & Durable

- Sweat connections to reduce potential for leaks
- Molded fan guard design made of strong plastic material
- Heavy gauge grained aluminum cabinet cleans easily and looks attractive

Performance

- Internal panels are isolated for quiet operation
- Internally enhanced tubing and fin design for higher efficiency
- Reduced heater wattages
- Fixed defrost termination for electric, adjustable defrost termination for hot gas
- Extended drain pan heaters for more uniform defrost throughout the drain pan and additional heat in end compartments

Versatile

- Large diameter drain hole (3/4" ID) is located on the back of the unit
- Minimal height of the low profile series makes it ideal for low ceiling coolers

Nomenclature

LSC	120	A	K
Model Series	Capacity	Electrical Code	Vintage
LSC = Air defrost LSF = Electric defrost, 6 FPI LFF = Electric defrost, 4 FPI LSH = Hot gas defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60 C = 208-230/3/60 M = 460/1/60 AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) CE = 208-230/3/60 (EC) S = Configurable	

Low Profile

Performance & Specification Data

Performance Data – 60 Hz

Climate Control Base Model	Capacity (BTUH)		Fan Data	
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	CFM
Air Defrost Models - 6 FPI				
LSC040	4,000	-	1	730
LSC052	5,200	-	1	700
LSC065	6,500	-	1	650
LSC070	7,000	-	2	1,460
LSC090	9,000	-	2	1,400
LSC104	10,400	-	2	1,400
LSC120	12,000	-	2	1,300
LSC130	13,000	-	2	1,300
LSC140	14,000	-	3	2,100
LSC156	15,600	-	3	2,100
LSC180	18,000	-	3	1,950
LSC208	20,800	-	4	2,800
LSC260	26,000	-	5	3,250
LSC312	31,200	-	6	3,900
LSC370	37,000	-	6	3,900
Electric Defrost Models - 6 FPI				
LSF035	-	3,500	1	700
LSF040	-	4,000	1	700
LSF047	-	4,700	1	650
LSF065	-	6,500	2	1,400
LSF075	-	7,500	2	1,300
LSF090	-	9,000	2	1,300
LSF120	-	12,000	3	2,100
LSF140	-	14,000	3	1,950
LSF160	-	16,000	4	2,600
LSF180	-	18,000	4	2,600
LSF200	-	20,000	5	3,250
LSF240	-	24,000	6	3,900
LSF280	-	28,000	6	3,900
Electric Defrost Models - 4 FPI				
LFF041	-	4,100	1	690
LFF068	-	6,800	2	1,380
LFF080	-	8,000	2	1,380
LFF102	-	10,200	3	2,170
LFF136	-	13,600	4	2,760
LFF170	-	17,000	5	3,450
LFF204	-	20,400	6	4,140
LFF235	-	23,500	6	4,140

Climate Control Base Model	Capacity (BTUH)		Fan Data	
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	CFM
Hot Gas Defrost Models - 6 FPI				
LSH035	-	3,500	1	700
LSH040	-	4,000	1	700
LSH047	-	4,700	1	650
LSH065	-	6,500	2	1,400
LSH075	-	7,500	2	1,300
LSH090	-	9,000	2	1,300
LSH120	-	12,000	3	2,100
LSH140	-	14,000	3	1,950
LSH160	-	16,000	4	2,600
LSH180	-	18,000	4	2,600
LSH200	-	20,000	5	3,250
LSH240	-	24,000	6	3,900
LSH280	-	28,000	6	3,900
Hot Gas Defrost Models - 4 FPI				
LSH041	-	4,100	1	690
LSH068	-	6,800	2	1,380
LSH080	-	8,000	2	1,380
LSH102	-	10,200	3	2,170
LSH136	-	13,600	4	2,760
LSH170	-	17,000	5	3,450
LSH204	-	20,400	6	4,140
LSH235	-	23,500	6	4,140

Capacity Correction Factors For Electric and Hot Gas Defrost Models

Saturated Suction Temperature			
+20°F	-10°F	-20°F	-30°F
1.15	1.04	1.00	0.90

Section 1

Low Profile

Performance & Specification Data

Fan Motors (All Models)

No. of Fans	Motor HP	PSC Motor						EC Motor			
		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1	1/15	1.0	82	0.5	91	0.4	117	0.9	57	0.5	59
2	1/15	2.0	164	1.0	182	0.8	234	1.8	114	1.0	118
3	1/15	3.0	246	1.5	273	1.2	351	2.7	171	1.5	177
4	1/15	4.0	328	2.0	364	1.6	468	3.6	228	2.0	236
5	1/15	5.0	410	2.5	455	2.0	585	4.6	285	2.5	295
6	1/15	6.0	492	3.0	546	2.4	702	5.5	342	3.0	354

Defrost Heaters (Electric Defrost Models)

Includes coil heaters and drain pan heaters.

No. of Fans	Watts	Total Amps		
		208-230/1/60	208-230/3/60	460/1/60
1	900	3.9	2.3	2.0
2	1,800	7.8	4.5	3.9
3	2,700	11.7	6.8	5.9
4	3,600	15.7	9.0	7.8
5	4,500	19.6	11.3	9.8
6	5,400	23.5	13.6	11.7

Drain Pan Heaters (Hot Gas Defrost Models)

Hot gas drain pan standard. Electric drain pan available at no additional charge.

No. of Fans	Watts	Total Amps		
		115/1/60	208-230/1/60	460/1/60
1	300	2.6	1.3	0.7
2	600	5.2	2.6	1.3
3	900	7.8	3.9	2.0
4	1,200	10.4	5.2	2.6
5	1,500	13.0	6.5	3.3
6	1,800	15.7	7.8	3.9

Connection Data

Climate Control Base Model	No. of Fans	Connections (In.)							Approx. Net Weight (lbs.)
		Coil Inlet OD	Coil Inlet ODF	Suction ID	External Equalizer OD	Drain MPT	Side Port OD	Hot Gas Pan Conns. OD	
Air Defrost Models - 6 FPI									
LSC040	1	1/2	-	5/8	1/4	3/4	-	-	28
LSC052	1	1/2	-	5/8	1/4	3/4	-	-	31
LSC065	1	1/2	-	7/8	1/4	3/4	-	-	34
LSC070	2	1/2	-	7/8	1/4	3/4	-	-	45
LSC090	2	1/2	-	7/8	1/4	3/4	-	-	48
LSC104	2	1/2	-	7/8	1/4	3/4	-	-	49
LSC120	2	1/2	-	7/8	1/4	3/4	-	-	51
LSC130	2	1/2	-	7/8	1/4	3/4	-	-	53
LSC140	3	1/2	-	7/8	1/4	3/4	-	-	63
LSC156	3	1/2	-	7/8	1/4	3/4	-	-	67
LSC180	3	1/2	-	7/8	1/4	3/4	-	-	69
LSC208	4	1/2	-	1 1/8	1/4	3/4	-	-	82
LSC260	5	1/2	-	1 1/8	1/4	3/4	-	-	103
LSC312	6	1/2	-	1 1/8	1/4	3/4	-	-	124
LSC370	6	1/2	-	1 3/8	1/4	3/4	-	-	127

Low Profile

Performance & Specification Data

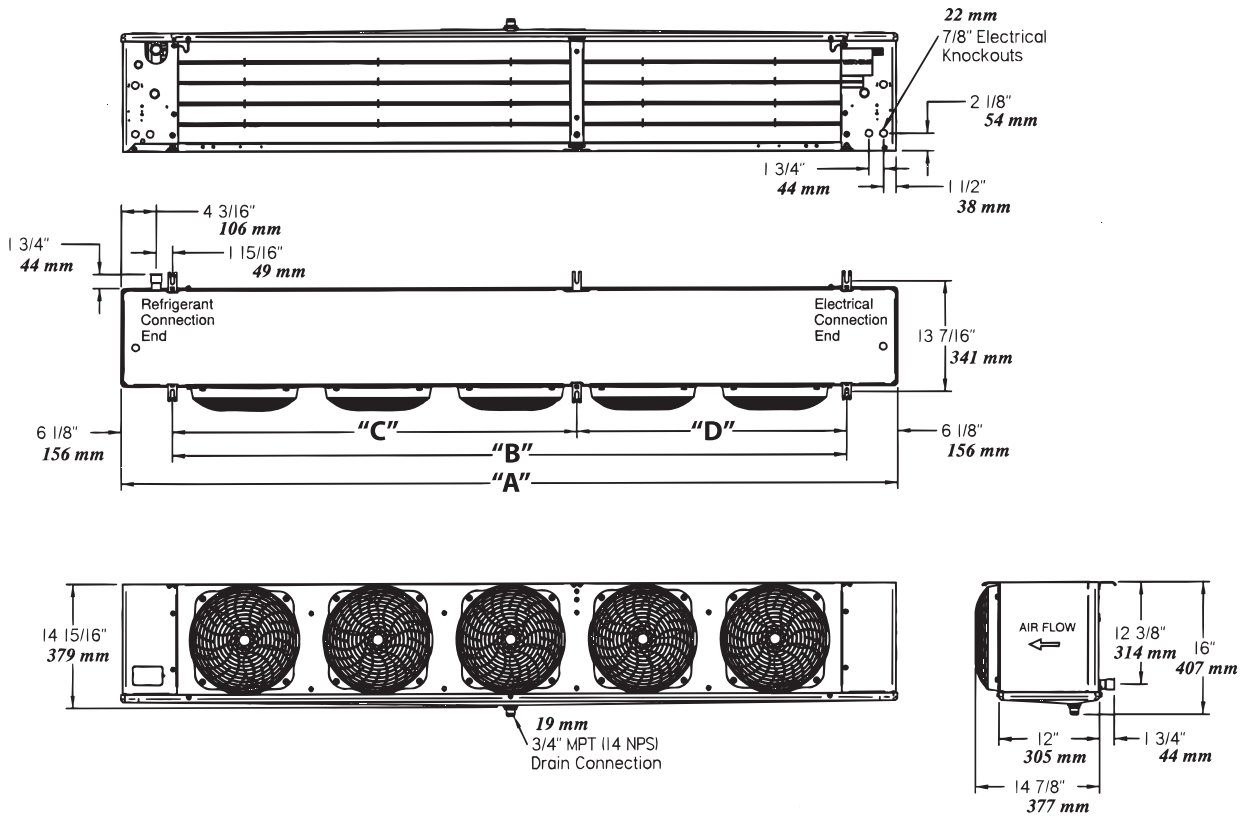
Section 1

Climate Control Base Model	No. of Fans	Connections (In.)							Approx. Net Weight (lbs.)
		Coil Inlet OD	Coil Inlet ODF	Suction ID	External Equalizer OD	Drain MPT	Side Port OD	Hot Gas Pan Conns. OD	
Electric Defrost Models - 6 FPI									
LSF035	1	1/2	-	5/8	1/4	3/4	-	-	24
LSF040	1	1/2	-	5/8	1/4	3/4	-	-	26
LSF047	1	1/2	-	5/8	1/4	3/4	-	-	29
LSF065	2	1/2	-	5/8	1/4	3/4	-	-	43
LSF075	2	1/2	-	5/8	1/4	3/4	-	-	45
LSF090	2	1/2	-	7/8	1/4	3/4	-	-	48
LSF120	3	1/2	-	7/8	1/4	3/4	-	-	60
LSF140	3	1/2	-	7/8	1/4	3/4	-	-	62
LSF160	4	1/2	-	1 1/8	1/4	3/4	-	-	81
LSF180	4	1/2	-	1 1/8	1/4	3/4	-	-	84
LSF200	5	1/2	-	1 1/8	1/4	3/4	-	-	101
LSF240	6	1/2	-	1 1/8	1/4	3/4	-	-	121
LSF280	6	1/2	-	1 1/8	1/4	3/4	-	-	124
Electric Defrost Models - 4 FPI									
LFF041	1	1/2	-	5/8	1/4	3/4	-	-	28
LFF068	2	1/2	-	7/8	1/4	3/4	-	-	44
LFF080	2	1/2	-	7/8	1/4	3/4	-	-	47
LFF102	3	1/2	-	7/8	1/4	3/4	-	-	59
LFF136	4	1/2	-	1 1/8	1/4	3/4	-	-	80
LFF170	5	1/2	-	1 1/8	1/4	3/4	-	-	100
LFF204	6	1/2	-	1 1/8	1/4	3/4	-	-	120
LFF235	6	1/2	-	1 1/8	1/4	3/4	-	-	123
Hot Gas Defrost Models - 6 FPI									
LSH035	1	-	5/8	5/8	1/4	3/4	3/8	5/8	26
LSH040	1	-	5/8	5/8	1/4	3/4	3/8	5/8	28
LSH047	1	-	5/8	5/8	1/4	3/4	3/8	5/8	31
LSH065	2	-	5/8	5/8	1/4	3/4	3/8	5/8	45
LSH075	2	-	5/8	7/8	1/4	3/4	3/8	5/8	47
LSH090	2	-	7/8	7/8	1/4	3/4	3/8	5/8	50
LSH120	3	-	7/8	7/8	1/4	3/4	3/8	5/8	62
LSH140	3	-	7/8	7/8	1/4	3/4	3/8	5/8	64
LSH160	4	-	7/8	1 1/8	1/4	3/4	3/8	5/8	83
LSH180	4	-	1 1/8	1 1/8	1/4	3/4	3/8	5/8	86
LSH200	5	-	1 1/8	1 1/8	1/4	3/4	3/8	5/8	103
LSH240	6	-	1 1/8	1 1/8	1/4	3/4	3/8	5/8	123
LSH280	6	-	1 1/8	1 1/8	1/4	3/4	3/8	5/8	126
Hot Gas Defrost Models - 4 FPI									
LSH041	1	-	5/8	5/8	1/4	3/4	3/8	5/8	30
LSH068	2	-	5/8	7/8	1/4	3/4	3/8	5/8	46
LSH080	2	-	5/8	7/8	1/4	3/4	3/8	5/8	49
LSH102	3	-	7/8	7/8	1/4	3/4	3/8	5/8	61
LSH136	4	-	7/8	1 1/8	1/4	3/4	3/8	5/8	82
LSH170	5	-	7/8	1 1/8	1/4	3/4	3/8	5/8	102
LSH204	6	-	7/8	1 1/8	1/4	3/4	3/8	5/8	122
LSH235	6	-	1 1/8	1 1/8	1/4	3/4	3/8	5/8	125

Walk-In Unit Coolers

Low Profile

Performance & Specification Data



Dimensional Data (All Models)

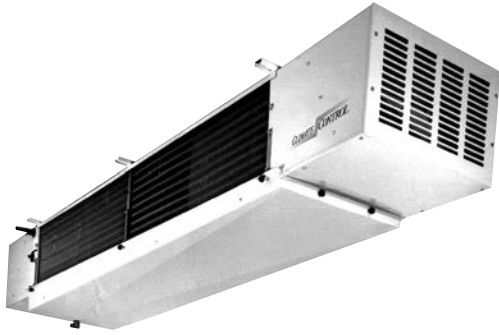
Note: Hanger brackets will accept 3/8" hanger rods.

No. of Fans	Dimensions (in.)			
	A	B	C	D
1	29 1/2	17 1/4	-	-
2	45 1/2	33 1/4	-	-
3	61 1/2	49 1/4	-	-
4	77 1/2	65 1/4	-	-
5	93 1/2	81 1/4	48 5/8	32 5/8
6	109 1/2	97 1/4	48 5/8	48 5/8

Low Flow

Overview

Section 1



Product Description

Low Flow unit coolers, available in air, electric, and hot gas defrost, are ideal for meat storage and preparation rooms, floral coolers, dough retarding and many other applications requiring low air velocities and low sound levels. With low velocity unit coolers, high humidities can be maintained to prevent product drying and weight loss. These units are ideal for any type of workroom where human comfort is important. Opting for EC motors makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- All factory installed electrical components are wired to a terminal board in the junction box making field wiring quick and easy
- Access port on the suction connection allows superheat to be easily and accurately set
- Motors are factory-wired to unit junction box for fast installation

Reliable & Durable

- Rust-free, all-aluminum white case with louvered intake grille for attractive appearance
- Sweat-type cooling coil connections reduce the potential for leaks
- Nickel-steel alloy heaters provide a positive defrost and have long life
- Hot gas models use inner drain pans with low-wattage electric heaters. This eliminates the braze joints and tubing associated with hot gas drain pan loops

Performance

- Statically and dynamically balanced fans are designed for quiet air movement
- Electric defrost coils have a hermetically sealed defrost termination thermostat that does not require adjustment. Hot gas defrost units are available with an optional adjustable defrost termination thermostat (shipped-loose accessory).
- Cross-fin cooling coils with corrugated aluminum fins spaced 6 FPI & 3/8" OD staggered copper tubes provide optimum heat transfer and reduce the amount of refrigerant required
- Generous coil surface helps to maintain steady room temperature and minimize product shrinkage
- All models use inner drain pans to reduce sweating
- Thermal overload protected motors are resiliently mounted inside the unit to assure minimum noise level

Versatile

- Inlet connection allows for external mounting of TXV

Nomenclature

LVC	070	A	E
Model Series	Capacity	Electrical Code	Vintage
LVC = Low flow, air defrost LVD = Low flow, electric defrost LVG = Low flow, hot gas defrost	# x 100 = BTUH	A= 115/1/60 B = 208-230/1/60 AH = 115/1/60 (PSC) BH = 208-230/1/60 (PSC) MH = 460/1/60 (PSC) AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) S = Configurable	

Low Flow

Performance & Specification Data

Performance Data (All Models) – 60 HZ

* = D for electric defrost, G for hot gas defrost.

Climate Control Base Model	Capacity (BTUH)			Fan Data	
	10°F TD 25°F SST	15°F TD 25°F SST	20°F TD 25°F SST	No. of Fans	CFM
LV*070	7,000	10,500	14,000	2	1,200
LV*090	9,000	13,500	18,000	2	1,200
LV*120	12,000	18,000	24,000	2	1,300
LV*130	13,000	19,500	26,000	2	1,300
LV*160	16,000	24,000	32,000	2	1,900
LV*170	17,000	25,500	34,000	2	1,900
LV*190	19,000	28,500	38,000	2	2,400
LV*220	22,000	33,000	44,000	2	2,700
LV*270	27,000	40,500	54,000	2	3,200

Fan Motors (All Models)

* = D for electric defrost, G for hot gas defrost.

115/1/60 not available on Electric Defrost Models

Climate Control Base Model	Shaded Pole Motor				PSC Motor						EC Motor			
	115/1/60		208-230/1/60		115/1/60		208-230/1/60		460/1/60		115/1/60		208-230/1/60	
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
LV*070	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*090	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*120	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*130	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*160	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*170	3.6	232	2.4	244	1.24	164	0.82	182	-	-	1.8	57	1.0	59
LV*190	-	-	-	-	2.8	230	1.4	230	0.8	288	4.8	210	2.4	215
LV*220	-	-	-	-	2.8	230	1.4	230	0.8	288	4.8	210	2.4	215
LV*270	-	-	-	-	2.8	230	1.4	230	0.8	288	4.8	210	2.4	215

Defrost Heaters (Electric Defrost Models)

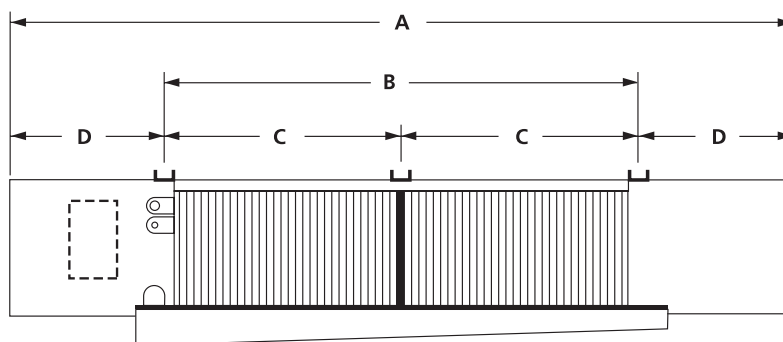
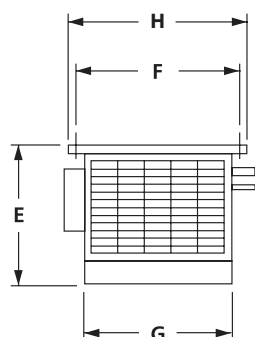
Climate Control Base Model	208-230/1/60		460/1/60	
	Amps	Watts	Amps	Watts
LVD070	11.5	2,650	-	-
LVD090	11.5	2,650	-	-
LVD120	16.7	3,850	-	-
LVD130	16.7	3,850	-	-
LVD160	16.7	3,850	-	-
LVD170	16.7	3,850	-	-
LVD190	20.7	4,770	10.4	4,770
LVD220	24.8	5,700	12.4	5,700
LVD270	24.8	5,700	12.4	5,700

Drain Pan Heaters (Hot Gas Models)

Climate Control Base Model	115/1/60		208-230/1/60		460/1/60	
	Amps	Watts	Amps	Watts	Amps	Watts
LVG070	5.8	660	2.9	660	-	-
LVG090	5.8	660	2.9	660	-	-
LVG120	8.4	960	4.2	960	-	-
LVG130	8.4	960	4.2	960	-	-
LVG160	8.4	960	4.2	960	-	-
LVG170	8.4	960	4.2	960	-	-
LVG190	10.4	1,190	5.2	1,190	2.6	1,190
LVG220	12.4	1,426	6.2	1,426	3.1	1,426
LVG270	12.4	1,426	6.2	1,426	3.1	1,426

Low Flow

Performance & Specification Data



Dimensional Data (All Models)

* = D for electric defrost, G for hot gas defrost.

Climate Control Base Model	Dimensions (in.)							
	A	B	C	D	E	F	G	H
LV*070	82 1/8	49	-	16 9/16	14 1/2	20 5/16	19 1/2	23 3/4
LV*090	82 1/8	49	-	16 9/16	14 1/2	20 5/16	19 1/2	23 3/4
LV*120	110 1/8	-	38 1/2	16 9/16	15 1/8	20 5/16	19 1/2	23 3/4
LV*130	110 1/8	-	38 1/2	16 9/16	15 1/8	20 5/16	19 1/2	23 3/4
LV*160	112 3/4	-	38 1/2	17 7/8	16 5/8	20 5/16	19 1/2	23 3/4
LV*170	112 3/4	-	38 1/2	17 7/8	16 5/8	20 5/16	19 1/2	23 3/4
LV*190	132 3/4	-	48 1/2	17 7/8	16 4/5	20 5/16	19 1/2	23 3/4
LV*220	151 3/4	-	58	17 7/8	16 4/5	20 5/16	19 1/2	23 3/4
LV*270	157	-	58	20 1/2	20 1/4	20 5/16	24 1/2	28 3/4

Connection Data

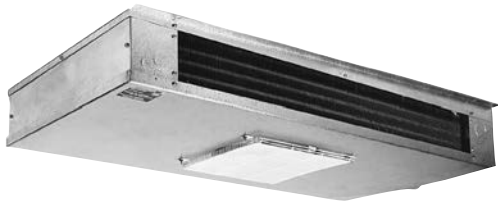
Climate Control Base Model	Connections (in.)			Approx. Net Weight (lbs.)
	Coil Inlet OD	Suction OD	Hot Gas OD	
Air Defrost Models				
LVC070	1/2	7/8	-	178
LVC090	1/2	7/8	-	189
LVC120	1/2	7/8	-	262
LVC130	1/2	7/8	-	264
LVC160	1/2	7/8	-	280
LVC170	1/2	7/8	-	285
LVC190	1/2	7/8	-	298
LVC220	1/2	7/8	-	366
LVC270	1/2	7/8	-	405
Electric Defrost Models				
LVD070	1/2	7/8	-	178
LVD090	1/2	7/8	-	189
LVD120	1/2	7/8	-	262
LVD130	1/2	7/8	-	264
LVD160	1/2	7/8	-	280
LVD170	1/2	7/8	-	285
LVD190	1/2	7/8	-	298
LVD220	1/2	7/8	-	366
LVD270	1/2	7/8	-	405

Climate Control Base Model	Connections (in.)			Approx. Net Weight (lbs.)
	Coil Inlet OD	Suction OD	Hot Gas OD	
Hot Gas Defrost Models				
LVG070	7/8	7/8	1/2	178
LVG090	7/8	7/8	1/2	189
LVG120	7/8	7/8	1/2	262
LVG130	7/8	7/8	1/2	264
LVG160	7/8	7/8	1/2	280
LVG170	7/8	7/8	1/2	285
LVG190	7/8	7/8	1/2	298
LVG220	7/8	7/8	1/2	266
LVG270	7/8	7/8	5/8	405

Section 1

Low Velocity Center Mount

Overview



Product Description

The low velocity center mount units, available in air, electric, and hot gas defrost, are ideal for floral storage, fresh fruit and vegetables, dough retarding, fresh meat storage and preparations, and many other applications. The low air flow and quiet fans are classically suited 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. Opting for EC motors or the Beacon II™ Refrigeration System makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- Liquid line solenoid wire harness is factory-installed for quick installation
- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Cabinet design features access panels on each end for easy access to electrical and refrigeration components
- Fan panel is lightweight and can easily be lowered for easy servicing and installation
- Expansion valve mounts inside the cabinet

Reliable & Durable

- Heavy gauge grained aluminum cabinet cleans easily and looks attractive
- Stainless steel screws prevent rust streaks
- Wire fan guards with PVC coating for durability
- Sweat connections to reduce potential for leaks
- Coils are dehydrated and sealed at the factory
- Double drain pan eliminates drain pan sweating
- Motor rail is design for maximum strength and durability

Performance

- Internally enhanced tubing and fin design for higher efficiency
- Electric defrost models incorporate high quality tubular heaters and a standard fixed defrost termination thermostat
- Hot gas defrost models come with a shipped-loose adjustable fan delay and defrost termination thermostat
- Motors are life lubricated and thermal overload protected

Versatile

- Low height makes it ideal for low ceiling coolers - larger models are only 15 inches tall, allowing for maximum headroom and more product storage
- Unit designed to be mounted flush against the ceiling or suspended on rods

Nomenclature

CWA	100	A	C
Model Series	Capacity	Electrical Code	Vintage
CWA = Low Velocity Center Mount, air defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60	
CWE = Low Velocity Center Mount, electric defrost		AH = 115/1/60 (PSC) BH = 208-230/1/60 (PSC)	
CWG = Low Velocity Center Mount, hot gas defrost		AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) S = Configurable	

Low Velocity Center Mount

Performance & Specification Data

Performance Data – 60 HZ

Climate Control Base Model	Capacity (BTUH)				Fan Data	
	10°F TD 25°F SST	15°F TD 25°F SST	50-55°F DB 55% RH 20°F TD Total	50-55°F DB 55% RH 20°F TD Sensible	No. of Fans	CFM
Air Defrost Models						
CWA050	5,000	7,500	10,000	8,500	1	725
CWA075	7,500	11,250	15,000	12,750	1	730
CWA100	10,000	15,000	20,000	17,000	2	1,450
CWA130	13,000	19,500	26,000	22,100	2	1,470
CWA155	15,500	23,250	31,000	26,350	2	1,460
CWA180	18,000	27,000	36,000	30,600	3	2,130
CWA210	21,000	31,500	42,000	35,700	4	2,840
CWA270	27,000	40,500	54,000	45,900	4	2,800
CWA340	34,000	51,000	68,000	57,800	5	3,500
Electric Defrost Models						
CWE050	5,000	7,500	-	-	1	725
CWE075	7,500	11,250	-	-	1	730
CWE100	10,000	15,000	-	-	2	1,450
CWE130	13,000	19,500	-	-	2	1,470
CWE155	15,500	23,250	-	-	2	1,460
CWE180	18,000	27,000	-	-	3	2,130
CWE210	21,000	31,500	-	-	4	2,840
CWE270	27,000	40,500	-	-	4	2,800
CWE340	34,000	51,000	-	-	5	3,500
Hot Gas Defrost Models						
CWG100	10,000	15,000	-	-	2	1,450
CWG130	13,000	19,500	-	-	2	1,470
CWG155	15,500	23,250	-	-	2	1,460
CWG180	18,000	27,000	-	-	3	2,130
CWG210	21,000	31,500	-	-	4	2,840
CWG270	27,000	40,500	-	-	4	2,800
CWG340	34,000	51,000	-	-	5	3,500

Defrost Heaters (Electric Defrost Models)

Climate Control Base Model	208-230/1/60	
	Amps	Watts
CWE050	8.7	2,000
CWE075	10.5	2,400
CWE100	12.2	2,800
CWE130	17.4	4,000
CWE155	17.4	4,000
CWE180	17.4	4,000
CWE210	22.6	5,200
CWE270	22.6	5,200
CWE340	30.4	7,000

Drain Pan Heaters (Hot Gas Models)

Climate Control Base Model	115/1/60		208-230/1/60	
	Amps	Watts	Amps	Watts
CWG100	3.0	350	1.5	350
CWG130	4.4	500	2.2	500
CWG155	4.4	500	2.2	500
CWG180	4.4	500	2.2	500
CWG210	5.7	650	2.8	650
CWG270	5.7	650	2.8	650
CWG340	7.6	875	3.8	875

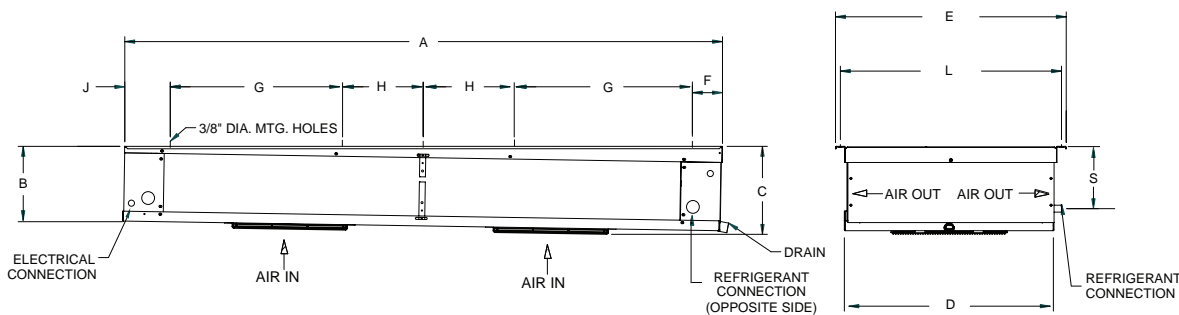
Fan Motors (All Models)

115/1/60 not available on Electric Defrost Models.

No. of Fans	PSC Motor				EC Motor			
	115/1/60		208-230/1/60		115/1/60		208-230/1/60	
	Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1	0.9	90	0.5	90	0.9	55	0.5	55
2	1.8	180	1.0	180	1.8	110	1.0	110
3	2.7	270	1.5	270	2.7	165	1.5	165
4	3.6	360	2.0	360	3.6	220	2.0	220
5	4.5	450	2.5	450	4.5	275	2.5	275

Low Velocity Center Mount

Performance & Specification Data



Dimensional Data (All Models)

* = A for air defrost, E for electric defrost, G for hot gas defrost.

Climate Control Base Model	Dimensions (in.)											
	A	B	C	D	E	F	G	H	J	L	P	S
CW*050	53 1/2	6 7/8	9 5/16	26 1/2	28 3/4	4	22	-	5 1/2	27 13/16	14 3/8	5 3/8
CW*075	75 1/2	6 7/8	9 5/16	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	5 3/8
CW*100	75 1/2	9 3/8	11 4/5	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	7 7/8
CW*130	75 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	11 7/16
CW*155	75 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	11 7/16
CW*180	75 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	11 7/16
CW*210	97 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	-	5 1/2	27 13/16	14 3/8	11 7/16
CW*270	97 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	-	5 1/2	27 13/16	14 3/8	11 7/16
CW*340	119 1/2	13 1/8	15 1/2	26 1/2	28 3/4	4	22	11	5 1/2	27 13/16	14 3/8	11 7/16

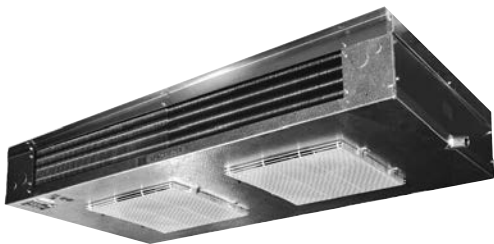
Connection Data

Climate Control Base Model	No. of Fans	Connections (in.)				Approx. Net Weight (lbs.)
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain FPT	
Air Defrost Models						
CWA050	1	1/2	7/8	1/4	3/4	70
CWA075	1	1/2	7/8	1/4	3/4	103
CWA100	2	1/2	7/8	1/4	3/4	106
CWA130	2	1 1/8	1 1/8	1/4	3/4	145
CWA155	2	1 1/8	1 1/8	1/4	3/4	149
CWA180	3	1 1/8	1 1/8	1/4	3/4	160
CWA210	4	1 1/8	1 1/8	1/4	3/4	193
CWA270	4	1 3/8	1 3/8	1/4	3/4	200
CWA340	5	1 3/8	1 3/8	1/4	3/4	242
Electric Defrost Models						
CWE050	1	1/2	7/8	1/4	3/4	75
CWE075	1	1/2	7/8	1/4	3/4	108
CWE100	2	1/2	7/8	1/4	3/4	111
CWE130	2	1 1/8	1 1/8	1/4	3/4	150
CWE155	2	1 1/8	1 1/8	1/4	3/4	154
CWE180	3	1 1/8	1 1/8	1/4	3/4	157
CWE210	4	1 1/8	1 1/8	1/4	3/4	203
CWE270	4	1 3/8	1 3/8	1/4	3/4	208
CWE340	5	1 3/8	1 3/8	1/4	3/4	250

Climate Control Base Model	No. of Fans	Connections (in.)				Approx. Net Weight (lbs.)
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain FPT	
Hot Gas Defrost Models						
CWG100	2	1/2	7/8	1/4	3/4	131
CWG130	2	1 1/8	1 1/8	1/4	3/4	170
CWG155	2	1 1/8	1 1/8	1/4	3/4	174
CWG180	3	1 1/8	1 1/8	1/4	3/4	185
CWG210	4	1 1/8	1 1/8	1/4	3/4	223
CWG270	4	1 3/8	1 3/8	1/4	3/4	228
CWG340	5	1 3/8	1 3/8	1/4	3/4	270

Center Mount

Overview



Product Description

Center mount unit coolers, available in air or electric defrost, are ideal for tight storage situations because they are ceiling mount and have a height of only 8 - 5/8" allowing for maximum headroom in a cooler or freezer. The center mount design allows for product to be stacked all around while air flow distributes evenly throughout the box. Opting for EC motors or the Beacon II™ Refrigeration System makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- Panels on ends quickly remove for complete access to refrigerant components and electrical terminal block during installation and servicing
- Tapered mounting provides proper slope for condensate drainage to one end of the unit

Reliable & Durable

- Heavy-gauge grained aluminum cabinet cleans easily and looks attractive
- Stainless steel screws prevent rust streaks
- Wire fan guards with PVC coating for durability
- Coils are dehydrated and sealed at the factory
- Double drain pan eliminates drain pan sweating

Performance

- Quick disconnect, waterproof plug and receptacle for each motor in all models
- High-efficiency aluminum fins with full collars cover mechanically expanded copper tubes
- Highest quality tubular heaters provide fast and economical defrost
- Generous coil surface gives proper compressor balance
- Standard adjustable defrost termination fan delay thermostat
- Motors are life lubricated and thermal overload protected
- Air moves across the ceiling in both directions providing even air distribution throughout the cooler

Versatile

- Compact, ceiling mount and center mount design allows for shelving and storage of product around all walls

Nomenclature

TLC	052	A	E
Model Series	Capacity	Electrical Code	Vintage
TLC = Center Mount, air defrost TLF = Center Mount, electric defrost	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60 AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) S = Configurable	

Section 1

Center Mount

Performance & Specification Data

Performance Data – 60 HZ

Climate Control Base Model	Capacity (BTUH)			Fan Data	
	10°F TD 25°F SST	15°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	CFM
Air Defrost Models					
TLC052	5,200	7,800	-	1	610
TLC076	7,600	11,400	-	2	1,300
TLC090	9,000	13,500	-	2	1,260
TLC102	10,200	15,300	-	2	1,220
TLC108	10,800	16,200	-	3	1,950
TLC134	13,400	20,100	-	3	1,890
TLC156	15,600	23,400	-	3	1,830
TLC179	17,900	26,850	-	4	2,520
TLC208	20,800	31,200	-	4	2,440
TLC249	24,900	37,350	-	5	3,050
Electric Defrost Models					
TLF040	-	-	4,000	1	610
TLF054	-	-	5,400	2	1,300
TLF065	-	-	6,500	2	1,260
TLF090	-	-	9,000	3	1,950
TLF130	-	-	13,000	3	1,830
TLF174	-	-	17,400	4	2,440

Capacity Correction Factors For Electric Defrost Models

Saturated Suction Temperature			
+20°F	-10°F	-20°F	-30°F
1.15	1.04	1.00	0.9

Fan Motors (All Models)

115/1/60 not available on Electric Defrost Models.

No. of Fans	Motor HP	PSC Motor				EC Motor			
		115/1/60		208-230/1/60		115/1/60		208-230/1/60	
		Amps	Watts	Amps	Watts	Amps	Watts	Amps	Watts
1	1/15	0.9	90	0.5	90	0.9	55	0.5	55
2	1/15	1.8	180	1.0	180	1.8	110	1.0	110
3	1/15	2.7	270	1.5	270	2.7	165	1.5	165
4	1/15	3.6	360	2.0	360	3.6	220	2.0	220
5	1/15	4.5	450	2.5	450	4.5	275	2.5	275

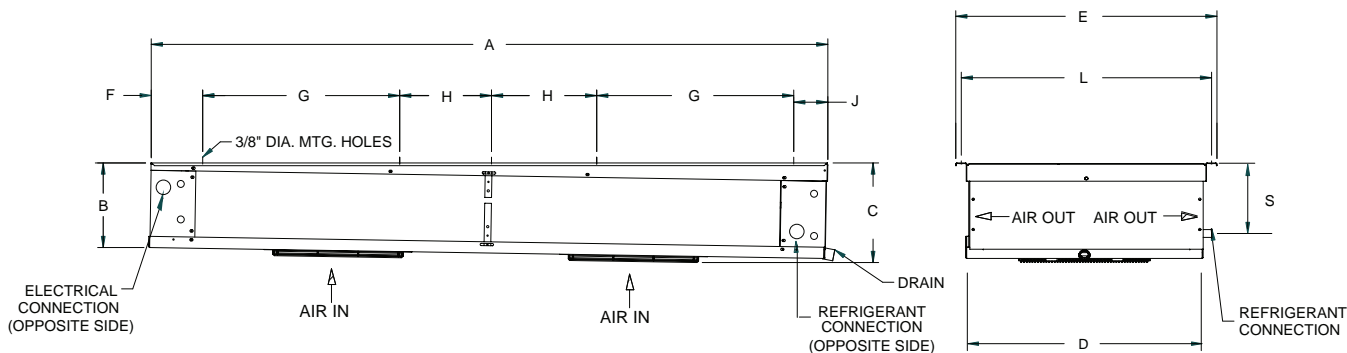
Defrost Heaters (Electric Defrost Models)

Climate Control Base Model	208-230/1/60	
	Amps	Watts
TLF040	5.3	1,200
TLF054	8.7	2,000
TLF065	8.7	2,000
TLF090	10.5	2,400
TLF130	15.7	3,600
TLF174	20.9	4,800

Center Mount

Performance & Specification Data

Section 1



Dimensional Data (All Models)

No. of Fans	Dimensions (in.)											
	A	B	C	D	E	F	G	H	J	L	P	S
1	31 1/2	6 7/8	9 1/4	26 5/8	28 11/16	5 1/2	22	-	4	27 11/16	14 5/16	5 5/16
2	53 1/2	6 7/8	9 1/4	26 5/8	28 11/16	5 1/2	22	-	4	27 11/16	14 5/16	5 5/16
3	75 1/2	6 7/8	9 1/4	26 5/8	28 11/16	5 1/2	22	11	4	27 11/16	14 5/16	5 5/16
4	97 1/2	6 7/8	9 1/4	26 5/8	28 11/16	5 1/2	22	-	4	27 11/16	14 5/16	5 5/16
5	119 1/2	6 7/8	9 1/4	26 5/8	28 11/16	5 1/2	22	11	4	27 11/16	14 5/16	5 5/16

Connection Data

Climate Control Base Model	No. of Fans	Connections (in.)				Approx. Net Weight (lbs.)
		Coil Inlet OD	Suction OD	External Equalizer OD	Drain FPT	
Air Defrost Models						
TLC052	1	1/2	7/8	1/4	3/4	42
TLC076	2	1/2	7/8	1/4	3/4	64
TLC090	2	1/2	7/8	1/4	3/4	70
TLC102	2	1/2	7/8	1/4	3/4	83
TLC108	3	1/2	7/8	1/4	3/4	105
TLC134	3	1/2	7/8	1/4	3/4	117
TLC156	3	1/2	7/8	1/4	3/4	123
TLC179	4	1/2	7/8	1/4	3/4	149
TLC208	4	1/2	1 1/8	1/4	3/4	164
TLC249	5	1/2	1 1/8	1/4	3/4	206
Electric Defrost Models						
TLF040	1	1/2	7/8	1/4	3/4	90
TLF054	2	1/2	7/8	1/4	3/4	120
TLF065	2	1/2	7/8	1/4	3/4	120
TLF090	3	1/2	7/8	1/4	3/4	160
TLF130	3	1/2	7/8	1/4	3/4	174
TLF174	4	1/2	1 1/8	1/4	3/4	218

Medium Profile

Overview



Product Description

Medium profile unit coolers, available in air, electric, and hot gas defrost, are ideal for numerous commercial and industrial applications. With a modular design that is only 25 inches high, these units provide superior quality and a long, dependable life for many different applications. Opting for EC motors or the Beacon II™ Refrigeration System makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- All electrical components factory wired to terminal board and identified, making it easy to field wire the unit
- Schrader valve provided for suction pressure measurement
- Liquid line solenoid wire harness is factory-installed for quick installation
- Coil heater slots have been enlarged for easier installation and replacement
- Heaters are coil face mounted for easy access
- Front hinged drain pan for easy access
- Motors plug into wiring harness for easier servicing

Reliable & Durable

- Heavy gauge textured aluminum cabinet
- Sweat connections to reduce potential for leaks
- Patented Thermo-Flex™ coil design allows the coil to “flex” during periods of defrost resulting in expansion of the coil surface comes with a 5-year warranty
- Heavy plastic molded fan guards for extended air throw
- Reliable nickel steel alloy defrost heater elements
- Thermally protected, lifetime-lubricated single phase PSC motors

Performance

- External equalizer connection
- Internal panels are isolated for quiet operation
- Electric defrost models have fixed defrost termination / fan delay and heater limit thermostats
- PSC motors

Versatile

- Large diameter drain fitting (3/4" ID)
- Beacon II™ compatible
- Different motor and voltage options available

Nomenclature

CM	A	130	B	A
Model Series	Model Type	Capacity	Electrical Code	Vintage
Climate Control Medium Profile Unit Coolers	A = Air Defrost, 7 FPI E = Electric Defrost, 6 FPI L = Electric Defrost, 4.5 FPI G = Hot Gas Defrost, 6 FPI F = Hot gas Defrost, 4.5 FPI	# x 100 = BTUH	A = 115/1/60 B = 208-230/1/60 C = 208-230/3/60 D = 460/3/60 M = 460/1/60 N = 110/1/50 Q = 220/1/50 R = 380/1/50 V = 380/3/50 AE = 115/1/60 (EC) BE = 208-230/1/60 (EC) CE = 208-230/3/60 (EC) S = Configurable	

Medium Profile

Performance & Specification Data

Performance Data – 60 Hz

Air throw data based on 12-ft. high ceilings with no obstructions where velocity drops to 50 FPM. Standard molded fan guards allow for extended air throw; optional wire guards promote air diffusion.

Climate Control Base Model	Capacity (BTUH)		Fan Data		Air Throw (ft.)		
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	CFM	Dia. (in.)	Extended (Std)	Diffused (Opt.)
Air Defrost Models - 7 FPI							
CMA130	13,000	-	1	2,300	18	65	50
CMA155	15,500	-	1	2,200	18	65	50
CMA245	24,500	-	2	4,600	18	65	50
CMA300	30,000	-	2	4,400	18	65	50
CMA365	36,500	-	3	6,900	18	65	50
CMA450	45,000	-	3	6,600	18	65	50
CMA510	51,000	-	4	9,200	18	65	50
CMA600	60,000	-	4	8,800	18	65	50
CMA710	71,000	-	5	10,500	18	65	50
Electric Defrost Models - 6 FPI							
CME101	-	10,100	1	2,350	18	65	50
CME140	-	14,000	1	2,250	18	65	50
CME190	-	19,000	2	4,700	18	65	50
CME260	-	26,000	2	4,500	18	65	50
CME310	-	31,000	3	7,050	18	65	50
CME390	-	39,000	3	6,750	18	65	50
CME430	-	43,000	4	8,800	18	65	50
CME520	-	52,000	4	8,400	18	65	50
CME620	-	62,000	5	10,000	18	65	50
Electric Defrost Models - 4.5 FPI							
CML100	-	10,000	1	2,325	18	65	50
CML165	-	16,500	2	4,900	18	65	50
CML220	-	22,000	2	4,650	18	65	50
CML250	-	25,000	3	7,350	18	65	50
CML330	-	33,000	3	6,975	18	65	50
CML370	-	37,000	4	9,100	18	65	50
CML440	-	44,000	4	8,700	18	65	50
CML530	-	53,000	5	10,350	18	65	50
Hot Gas Defrost Models - 6 FPI							
CMG190	-	19,000	2	4,700	18	65	50
CMG260	-	26,000	2	4,500	18	65	50
CMG310	-	31,000	3	7,050	18	65	50
CMG390	-	39,000	3	6,750	18	65	50
CMG430	-	43,000	4	8,800	18	65	50
CMG520	-	52,000	4	8,400	18	65	50
Hot Gas Defrost Models - 4.5 FPI							
CMF165	-	16,500	2	4,900	18	65	50
CMF220	-	22,000	2	4,650	18	65	50
CMF250	-	25,000	3	7,350	18	65	50
CMF330	-	33,000	3	6,975	18	65	50
CMF370	-	37,000	4	9,100	18	65	50
CMF440	-	44,000	4	8,300	18	65	50

Capacity Correction Factors For Electric and Hot Gas Defrost Models

Saturated Suction Temperature			
+20°F	-10°F	-20°F	-30°F
1.15	1.04	1.00	0.90

Medium Profile

Performance & Specification Data

Fan Motors (All Models)

115/1/60 not available on Electric Defrost Models.

No. of Fans	PSC Motor									EC Motor					
	115/1/60			208-230/1/60			460/1/60			115/1/60			208-230/1/60		
	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts
1	1/4	4.0	275	1/4	1.8	275	1/4	1.0	275	1/4	2.8	210	1/4	1.4	205
2	1/4	8.0	550	1/4	3.6	550	1/4	2.0	550	1/4	5.6	420	1/4	2.8	410
3	1/4	12.0	825	1/4	5.4	825	1/4	3.0	825	1/4	8.4	630	1/4	4.2	615
4	1/4	16.0	1,100	1/4	7.2	1,100	1/4	4.0	1,100	1/4	11.2	840	1/4	5.6	820
5	1/4	-	-	1/4	9.0	1,375	1/4	5.0	1,375	1/4	-	-	1/4	7.0	1,025

Defrost Heaters (Electric Defrost Models)

Includes coil heaters and drain pan heaters.

No. of Fans	Watts	Total Amps			
		208-230/1/60	208-230/3/60	460/1/60	460/3/60
1	2,730	11.9	8.2	5.9	4.1
2	5,350	23.3	16.0	11.6	8.3
3	7,750	33.7	23.2	16.8	12.0
4	10,200	-	30.5	22.2	15.8
5	11,600	-	34.7	25.2	18.1

Drain Pan Heaters (Hot Gas Defrost Models)

Electric drain pan standard. Hot gas drain pan optional.

No. of Fans	Watts	Total Amps		
		115/1/60	208-230/1/60	460/1/60
2	950	8.3	4.1	2.1
3	1,350	11.7	5.9	2.9
4	1,800	15.7	7.8	3.9

Connection Data

* Supplied with adapter to 7/8 ODF

Climate Control Base Model	No. of Fans	Connections (in.)						Approx. Net Weight (lbs.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Side Port ODF	Hot Gas Pan Conns. ODF	
Air Defrost Models - 7 FPI								
CMA130	1	1/2	7/8	1/4	3/4	-	-	115
CMA155	1	1/2	1 1/8	1/4	3/4	-	-	123
CMA245	2	7/8	1 1/8	1/4	3/4	-	-	134
CMA300	2	7/8	1 1/8	1/4	3/4	-	-	148
CMA365	3	7/8	1 3/8	1/4	3/4	-	-	200
CMA450	3	1 1/8*	1 3/8	1/4	3/4	-	-	227
CMA510	4	1 1/8*	1 5/8	1/4	3/4	-	-	230
CMA600	4	1 1/8*	1 5/8	1/4	3/4	-	-	255
CMA710	5	1 1/8*	1 5/8	1/4	3/4	-	-	285
Electric Defrost Models - 6 FPI								
CME101	1	1/2	7/8	1/4	3/4	-	-	118
CME140	1	1/2	7/8	1/4	3/4	-	-	126
CME190	2	7/8	1 1/8	1/4	3/4	-	-	138
CME260	2	1 1/8*	1 3/8	1/4	3/4	-	-	153
CME310	3	1 1/8*	1 3/8	1/4	3/4	-	-	210
CME390	3	1 1/8*	1 3/8	1/4	3/4	-	-	237
CME430	4	1 1/8*	1 5/8	1/4	3/4	-	-	267
CME520	4	1 1/8*	1 5/8	1/4	3/4	-	-	300
CME620	5	1 1/8*	1 5/8	1/4	3/4	-	-	338

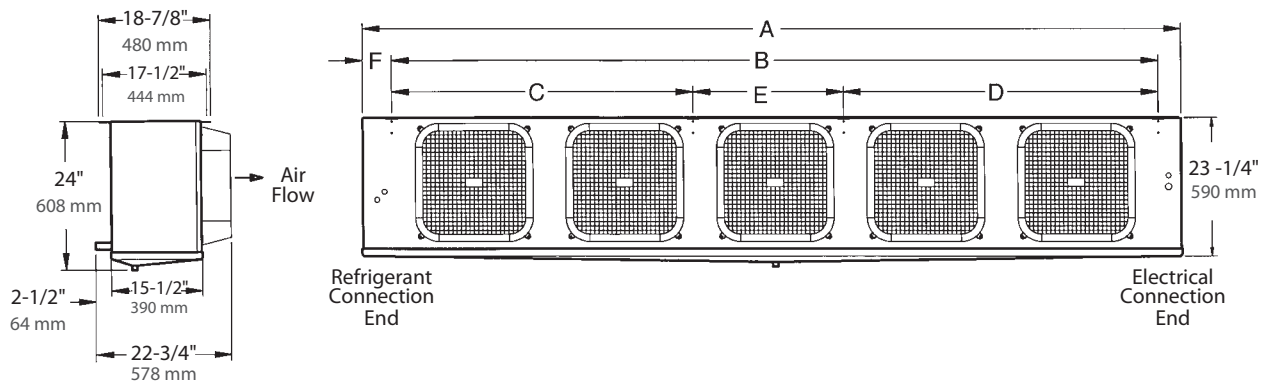
Medium Profile

Performance & Specification Data

Connection Data

* Supplied with adapter to 7/8 ODF

Climate Control Base Model	No. of Fans	Connections (in.)						Approx. Net Weight (lbs.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Side Port ODF	Hot Gas Pan Conns. ODF	
Electric Defrost Models - 4.5 FPI								
CML100	1	1/2	7/8	1/4	3/4	-	-	125
CML165	2	7/8	1 1/8	1/4	3/4	-	-	136
CML220	2	1 1/8*	1 3/8	1/4	3/4	-	-	151
CML250	3	1 1/8*	1 3/8	1/4	3/4	-	-	207
CML330	3	1 1/8*	1 3/8	1/4	3/4	-	-	234
CML370	4	1 1/8*	1 5/8	1/4	3/4	-	-	262
CML440	4	1 1/8*	1 5/8	1/4	3/4	-	-	295
CML530	5	1 1/8*	1 5/8	1/4	3/4	-	-	332
Hot Gas Defrost Models - 6 FPI								
CMG190	2	1 1/8*	1 1/8	1/4	3/4	5/8	7/8	175
CMG260	2	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	190
CMG310	3	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	210
CMG390	3	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	237
CMG430	4	1 1/8*	1 5/8	1/4	3/4	5/8	7/8	267
CMG520	4	1 1/8*	1 5/8	1/4	3/4	5/8	7/8	300
Hot Gas Defrost Models - 4.5 FPI								
CMF165	2	1 1/8*	1 1/8	1/4	3/4	5/8	7/8	173
CMF220	2	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	188
CMF250	3	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	207
CMF330	3	1 1/8*	1 3/8	1/4	3/4	5/8	7/8	234
CMF370	4	1 1/8*	1 5/8	1/4	3/4	5/8	7/8	262
CMF440	4	1 1/8*	1 5/8	1/4	3/4	5/8	7/8	295



Dimensional Data (All Models)

Note: Hanger brackets will accept 1/2" hanger rods

No. of Fans	Dimensions (in.)					
	A	B	C	D	E	F
1	39 5/16	30 1/4	-	-	-	5
2	67 5/16	58 1/4	-	-	-	5
3	95 5/16	86 1/4	-	-	-	5
4	123 5/16	114 1/4	56	58 1/4	-	5
5	138 13/16	129 3/4	51	53 1/4	25 1/2	5

Section 1

Large Unit Coolers

Overview



Product Description

The large unit cooler line, available in air, electric, and hot gas defrost, is ideal for warehouse cooler/freezer applications. These superior quality, heavy duty evaporators are available in a wide range of capacities to support many applications. Opting for EC motors or the Beacon II™ Refrigeration System makes this product qualified to be included in the **E Solutions™** product portfolio because of increased energy efficiency and cost savings.

Certifications



Standard Features

Ease of Installation & Service

- Liquid line solenoid wiring harness for faster installation
- Standardized terminal board for easier field wiring
- Hinged drain pan and access panels for easy servicing
- Suction Schrader fitting for easier suction temperature measurement
- Captive fasteners on access panels for easy servicing — no fumbling with loose bolts and nuts

Reliable & Durable

- Thermo-Flex™ (with five-year limited warranty) is innovative, eliminates leaks, and reduces risk of refrigerant loss
- Mill finish aluminum provides an attractive design and structurally sound cabinet
- PVC coated steel wire fan guards

Performance

- 850 rpm motors are quiet and reliable
- Long air throw is ideal for large warehouse and industrial application
- High CFM motors

Versatile

- Adjustable defrost control can be customized per application
- Available with air, electric, or hot gas defrost
- Beacon II™ compatible
- Many motors and voltages available

Nomenclature

CH	A	850	C	P	A
Model Series	Model Type	Capacity	Electrical Code	Optional Motor	Vintage
Climate Control Large Unit Cooler	A = Air Defrost, 6 or 8 FPI E = Electric Defrost, 6 FPI L = Electric Defrost, 4.5 FPI G = Hot Gas Defrost, 6 FPI F = Hot gas Defrost, 4.5 FPI	# x 100 = BTUH	B = 208-230/1/60 C = 208-230/3/60 D = 460/3/60 M = 460/1/60 X = 380-400/3/50 Y = 200-220/1/50 S = Configurable	T = Totally Enclosed Motors V = High CFM Option P = 3-Phase Motor	

Large Unit Coolers

Performance & Specification Data

Performance Data – 60Hz: With Standard Motors

Climate Control Base Model	Capacity (BTUH)		Fan Data		
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	Dia. (in.)	CFM
Air Defrost Models - 6 FPI					
CHA520	52,000	-	2	24	9,000
CHA630	63,000	-	2	24	9,000
CHA750	75,000	-	3	24	12,600
CHA850	85,000	-	3	24	12,600
CHA930	93,000	-	4	24	16,800
CHA1100	110,000	-	4	24	16,800
CHA1170	117,000	-	3	30	20,700
CHA1400	140,000	-	3	30	20,700
CHA1610	161,000	-	3	30	24,300
CHA1900	190,000	-	3	30	26,500
CHA2200	220,000	-	4	30	30,400
CHA2440	244,000	-	4	30	35,400
Air Defrost Models - 8 FPI					
CHA2160	216,000	-	3	30	25,950
CHA2500	250,000	-	4	30	29,600
CHA2780	278,000	-	4	30	34,600
Electric Defrost Models - 6 FPI					
CHE450	-	45,000	2	24	9,000
CHE550	-	55,000	2	24	9,000
CHE640	-	64,000	3	24	12,600
CHE740	-	74,000	3	24	12,600
CHE810	-	81,000	4	24	16,800
CHE950	-	95,000	4	24	16,800
CHE1020	-	102,000	3	30	20,700
CHE1200	-	120,000	3	30	20,700
CHE1390	-	139,000	3	30	24,300
CHE1650	-	165,000	3	30	26,550
CHE2120	-	212,000	4	30	35,400
Electric Defrost Models - 4.5 FPI					
CHL400	-	40,000	2	24	9,400
CHL480	-	48,000	2	24	9,400
CHL560	-	56,000	3	24	13,200
CHL650	-	65,000	3	24	13,200
CHL710	-	71,000	4	24	17,600
CHL840	-	84,000	4	24	17,600
CHL890	-	89,000	3	30	21,600
CHL1050	-	105,000	3	30	21,600
CHL1220	-	122,000	3	30	25,200
CHL1440	-	144,000	3	30	27,600
CHL1860	-	186,000	4	30	36,800
Hot Gas Defrost Models - 6 FPI					
CHG450	-	45,000	2	24	9,000
CHG550	-	55,000	2	24	9,000
CHG640	-	64,000	3	24	12,600
CHG740	-	74,000	3	24	12,600
CHG810	-	81,000	4	24	16,800

Climate Control Base Model	Capacity (BTUH)		Fan Data		
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	Dia. (in.)	CFM
CHG950	-	95,000	4	24	16,800
CHG1020	-	102,000	3	30	20,700
CHG1200	-	120,000	3	30	20,700
CHG1390	-	139,000	3	30	24,300
CHG1650	-	165,000	3	30	26,550
CHG2120	-	212,000	4	30	35,400
Hot Gas Defrost Models - 4.5 FPI					
CHF400	-	40,000	2	24	9,400
CHF480	-	48,000	2	24	9,400
CHF560	-	56,000	3	24	13,200
CHF650	-	65,000	3	24	13,200
CHF710	-	71,000	4	24	17,600
CHF840	-	84,000	4	24	17,600
CHF890	-	89,000	3	30	21,600
CHF1050	-	105,000	3	30	21,600
CHF1220	-	122,000	3	30	25,200
CHF1440	-	144,000	3	30	27,600
CHF1860	-	186,000	4	30	36,800

Refrigerated Warehouse Unit Coolers



Large Unit Coolers

Performance & Specification Data

Performance Data – 60Hz: With High CFM Motors

Models with High CFM Motors can handle external static pressure up to ½" of water, designed for operation below 15°F SST, and CFM is at 0.0 external static pressure.

Climate Control Base Model	Capacity (BTUH)		Fan Data		
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	Dia. (in.)	CFM
Electric Defrost Models - 6 FPI					
CHE450	-	49,500	2	24	11,300
CHE550	-	60,500	2	24	11,300
CHE640	-	70,400	3	24	15,900
CHE740	-	81,400	3	24	15,900
CHE810	-	89,100	4	24	21,200
CHE950	-	104,000	4	24	21,200
CHE1020	-	107,100	3	30	23,300
CHE1200	-	126,000	3	30	23,300
CHE1390	-	146,000	3	30	27,200
CHE1650	-	174,000	3	30	29,700
CHE2120	-	223,000	4	30	39,600
Electric Defrost Models - 4.5 FPI					
CHL400	-	42,000	2	24	12,200
CHL480	-	50,400	2	24	12,200
CHL560	-	58,800	3	24	17,000
CHL650	-	68,300	3	24	17,000
CHL710	-	74,600	4	24	22,600
CHL840	-	88,200	4	24	22,600
CHL890	-	91,200	3	30	23,800
CHL1050	-	107,600	3	30	23,800
CHL1220	-	125,000	3	30	32,800
CHL1440	-	147,000	3	30	30,600
CHL1860	-	190,000	4	30	40,800

Climate Control Base Model	Capacity (BTUH)		Fan Data		
	10°F TD 25°F SST	10°F TD -20°F SST	No. of Fans	Dia. (in.)	CFM
Hot Gas Defrost Models - 6 FPI					
CHG450	-	49,500	2	24	11,300
CHG550	-	60,500	2	24	11,300
CHG640	-	70,400	3	24	15,900
CHG740	-	81,400	3	24	15,900
CHG810	-	89,100	4	24	21,200
CHG950	-	104,000	4	24	21,200
CHG1020	-	107,100	3	30	23,300
CHG1200	-	126,000	3	30	23,300
CHG1390	-	146,000	3	30	27,200
CHG1650	-	174,000	3	30	29,700
CHG2120	-	223,000	4	30	39,600
Hot Gas Defrost Models - 4.5 FPI					
CHF400	-	42,000	2	24	12,200
CHF480	-	50,400	2	24	12,200
CHF560	-	58,800	3	24	17,000
CHF650	-	68,300	3	24	17,000
CHF710	-	74,600	4	24	22,600
CHF840	-	88,200	4	24	22,600
CHF890	-	91,200	3	30	23,800
CHF1050	-	107,600	3	30	23,800
CHF1220	-	125,000	3	30	32,800
CHF1440	-	147,000	3	30	30,600
CHF1860	-	190,000	4	30	40,800

Capacity Correction Factors For Electric and Hot Gas Defrost Models

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

Air Throw - 60 Hz

Air throw data is based on 30 ft. ceiling height with no obstruction where velocity drops to 50 fpm.

Models Used On			With Standard Motors				With High CFM Motors			
8 FPI	6 FPI	4.5 FPI	Motor RPM (1-PH)	Motor RPM (3-PH)	Air Throw (ft.) Standard	Air Throw (ft.) With Collar	Motor RPM (1-PH)	Motor RPM (3-PH)	Air Throw (ft.) Standard	Air Throw (ft.) With Collar
Air Defrost Models										
-	520 - 1100	-	850	1140	70	85	-	-	-	-
-	1170 - 1610	-	-	850	100	115	-	-	-	-
2160 - 2780	1900 - 2440	-	-	1140	120	140	-	-	-	-
Electric & Hot Gas Defrost Models										
-	450 - 550	400 - 480	850	1140	70	85	-	1750	85	100
-	640 - 950	560 - 840	-	1140	70	85	-	1750	85	100
-	1020 - 1390	890 - 1220	-	850	100	115	-	1750	110	130
-	1650 - 2120	1440 - 1860	-	1140	120	140	-	1750	130	150

Large Unit Coolers

Performance & Specification Data

Fan Motor Data – Standard Motors (Air Defrost Models)

Models Used On		208-230/1/60			460/1/60			208-230/3/60			460/3/60		
8 FPI	6 FPI	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts
Single Pole Motors Wired 1-Phase													
-	520 - 630	1/2	6.4	1,200	1/2	3.4	1,250	-	-	-	-	-	-
-	750 - 850	1/2	9.6	1,800	-	-	-	-	-	-	-	-	-
-	930 - 1100	1/2	12.8	2,400	-	-	-	-	-	-	-	-	-
Single Pole Motors Wired 3-Phase													
-	750 - 850	1/2	5.5	1,800	-	-	-	1/2	5.5	1,800	1/2	3.0	1,875
-	930 - 1100	-	-	-	-	-	-	1/2	8.7	2,400	1/2	4.7	2,500
Three Pole Motors Wired 3-Phase													
-	520 - 630	-	-	-	-	-	-	3/4	6.0	1,200	3/4	3.0	1,200
-	750 - 850	-	-	-	-	-	-	3/4	9.0	1,800	3/4	4.5	1,800
-	930 - 1100	-	-	-	-	-	-	3/4	12.0	2,400	3/4	6.0	2,400
-	1170 - 1400	-	-	-	-	-	-	1	13.8	2,550	1	6.9	2,550
-	1610	-	-	-	-	-	-	1 1/2	19.8	4,050	1 1/2	6.9	4,050
2160	1900	-	-	-	-	-	-	1 1/2	21.0	5,250	1 1/2	10.5	5,250
2500	2200	-	-	-	-	-	-	1 1/2	26.4	5,400	1 1/2	13.2	5,400
2780	2440	-	-	-	-	-	-	1 1/2	28.0	7,000	1 1/2	14.0	7,000

Fan Motor Data – Standard Motors (Electric & Hot Gas Defrost Models)

Models Used On		208-230/1/60			460/1/60			208-230/3/60			460/3/60		
6 FPI	4.5 FPI	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts	Motor HP	Amps	Watts
Single Pole Motors Wired 1-Phase													
450 - 550	400 - 480	1/2	6.4	1,200	1/2	3.4	1,250	-	-	-	-	-	-
Single Pole Motors Wired 3-Phase													
640 - 740	560 - 650	1/2	5.5	1,800	1/2	3.0	1,875	-	-	-	-	-	-
810 - 950	710 - 840	1/2	8.7	2,400	1/2	4.7	2,500	-	-	-	-	-	-
Three Pole Motors Wired 3-Phase													
450 - 550	400 - 480	-	-	-	-	-	-	3/4	6.0	1,200	3/4	3.0	1,200
640 - 740	560 - 650	-	-	-	-	-	-	3/4	9.0	1,800	3/4	4.5	1,800
810 - 950	710 - 840	-	-	-	-	-	-	3/4	12.0	2,400	3/4	6.0	2,400
1020 - 1200	890 - 1050	-	-	-	-	-	-	1	13.8	2,550	1	6.9	2,550
1390	1220	-	-	-	-	-	-	1 1/2	19.8	4,050	1 1/2	6.9	4,050
1650	1440	-	-	-	-	-	-	1 1/2	21.0	5,250	1 1/2	10.5	5,250
2120	1860	-	-	-	-	-	-	1 1/2	28.0	7,000	1 1/2	14.0	7,000

Fan Motor Data – High CFM Motors (Electric & Hot Gas Defrost Models)

Models Used On		208-230/3/60			460/3/60		
6 FPI	4.5 FPI	Motor HP	Amps	Watts	Motor HP	Amps	Watts
Three Pole Motors Wired 3-Phase							
450 - 550	400 - 480	2	12.0	3,100	2	6.0	3,100
640 - 740	560 - 650	2	18.0	4,650	2	9.0	4,650
810 - 950	710 - 840	2	24.0	6,200	2	12.0	6,200
1020 - 1650	890 - 1440	3	24.6	7,500	3	12.3	7,500
2120	1860	3	32.8	10,000	3	16.4	10,000

Large Unit Coolers

Performance & Specification Data

Defrost Heaters (Electric Defrost Models)

Includes coil heaters and drain pan heaters.

Models Used On		Watts	Total Amps	
6 FPI	4.5 FPI		208-230/3/60	460/3/60
450 - 550	400 - 480	9,900	27.5	13.9
640 - 740	560 - 650	12,900	35.8	18.1
810 - 950	710 - 840	17,050	47.8	24.3
1020 - 1390	890 - 1220	21,400	64.2	32.1
1650	1440	33,600	87.2	47.5
2120	1860	49,850	128.4	70.0

Drain Pan Heaters (Hot Gas Defrost Models)

Electric drain pan standard. Hot gas drain pan optional.

* Model supplied with 3-Phase drain pan heaters.

Models Used On		Watts	Total Amps	
6 FPI	4.5 FPI		208-230/1/60	460/1/60
450 - 550	400 - 480	2,100	9.2	4.6
640 - 740	560 - 650	2,700	11.8	5.9
810 - 1390	710 - 1220	4,000	17.4	8.7
1650	1440	4,200	18.2	9.1
2120	1860	6,450	23.2*	13.4

Connection Data

* Opposite end connections

Climate Control Base Model	No. of Fans	Connections (in.)						Approx. Net Weight (lbs.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Hot Gas Side Port ODF	Hot Gas Drain Pan Ref. Conn. (when supplied)	
Air Defrost Models - 6 FPI								
CHA520	2	1 1/8	1 5/8	1/4	1 1/4	-	-	270
CHA630	2	1 1/8	1 5/8	1/4	1 1/4	-	-	300
CHA750	3	1 3/8	2 1/8	1/4	1 1/4	-	-	390
CHA850	3	1 3/8	2 1/8	1/4	1 1/4	-	-	430
CHA930	4	1 3/8	2 1/8	1/4	1 1/4	-	-	515
CHA1100	4	1 3/8	2 1/8	1/4	1 1/4	-	-	565
CHA1170	3	1 3/8	2 1/8	1/4	1 1/4	-	-	738
CHA1400	3	1 5/8	2 1/8	1/4	1 1/4	-	-	800
CHA1610	3	(2) 1 3/8	(2) 2 1/8	(2) 1/4	1 1/4	-	-	850
CHA1900	3	1 3/8	2 5/8	1/4	1 1/4	-	-	1,160
CHA2200	4	1 3/8	2 5/8	1/4	1 1/4	-	-	1,500
CHA2440	4	1 5/8	2 5/8	1/4	1 1/4	-	-	1,600
Air Defrost Models - 8 FPI								
CHA2160	3	1 3/8	2 5/8	1/4	1 1/4	-	-	1,160
CHA2500	4	1 3/8	2 5/8	1/4	1 1/4	-	-	1,500
CHA2780	4	1 3/8	2 5/8	1/4	1 1/4	-	-	1,600
Electric Defrost Models - 6 FPI								
CHE450	2	1 1/8	1 5/8	1/4	1 1/4	-	-	280
CHE550	2	1 1/8	1 5/8	1/4	1 1/4	-	-	310
CHE640	3	1 3/8	2 1/8	1/4	1 1/4	-	-	405
CHE740	3	1 3/8	2 1/8	1/4	1 1/4	-	-	445

Large Unit Coolers

Performance & Specification Data

Connection Data

* Opposite end connections

Climate Control Base Model	No. of Fans	Connections (in.)						Approx. Net Weight (lbs.)
		Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Hot Gas Side Port ODF	Hot Gas Drain Pan Ref. Conn. (when supplied)	
CHE810	4	1 3/8	2 1/8	1/4	1 1/4	-	-	535
CHE950	4	1 3/8	2 1/8	1/4	1 1/4	-	-	585
CHE1020	3	1 3/8	2 1/8	1/4	1 1/4	-	-	753
CHE1200	3	1 5/8	2 1/8	1/4	1 1/4	-	-	815
CHE1390	3	(2) 1 3/8	(2) 2 1/8	(2) 1/4	1 1/4	-	-	865
CHE1650	3	1 3/8	2 5/8	1/4	1 1/4	-	-	1,175
CHE2120	4	1 5/8	2 5/8	1/4	1 1/4	-	-	1,620
Electric Defrost Models - 4.5 FPI								
CHL400	2	1 1/8	1 5/8	1/4	1 1/4	-	-	277
CHL480	2	1 1/8	1 5/8	1/4	1 1/4	-	-	306
CHL560	3	1 3/8	2 1/8	1/4	1 1/4	-	-	400
CHL650	3	1 3/8	2 1/8	1/4	1 1/4	-	-	440
CHL710	4	1 3/8	2 1/8	1/4	1 1/4	-	-	528
CHL840	4	1 3/8	2 1/8	1/4	1 1/4	-	-	578
CHL890	3	1 3/8	2 1/8	1/4	1 1/4	-	-	744
CHL1050	3	1 5/8	2 1/8	1/4	1 1/4	-	-	805
CHL1220	3	(2) 1 3/8	(2) 2 1/8	(2) 1/4	1 1/4	-	-	854
CHL1440	3	1 3/8	2 5/8	1/4	1 1/4	-	-	1,160
CHL1860	4	1 5/8	2 5/8	1/4	1 1/4	-	-	1,600
Hot Gas Defrost Models - 6 FPI								
CHG450	2	1 1/8	1 5/8	1/4	1 1/4	5/8	1 1/8	280
CHG550	2	1 1/8	1 5/8	1/4	1 1/4	5/8	1 1/8	310
CHG640	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	405
CHG740	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	445
CHG810	4	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	535
CHG950	4	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	585
CHG1020	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 3/8	753
CHG1200	3	1 5/8	2 1/8	1/4	1 1/4	1 1/8	1 3/8	815
CHG1390	3	(2) 1 3/8	(2) 2 1/8	(2) 1/4	1 1/4	(2) 7/8	1 3/8	865
CHG1650	3	(2) 1 3/8	(2) 2 5/8	(2) 1/4	1 1/4	(2) 7/8	1 5/8*	1,175
CHG2120	4	(2) 1 3/8	(2) 2 5/8	(2) 1/4	1 1/4	(2) 7/8	1 5/8*	1,620
Hot Gas Defrost Models - 4.5 FPI								
CHF400	2	1 1/8	1 5/8	1/4	1 1/4	5/8	1 1/8	277
CHF480	2	1 1/8	1 5/8	1/4	1 1/4	5/8	1 1/8	306
CHF560	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	400
CHF650	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	440
CHF710	4	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	528
CHF840	4	1 3/8	2 1/8	1/4	1 1/4	7/8	1 1/8	578
CHF890	3	1 3/8	2 1/8	1/4	1 1/4	7/8	1 3/8	744
CHF1050	3	1 5/8	2 1/8	1/4	1 1/4	1 1/8	1 3/8	805
CHF1220	3	(2) 1 3/8	(2) 2 1/8	(2) 1/4	1 1/4	(2) 7/8	1 3/8	854
CHF1440	3	(2) 1 3/8	(2) 2 5/8	(2) 1/4	1 1/4	(2) 7/8	1 5/8*	1,160
CHF1860	4	(2) 1 3/8	(2) 2 5/8	(2) 1/4	1 1/4	(2) 7/8	1 5/8*	1,600

Section 1

Large Unit Coolers

Performance & Specification Data

Dimensional Drawings

Diagram 1

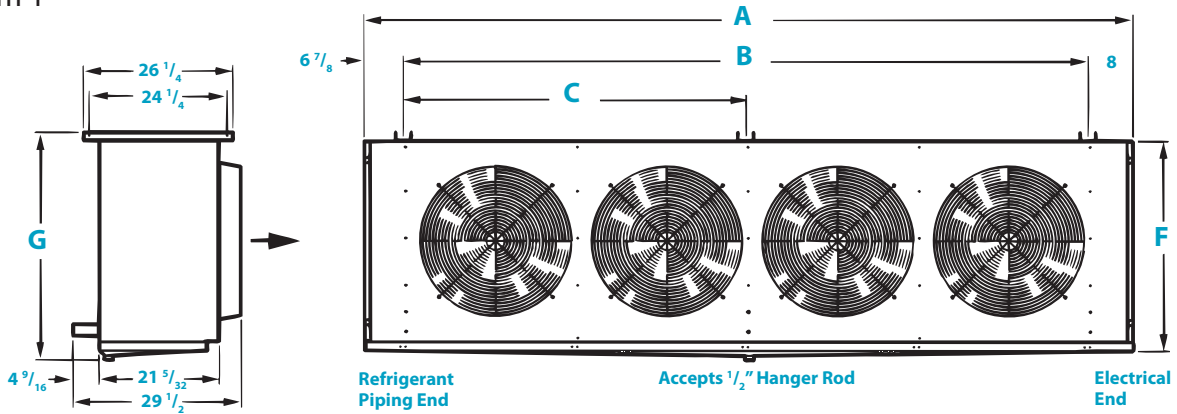
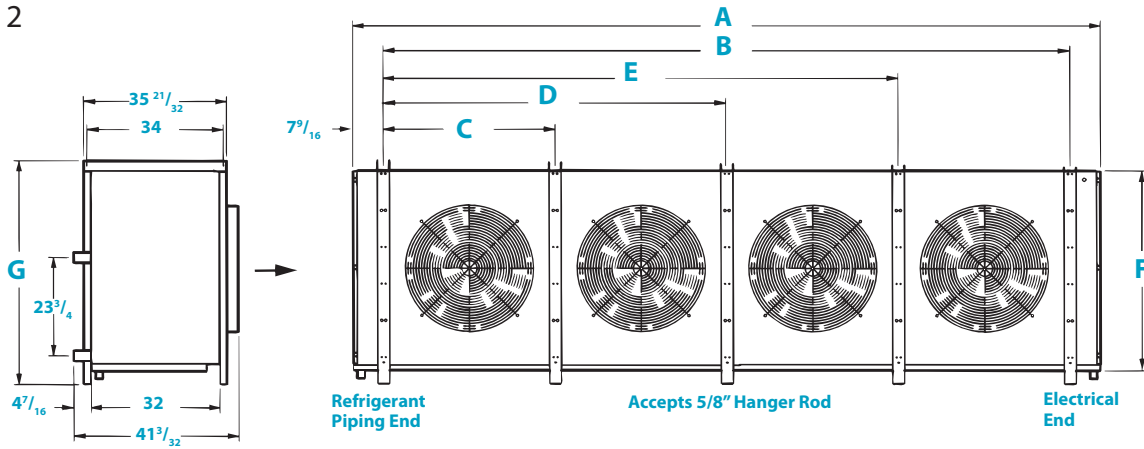


Diagram 2



Dimensional Data (All Models)

Air Defrost Models		Electric and Hot Gas Defrost Models		Diagram	Dimensions (in.)						
6 FPI	8 FPI	6 FPI	4.5 FPI		A	B	C	D	E	F	G
520	-	450	400	Diagram 1	83 3/32	68 1/8	-	-	-	37 3/16	40 11/32
630	-	550	480	Diagram 1	83 3/32	68 1/8	-	-	-	37 3/16	40 11/32
750	-	640	560	Diagram 1	105 5/32	90 3/16	45 3/32	-	-	37 3/16	40 11/32
850	-	740	650	Diagram 1	105 5/32	90 3/16	45 3/32	-	-	37 3/16	40 11/32
930	-	810	710	Diagram 1	135 7/32	120 1/4	60 1/8	-	-	37 3/16	40 11/32
1100	-	950	840	Diagram 1	135 7/32	120 1/4	60 1/8	-	-	37 3/16	40 11/32
1170	-	1020	890	Diagram 2	135 13/32	120 9/32	40 3/32	80 3/16	-	44 1/2	50 1/4
1400	-	1200	1050	Diagram 2	135 13/32	120 9/32	40 3/32	80 3/16	-	44 1/2	50 1/4
1610	-	1390	1220	Diagram 2	135 13/32	120 9/32	40 3/32	80 3/16	-	50 7/32	55 7/8
1900	2160	1650	1440	Diagram 2	142 15/16	127 7/8	42 5/8	85 1/4	-	50 7/32	55 7/8
2200	2500	-	-	Diagram 2	185 1/2	170 1/2	42 5/8	85 1/4	127 7/8	44 1/2	50 11/16
2440	2780	2120	1860	Diagram 2	185 1/2	170 1/2	42 5/8	85 1/4	127 7/8	50 7/32	56 5/32

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1/2 - 6 HP G-Series

Overview



Product Description

Heatcraft Worldwide Refrigeration is proud to introduce the new G-Series ½-6 HP Outdoor Condensing Unit. Building upon the Heatcraft legacy of quality, the G-Series is centered around the industry leading microchannel coil, along with scroll compressor technology, which are designed to optimize operational efficiency. In addition, Heatcraft has updated its pricing strategy on scroll compressors to deliver a quicker return on your investment in a quality refrigeration condensing unit.

The G-Series contains multiple enhancements, targeted around improving the way service providers interact with the unit in the field and operational efficiency gains, while maintaining the performance characteristics of other outdoor condensing units.

Certifications



Cabinet & Construction

- Microchannel coil technology standard
- Painted (or unpainted) galvanized steel cabinets for superior strength and corrosion protection
- Heavy duty base with rigging holes
- Crankcase heaters standard on all units

Serviceability

- Receiver with fusible plug, liquid shutoff valve and charging port is standard
- Large electrical panel for ease of access
- Prefabricated wiring harnesses for tight crimp connections and consistent labeling
- Unit stays on if the hood is removed for servicing
- Sight glass is easily viewable
- Discharge service valves
- Customer connection raised above base for ease of installation

Quality

- All units are completely leak tested, using helium, bump tested and allowed to cycle off on the high and low pressure control. Each unit ships with a copy of the run test data inside the electrical panel
- Electrical circuits are completely checked for continuity
- Piping is laid out to minimize stress and vibration, and is pre-bent to eliminate leaks
- Robust shipping pallet to reduce stacking/freight damage
- Recessed coil to prevent incidental contact damage

Components

Fan

- Specifically matched with motor and coil to attain maximum air movement and cooling

Motor

- Rated for 50 and 60 cycle application
- Standard PSC or optional Variable Speed EC (VSEC) with Orbus™ Controller

Compressor

- Wide variety of compressors including:
- Multi-temperature and low temperature scroll suited for multi-refrigerant types (R-404A/507, R-407A, R-407C)
- Medium and low temperature InterLink™ hermetic compressors suited for R-404A/507

Nomenclature

G	Z	T	020	L	6	C	F
Model	Compressor	Application	Equiv. HP	Operating Range	Refrigerant	Voltage	Identifier
G = G-Series	Z = Scroll I = InterLink™ Hermetic	T = Outdoor S = Beacon II™	004 = 1/2 HP 008 = 3/4HP 010 = 1 HP 01* = 1-1/2HP 02* = 2HP 03* = 3HP 04* = 4HP 05* = 5HP 060 = 6HP	L = Low M = Medium	6 = R-404A/507 (Scrolls also rated for R-407A and R-407C)	B = 208-230/1/60 C = 208-230/3/60 D = 460/3/60	F = Stockable Model

1/2 - 6 HP G-Series

Performance Data

Models with Scroll Compressors

* = T for Outdoor, S for Beacon II™

^ =Voltage Code (B, C, or D)

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
GZ*020M6^	ZS15KAE	15°F	14,370	13,870	13,370	12,380
GZ*020M6^	ZS15KAE	10°F	13,120	12,670	12,220	11,310
GZ*020M6^	ZS15KAE	5°F	11,960	11,550	11,140	10,310
GZ*020M6^	ZS15KAE	0°F	10,850	10,490	10,120	-
GZ*020M6^	ZS15KAE	-5°F	9,830	9,500	9,170	-
GZ*020M6^	ZS15KAE	-10°F	8,810	8,520	8,220	-
GZ*020M6^	ZS15KAE	-15°F	7,810	7,550	-	-
GZ*020M6^	ZS15KAE	-20°F	6,790	6,570	-	-
GZ*020M6^	ZS15KAE	-25°F	5,730	-	-	-
GZ*020M6^	ZS15KAE	-30°F	4,610	-	-	-
GZ*025M6^	ZS19KAE	40°F	23,870	23,000	-	-
GZ*025M6^	ZS19KAE	35°F	22,080	21,290	-	-
GZ*025M6^	ZS19KAE	30°F	20,370	19,640	18,910	-
GZ*025M6^	ZS19KAE	25°F	18,750	18,080	17,410	-
GZ*025M6^	ZS19KAE	20°F	17,270	16,650	16,040	-
GZ*025M6^	ZS19KAE	15°F	15,820	15,260	14,700	13,590
GZ*025M6^	ZS19KAE	10°F	14,470	13,970	13,460	12,450
GZ*025M6^	ZS19KAE	5°F	13,210	12,750	12,290	-
GZ*025M6^	ZS19KAE	0°F	12,020	11,600	11,180	-
GZ*025M6^	ZS19KAE	-5°F	10,860	10,490	10,120	-
GZ*025M6^	ZS19KAE	-10°F	9,770	9,440	9,110	-
GZ*025M6^	ZS19KAE	-15°F	8,660	8,360	-	-
GZ*025M6^	ZS19KAE	-20°F	7,520	-	-	-
GZ*025M6^	ZS19KAE	-25°F	6,340	-	-	-
GZ*025M6^	ZS19KAE	-30°F	-	-	-	-
GZ*030M6^	ZS21KAE	40°F	35,000	33,850	32,800	30,710
GZ*030M6^	ZS21KAE	35°F	32,260	31,200	30,180	28,330
GZ*030M6^	ZS21KAE	30°F	29,530	28,570	27,650	26,010
GZ*030M6^	ZS21KAE	25°F	26,920	26,060	25,230	23,780
GZ*030M6^	ZS21KAE	20°F	24,450	23,660	22,920	21,620
GZ*030M6^	ZS21KAE	15°F	22,110	21,400	20,730	19,590
GZ*030M6^	ZS21KAE	10°F	19,940	19,290	18,670	17,650
GZ*030M6^	ZS21KAE	5°F	17,870	17,260	16,690	15,780
GZ*030M6^	ZS21KAE	0°F	15,940	15,370	14,840	14,010
GZ*030M6^	ZS21KAE	-5°F	14,150	13,610	13,100	12,320
GZ*030M6^	ZS21KAE	-10°F	12,480	11,950	11,460	-
GZ*030M6^	ZS21KAE	-15°F	10,910	10,390	9,900	-
GZ*030M6^	ZS21KAE	-20°F	9,460	8,910	-	-
GZ*030M6^	ZS21KAE	-25°F	8,080	7,520	-	-
GZ*030M6^	ZS21KAE	-30°F	6,770	-	-	-
GZ*035M6^	ZS26KAE	40°F	38,170	36,930	35,710	-
GZ*035M6^	ZS26KAE	35°F	35,180	34,130	33,010	-
GZ*035M6^	ZS26KAE	30°F	32,340	31,310	30,320	28,470

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
GZ*035M6^	ZS26KAE	25°F	29,550	28,620	27,730	26,100
GZ*035M6^	ZS26KAE	20°F	26,890	26,060	25,260	23,830
GZ*035M6^	ZS26KAE	15°F	24,390	23,640	22,920	21,640
GZ*035M6^	ZS26KAE	10°F	21,990	21,310	20,670	19,560
GZ*035M6^	ZS26KAE	5°F	19,770	19,140	18,550	17,550
GZ*035M6^	ZS26KAE	0°F	17,630	17,050	16,530	15,620
GZ*035M6^	ZS26KAE	-5°F	15,620	15,070	14,560	-
GZ*035M6^	ZS26KAE	-10°F	13,710	13,180	12,700	-
GZ*035M6^	ZS26KAE	-15°F	11,870	11,360	10,880	-
GZ*035M6^	ZS26KAE	-20°F	10,090	9,580	-	-
GZ*035M6^	ZS26KAE	-25°F	8,380	7,850	-	-
GZ*035M6^	ZS26KAE	-30°F	6,680	-	-	-
GZ*045M6^	ZS29KAE	40°F	41,610	40,260	38,950	-
GZ*045M6^	ZS29KAE	35°F	38,430	37,210	36,100	-
GZ*045M6^	ZS29KAE	30°F	35,420	34,300	33,220	-
GZ*045M6^	ZS29KAE	25°F	32,410	31,410	30,440	-
GZ*045M6^	ZS29KAE	20°F	29,550	28,650	27,790	26,270
GZ*045M6^	ZS29KAE	15°F	26,840	26,020	25,250	23,900
GZ*045M6^	ZS29KAE	10°F	24,250	23,510	22,820	21,640
GZ*045M6^	ZS29KAE	5°F	21,780	21,110	20,480	19,450
GZ*045M6^	ZS29KAE	0°F	19,480	18,850	18,260	-
GZ*045M6^	ZS29KAE	-5°F	17,260	16,680	16,120	-
GZ*045M6^	ZS29KAE	-10°F	15,140	14,570	14,040	-
GZ*045M6^	ZS29KAE	-15°F	13,100	12,530	12,010	-
GZ*045M6^	ZS29KAE	-20°F	11,100	10,530	-	-
GZ*045M6^	ZS29KAE	-25°F	9,150	-	-	-
GZ*045M6^	ZS29KAE	-30°F	7,210	-	-	-
Medium Temperature (R-407C)						
GZ*010M6^	ZS09KAE	40°F	14,420	14,040	13,650	12,890
GZ*010M6^	ZS09KAE	35°F	13,230	12,880	12,530	11,830
GZ*010M6^	ZS09KAE	30°F	12,070	11,760	11,450	10,820
GZ*010M6^	ZS09KAE	25°F	10,980	10,700	10,420	9,850
GZ*010M6^	ZS09KAE	20°F	9,910	9,660	9,400	8,880
GZ*010M6^	ZS09KAE	15°F	8,890	8,670	8,430	7,950
GZ*010M6^	ZS09KAE	10°F	7,910	7,700	7,490	7,040
GZ*010M6^	ZS09KAE	5°F	6,950	6,760	6,560	6,150
GZ*010M6^	ZS09KAE	0°F	6,010	5,840	5,660	5,270
GZ*010M6^	ZS09KAE	-5°F	5,090	4,930	4,760	4,390
GZ*010M6^	ZS09KAE	-10°F	4,170	4,020	3,860	3,510
GZ*010M6^	ZS09KAE	-15°F	3,240	3,100	2,950	-
GZ*010M6^	ZS09KAE	-20°F	2,300	2,160	2,010	-
GZ*010M6^	ZS09KAE	-25°F	1,330	1,200	1,060	-
GZ*010M6^	ZS09KAE	-30°F	-	-	-	-

Air-Cooled Condensing Units



1/2 - 6 HP G-Series

Performance Data

Models with Scroll Compressors

* = T for Outdoor, S for Beacon II™

^ =Voltage Code (B, C, or D)

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
GZ*045L6^	ZF13K4E	-20°F	12,840	12,360	11,880	10,860
GZ*045L6^	ZF13K4E	-25°F	11,280	10,860	10,440	9,550
GZ*045L6^	ZF13K4E	-30°F	9,920	9,570	9,210	8,450
GZ*045L6^	ZF13K4E	-40°F	7,910	7,710	7,480	6,990
GZ*055L6^	ZF15K4E	0°F	24,450	23,610	22,680	20,820
GZ*055L6^	ZF15K4E	-10°F	19,630	18,920	18,180	16,610
GZ*055L6^	ZF15K4E	-15°F	17,470	16,800	16,140	14,710
GZ*055L6^	ZF15K4E	-20°F	15,490	14,910	14,300	12,990
GZ*055L6^	ZF15K4E	-25°F	13,720	13,200	12,650	11,470
GZ*055L6^	ZF15K4E	-30°F	12,170	11,730	11,240	10,180
GZ*055L6^	ZF15K4E	-40°F	9,910	9,570	9,190	8,350
GZ*060L6^	ZF18K4E	0°F	28,440	27,490	26,520	-
GZ*060L6^	ZF18K4E	-10°F	23,060	22,280	21,460	19,770
GZ*060L6^	ZF18K4E	-15°F	20,560	19,850	19,120	17,580
GZ*060L6^	ZF18K4E	-20°F	18,290	17,650	16,990	15,590
GZ*060L6^	ZF18K4E	-25°F	16,220	15,630	15,060	13,810
GZ*060L6^	ZF18K4E	-30°F	14,410	13,910	13,380	12,250
GZ*060L6^	ZF18K4E	-40°F	11,670	11,290	10,890	9,980
Low Temperature (R-407C)						
GZ*020L6^	ZF06K4E	0°F	11,070	10,720	10,350	9,570
GZ*020L6^	ZF06K4E	-10°F	8,990	8,690	8,420	7,800
GZ*020L6^	ZF06K4E	-15°F	8,020	7,780	7,530	6,990
GZ*020L6^	ZF06K4E	-20°F	7,120	6,910	6,690	6,220
GZ*020L6^	ZF06K4E	-25°F	6,290	6,100	5,910	5,500
GZ*020L6^	ZF06K4E	-30°F	5,530	5,360	5,200	4,840
GZ*020L6^	ZF06K4E	-40°F	4,200	4,070	3,940	3,670
GZ*030L6^	ZF09K4E	0°F	14,390	13,950	13,500	-
GZ*030L6^	ZF09K4E	-10°F	11,970	12,810	11,280	10,610
GZ*030L6^	ZF09K4E	-15°F	10,730	10,430	10,140	9,560
GZ*030L6^	ZF09K4E	-20°F	9,530	9,270	9,020	8,520
GZ*030L6^	ZF09K4E	-25°F	8,400	8,170	7,940	7,510
GZ*030L6^	ZF09K4E	-30°F	7,370	7,170	6,970	6,590
GZ*030L6^	ZF09K4E	-40°F	5,830	5,640	5,460	5,130
GZ*035L6^	ZF11K4E	0°F	16,990	16,370	15,750	-
GZ*035L6^	ZF11K4E	-10°F	14,280	15,120	13,340	-
GZ*035L6^	ZF11K4E	-15°F	12,850	12,460	12,070	-
GZ*035L6^	ZF11K4E	-20°F	11,460	11,120	10,780	10,070
GZ*035L6^	ZF11K4E	-25°F	10,120	9,830	9,540	8,940
GZ*035L6^	ZF11K4E	-30°F	8,910	8,650	8,400	7,900
GZ*035L6^	ZF11K4E	-40°F	7,070	6,850	6,630	6,230
GZ*045L6^	ZF13K4E	0°F	22,060	21,370	20,660	19,120
GZ*045L6^	ZF13K4E	-10°F	17,630	19,140	16,420	15,110
GZ*045L6^	ZF13K4E	-15°F	15,610	15,070	14,510	13,310

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
GZ*045L6^	ZF13K4E	-20°F	13,730	13,250	12,770	11,700
GZ*045L6^	ZF13K4E	-25°F	12,070	11,650	11,210	10,290
GZ*045L6^	ZF13K4E	-30°F	10,630	10,270	9,920	9,110
GZ*045L6^	ZF13K4E	-40°F	8,530	8,310	8,090	7,590
GZ*055L6^	ZF15K4E	0°F	23,100	22,380	21,610	19,960
GZ*055L6^	ZF15K4E	-10°F	18,510	20,070	17,260	15,860
GZ*055L6^	ZF15K4E	-15°F	16,420	15,860	15,280	14,010
GZ*055L6^	ZF15K4E	-20°F	14,500	14,000	13,480	12,330
GZ*055L6^	ZF15K4E	-25°F	12,790	12,350	11,880	10,850
GZ*055L6^	ZF15K4E	-30°F	11,300	10,920	10,510	9,600
GZ*055L6^	ZF15K4E	-40°F	9,180	8,900	8,590	7,860
GZ*060L6^	ZF18K4E	0°F	30,540	29,590	28,620	-
GZ*060L6^	ZF18K4E	-10°F	24,700	26,670	23,080	21,360
GZ*060L6^	ZF18K4E	-15°F	22,000	21,280	20,530	18,960
GZ*060L6^	ZF18K4E	-20°F	19,560	18,910	18,240	16,810
GZ*060L6^	ZF18K4E	-25°F	17,360	16,780	16,170	14,880
GZ*060L6^	ZF18K4E	-30°F	15,440	14,920	14,380	13,220
GZ*060L6^	ZF18K4E	-40°F	12,560	12,170	11,750	10,810

1/2 - 6 HP G-Series

Performance Data

Models with InterLink Compressors

* = T for Outdoor, S for Beacon II™
 ^ =Voltage Code (B, C, or D)

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
Medium Temperature (R-404A/507)						
GI*004M6^	BA7443	30°F	5,870	5,390	5,080	4,720
GI*004M6^	BA7443	25°F	5,550	5,040	4,680	4,290
GI*004M6^	BA7443	20°F	5,270	4,650	4,250	3,820
GI*004M6^	BA7443	15°F	4,960	4,300	3,820	3,340
GI*004M6^	BA7443	10°F	4,740	4,000	3,440	2,880
GI*004M6^	BA7443	5°F	4,560	3,730	3,140	2,480
GI*004M6^	BA7443	0	4,430	3,590	2,930	2,190
GI*008M6^	BA7459	30°F	7,430	7,020	6,570	5,640
GI*008M6^	BA7459	25°F	7,040	6,710	6,240	5,340
GI*008M6^	BA7459	20°F	6,520	6,270	5,870	4,980
GI*008M6^	BA7459	15°F	5,890	5,760	5,420	4,560
GI*008M6^	BA7459	10°F	5,140	5,190	4,930	4,120
GI*008M6^	BA7459	5°F	4,300	4,600	4,430	3,670
GI*008M6^	BA7459	0	3,260	4,010	3,950	3,270
GI*010M6^	WJ9485	30°F	10,190	9,670	9,160	8,050
GI*010M6^	WJ9485	25°F	9,260	8,770	8,310	7,390
GI*010M6^	WJ9485	20°F	8,480	8,010	7,570	6,730
GI*010M6^	WJ9485	15°F	7,810	7,310	6,870	6,140
GI*010M6^	WJ9485	10°F	7,180	6,670	6,240	5,550
GI*010M6^	WJ9485	5°F	6,660	6,080	5,620	4,960
GI*010M6^	WJ9485	0	6,100	5,480	4,990	4,330
GI*015M6^	AW7512	30°F	15,860	14,900	13,910	12,060
GI*015M6^	AW7512	25°F	14,460	13,540	12,680	10,980
GI*015M6^	AW7512	20°F	13,060	12,270	11,460	9,870
GI*015M6^	AW7512	15°F	11,750	11,000	10,270	8,820
GI*015M6^	AW7512	10°F	10,450	9,760	9,070	7,790
GI*015M6^	AW7512	5°F	9,180	8,540	7,940	6,780
GI*015M6^	AW7512	0	7,950	7,400	6,850	5,820
GI*020M6^	AW7514	30°F	17,380	16,360	15,330	13,260
GI*020M6^	AW7514	25°F	15,940	15,020	14,030	12,080
GI*020M6^	AW7514	20°F	14,540	13,610	12,650	10,870
GI*020M6^	AW7514	15°F	13,130	12,250	11,400	9,710
GI*020M6^	AW7514	10°F	11,830	10,960	10,110	8,570
GI*020M6^	AW7514	5°F	10,580	9,670	8,880	7,460
GI*020M6^	AW7514	0	9,350	8,470	7,700	6,390
GI*025M6^	AW7516	30°F	20,330	19,160	18,000	15,720
GI*025M6^	AW7516	25°F	19,000	17,850	16,730	14,500

Climate Control Base Model	Compressor	Suction Temp. (°F)	Capacity (BTUH)			
			Ambient Temperature (°F)			
			90°F	95°F	100°F	110°F
GI*025M6^	AW7516	20°F	17,470	16,350	15,220	13,260
GI*025M6^	AW7516	15°F	15,920	14,780	13,840	11,870
GI*025M6^	AW7516	10°F	14,360	13,270	12,290	10,560
GI*025M6^	AW7516	5°F	12,910	11,880	10,910	9,210
GI*025M6^	AW7516	0°F	11,610	10,500	9,540	7,970
GI*030M6^	AW7524	30°F	32,020	29,960	28,080	24,440
GI*030M6^	AW7524	25°F	30,170	28,300	26,460	23,040
GI*030M6^	AW7524	20°F	28,160	26,350	24,710	21,420
GI*030M6^	AW7524	15°F	26,000	24,320	22,700	19,620
GI*030M6^	AW7524	10°F	23,610	22,020	20,500	17,630
GI*030M6^	AW7524	5°F	21,070	19,580	18,160	15,470
GI*030M6^	AW7524	0°F	18,420	16,980	15,670	13,230
Low Temperature (R-404A/507)						
GI*010L6^	AW2450	0	6,620	6,170	5,680	4,730
GI*010L6^	AW2450	-5°F	5,890	5,410	4,950	4,070
GI*010L6^	AW2450	-10°F	5,140	4,700	4,260	3,420
GI*010L6^	AW2450	-15°F	4,460	4,010	3,570	2,770
GI*010L6^	AW2450	-20°F	3,790	3,350	2,940	2,170
GI*010L6^	AW2450	-25°F	3,200	2,750	2,330	1,600
GI*010L6^	AW2450	-30°F	2,640	2,190	1,790	1,080
GI*014L6^	AW2495	0	9,520	8,930	8,390	7,260
GI*014L6^	AW2495	-5°F	8,450	7,940	7,420	6,420
GI*014L6^	AW2495	-10°F	7,560	6,980	6,490	5,640
GI*014L6^	AW2495	-15°F	6,810	6,190	5,650	4,850
GI*014L6^	AW2495	-20°F	6,130	5,450	4,890	4,100
GI*014L6^	AW2495	-25°F	5,490	4,750	4,150	3,370
GI*014L6^	AW2495	-30°F	4,970	4,150	3,470	2,630
GI*025L6^	AW2510	0	15,570	14,550	13,560	11,690
GI*025L6^	AW2510	-5°F	14,100	13,190	12,230	10,440
GI*025L6^	AW2510	-10°F	12,610	11,750	10,840	9,200
GI*025L6^	AW2510	-15°F	11,140	10,320	9,510	7,990
GI*025L6^	AW2510	-20°F	9,690	8,900	8,160	6,780
GI*025L6^	AW2510	-25°F	8,170	7,450	6,770	5,550
GI*025L6^	AW2510	-30°F	6,570	5,930	5,350	4,300

Section 1

Air-Cooled Condensing Units



1/2 - 6 HP G-Series

Unit Specifications

Models with Scrolls Compressors

* = T for Outdoor, S for Beacon II™

^ = Voltage Code (B, C, or D)

† = Estimated sound pressure at 10 ft.

Climate Control Base Model	Compressor	Connections (in.)		Receiver 90% Full (lbs.)	Fan(s)	Cabinet	Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA †
		Liquid ID	Suction ID				Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
GZ*010M6^	ZS09KAE	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	173	69
GZ*015M6^	ZS13KAE	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	175	69
GZ*020M6^	ZS15KAE	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	179	69
GZ*025M6^	ZS19KAE	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	188	69
GZ*030M6^	ZS21KAE	1/2	7/8	14	1	D	27-5/16	43-1/8	29-1/16	246	69
GZ*035M6^	ZS26KAE	1/2	7/8	14	1	D	27-5/16	43-1/8	29-1/16	249	69
GZ*045M6^	ZS29KAE	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	276	69
GZ*055M6^	ZS38K4E	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	276	69
GZ*060M6^	ZS45K4E	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	276	69
Low Temperature (R-404A/507)											
GZ*020L6^	ZF06K4E	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	179	69
GZ*025L6^	ZF08K4E	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	182	69
GZ*030L6^	ZF09K4E	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	186	69
GZ*035L6^	ZF11K4E	1/2	7/8	9	2	C	25-1/16	40-1/8	19-3/16	187	69
GZ*045L6^	ZF13K4E	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	266	69
GZ*055L6^	ZF15K4E	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	272	69
GZ*060L6^	ZF18K4E	1/2	1-1/8	14	1	D	27-5/16	43-1/8	29-1/16	276	69

1/2 - 6 HP G-Series

Unit Specifications

Models with InterLink Compressors

* = T for Outdoor, S for Beacon II™

^ = Voltage Code (B, C, or D)

† = Estimated sound pressure at 10 ft.

Climate Control Base Model	Compressor	Connection (in.)		Receiver 90% Full (lbs.)	Fan(s)	Cabinet	Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA †
		Liquid ID	Suction ID				Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
GI*004M6^	BA7443	3/8	1/2	5.5	1	A	25-1/16	27-1/8	16-7/16	114	66
GI*008M6^	BA7459	3/8	1/2	5.5	1	A	25-1/16	27-1/8	16-7/16	115	66
GI*010M6^	WJ9485	3/8	1/2	5.5	1	A	25-1/16	27-1/8	16-7/16	118	66
GI*015M6^	AW7512	3/8	5/8	5.5	2	B	25-1/16	40-1/8	16-7/16	166	69
GI*020M6^	AW7514	3/8	5/8	5.5	2	B	25-1/16	40-1/8	16-7/16	176	69
GI*025M6^	AW7516	3/8	5/8	5.5	2	B	25-1/16	40-1/8	16-7/16	181	69
GI*030M6^	AW7524	1/2	7/8	14	1	D	27-5/16	43-1/8	29-1/16	231	70
Low Temperature (R-404A/507)											
GI*010L6^	AW2450	3/8	5/8	5.5	1	A	25-1/16	27-1/8	16-7/16	115	66
GI*014L6^	AW2495	3/8	5/8	5.5	1	A	25-1/16	27-1/8	16-7/16	150	66
GI*025L6^	AW2510	3/8	5/8	5.5	2	B	25-1/16	40-1/8	16-7/16	195	69

Air-Cooled Condensing Units



1/2 - 6 HP G-Series

Electrical Data

Models with Scroll Compressors

* = T for Outdoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec. Htrs
Medium Temperature (R-404A/507)													
GZ*010M6B	ZS09KAE-PFV	208-230/1/60	9	40.3	2	1/15	1.0	15.0	20	37.5	35	10	30
GZ*010M6C	ZS09KAE-TF5	208-230/3/60	7.2	55.4	2	1/15	1.0	15.0	15	28.8	25	9	23
GZ*010M6D	ZS09KAE-TFD	460/3/60	3.4	28	2	1/15	1.0	15.0	15	—	—	—	—
GZ*015M6B	ZS13KAE-PFV	208-230/1/60	10.8	56	2	1/15	1.0	15.0	25	37.5	35	10	30
GZ*015M6C	ZS13KAE-TF5	208-230/3/60	8.7	58	2	1/15	1.0	15.0	20	28.8	25	9	23
GZ*015M6D	ZS13KAE-TFD	460/3/60	4.3	29	2	1/15	1.0	15.0	15	—	—	—	—
GZ*020M6B	ZS15KAE-PFV	208-230/1/60	14.1	68	2	1/15	1.0	20.0	30	37.5	40	10	30
GZ*020M6C	ZS15KAE-TF5	208-230/3/60	9.6	58	2	1/15	1.0	15.0	20	28.8	30	9	23
GZ*020M6D	ZS15KAE-TFD	460/3/60	4.8	29	2	1/15	1.0	15.0	15	—	—	—	—
GZ*025M6B	ZS19KAE-PFV	208-230/1/60	16.2	75	2	1/15	1.0	21.2	35	37.5	45	10	30
GZ*025M6C	ZS19KAE-TF5	208-230/3/60	12.3	73	2	1/15	1.0	20.0	25	28.8	35	9	23
GZ*025M6D	ZS19KAE-TFD	460/3/60	5.8	38	2	1/15	1.0	15.0	15	—	—	—	—
GZ*030M6B	ZS21KAE-PFV	208-230/1/60	20.8	112	1	1/3	3.5	29.5	50	39.5	60	10	30
GZ*030M6C	ZS21KAE-TF5	208-230/3/60	13.7	93	1	1/3	3.5	20.6	30	37.5	40	10	30
GZ*030M6D	ZS21KAE-TFD	460/3/60	6.2	48	1	1/3	1.9	15.0	15	28.8	25	9	23
GZ*035M6B	ZS26KAE-PFV	208-230/1/60	21.2	104	1	1/3	3.5	29.9	50	39.9	60	10	30
GZ*035M6C	ZS26KAE-TF5	208-230/3/60	13.9	93	1	1/3	3.5	20.9	30	37.5	40	10	30
GZ*035M6D	ZS26KAE-TFD	460/3/60	6.2	48	1	1/3	1.9	15.0	15	28.8	25	9	23
GZ*045M6B	ZS29KAE-PFV	208-230/1/60	23.4	137	1	1/3	3.5	32.7	50	42.7	60	10	30
GZ*045M6C	ZS29KAE-TF5	208-230/3/60	18.4	114	1	1/3	3.5	26.5	40	37.5	50	10	30
GZ*045M6D	ZS29KAE-TFD	460/3/60	8.4	58	1	1/3	1.9	15.0	20	28.8	25	9	23
GZ*055M6B	ZS38K4E-PFV	208-230/1/60	28.5	169	1	1/3	3.5	39.2	60	49.2	70	10	30
GZ*055M6C	ZS38K4E-TF5	208-230/3/60	19.2	123	1	1/3	3.5	27.5	45	37.5	50	10	30
GZ*055M6D	ZS38K4E-TFD	460/3/60	8.7	62	1	1/3	1.9	15.0	20	28.8	30	9	23
GZ*060M6C	ZS45K4E-TF5	208-230/3/60	21.5	156	1	1/3	3.5	30.3	50	40.3	60	10	30
GZ*060M6D	ZS45K4E-TFD	460/3/60	8.3	75	1	1/3	1.9	15.0	20	28.8	25	9	23
Low Temperature (R-404A/507)													
GZ*020L6B	ZF06K4E-PFV	208-230/1/60	12.2	61	2	1/15	1.0	20.0	25	37.5	35	10	30
GZ*020L6C	ZF06K4E-TF5	208-230/3/60	8.3	55	2	1/15	1.0	15.0	15	28.8	25	9	23
GZ*020L6D	ZF06K4E-TFD	460/3/60	3.8	27	2	1/15	1.0	15.0	15	—	—	—	—
GZ*025L6B	ZF08K4E-PFV	208-230/1/60	14.7	73	2	1/15	1.0	20.0	30	37.5	40	10	30
GZ*025L6C	ZF08K4E-TF5	208-230/3/60	8.7	63	2	1/15	1.0	15.0	20	28.8	25	9	23
GZ*025L6D	ZF08K4E-TFD	460/3/60	4.5	31	2	1/15	1.0	15.0	15	—	—	—	—
GZ*030L6B	ZF09K4E-PFV	208-230/1/60	12.8	88	2	1/15	1.0	20.0	25	37.5	35	10	30
GZ*030L6C	ZF09K4E-TF5	208-230/3/60	8.7	77	2	1/15	1.0	15.0	20	28.8	25	9	23
GZ*030L6D	ZF09K4E-TFD	460/3/60	4.5	39	2	1/15	1.0	15.0	15	—	—	—	—
GZ*035L6B	ZF11K4E-PFV	208-230/1/60	18.6	109	2	1/15	1.0	24.2	40	37.5	50	10	30
GZ*035L6C	ZF11K4E-TF5	208-230/3/60	10.9	88	2	1/15	1.0	15.0	25	28.8	30	9	23

1/2 - 6 HP G-Series

Electrical Data

Models with Scroll Compressors

* = T for Outdoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec. Htrs
GZ*035L6D	ZF11K4E-TFD	460/3/60	5.8	44	2	1/15	1.0	15.0	15	—	—	—	—
GZ*045L6B	ZF13K4E-PFV	208-230/1/60	22.4	129	1	1/3	3.5	31.5	50	41.5	60	10	30
GZ*045L6C	ZF13K4E-TF5	208-230/3/60	11.9	99	1	1/3	3.5	20.0	30	37.5	40	10	30
GZ*045L6D	ZF13K4E-TFD	460/3/60	6.4	49.5	1	1/3	1.9	15.0	15	28.8	25	9	23
GZ*055L6B	ZF15K4E-PFV	208-230/1/60	24.7	169	1	1/3	3.5	34.3	50	44.3	60	10	30
GZ*055L6C	ZF15K4E-TF5	208-230/3/60	17	123	1	1/3	3.5	24.7	40	37.5	50	10	30
GZ*055L6D	ZF15K4E-TFD	460/3/60	8	62	1	1/3	1.9	15.0	15	28.8	25	9	23
GZ*060L6C	ZF18K4E-TF5	208-230/3/60	19.6	156	1	1/3	3.5	27.9	45	37.9	50	10	30
GZ*060L6D	ZF18K4E-TFD	460/3/60	8	75	1	1/3	1.9	15.0	15	28.8	25	9	23

Air-Cooled Condensing Units



1/2 - 6 HP G-Series

Electrical Data

Models with InterLink Hermetic Compressors

* = T for Outdoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec. Htrs
Medium Temperature (R-404A/507)													
GI*004M6B	BA7443Z-2	208-230/1/60	5.6	30	1	1/15	0.5	15.0	15	20.0	20	5	15
GI*008M6B	BA7459Z-2	208-230/1/60	6.2	38	1	1/15	0.5	15.0	15	20.0	20	5	15
GI*010M6B	WJ9485Z-2	208-230/1/60	8	43	1	1/15	0.5	15.0	15	20.0	20	5	15
GI*010M6C	WJ9485ZXT	208-230/3/60	7.1	50	1	1/15	0.5	15.0	15	20.0	20	5	15
GI*015M6B	AW7512Z-2	208-230/1/60	9.5	58	2	1/15	1	15.0	20	23.8	25	6	19
GI*015M6C	AW7512ZXT	208-230/3/60	6.2	48	2	1/15	1	15.0	15	23.8	20	6	19
GI*020M6B	AW7514Z-2	208-230/1/60	11.3	62	2	1/15	1	20.0	25	23.8	30	6	19
GI*020M6C	AW7514ZXT	208-230/3/60	7.4	46	2	1/15	1	15.0	15	23.8	20	6	19
GI*025M6B	AW7516Z-2	208-230/1/60	12.7	73	2	1/15	1	20.0	25	23.8	35	6	19
GI*025M6C	AW7516ZXT	208-230/3/60	9.2	60	2	1/15	1	15.0	20	23.8	25	6	19
GI*030M6B	AW7524Z-2	208-230/1/60	20.1	110	1	1/3	3.5	28.7	45	38.7	50	10	30
GI*030M6C	AW7524ZXT	208-230/3/60	10.8	65	1	1/3	3.5	20.0	25	37.5	35	10	30
Low Temperature (R-404A/507)													
GI*010L6B	AW2450ZK-2	208-230/1/60	8.1	54	1	1/15	0.5	15.0	15	20.0	20	5	15
GI*014L6B	AW2495Z-2	208-230/1/60	10.6	75	1	1/15	0.5	15.0	20	20.0	25	5	15
GI*025L6B	AW2510Z-2	208-230/1/60	16.5	90	2	1/15	1	21.7	35	27.7	40	6	19
GI*025L6C	AW2510ZXT	208-230/1/60	8.6	65	2	1/15	1	15.0	20	23.8	25	6	19

1/2 - 6 HP Horizontal Air Discharge

Overview



Product Description

The 1/2 through 6 HP line of air-cooled condensing units with HyperCore™ microchannel coil technology is ideal for convenience store, restaurant and other commercial applications. Available with hermetic, Scroll®, or semi-hermetic compressors and indoor or outdoor models, this line is a good fit for many applications.

Opting for the Beacon II™ Refrigeration System with Smart Defrost, factory-installed Smart Defrost Kit™ (SDK), or Variable Speed EC (VSEC) motor with Orbus™ Controller increases energy efficiency and qualifies this product for the **E Solutions™** product portfolio.

Certifications



Cabinet & Construction

- HyperCore microchannel coil technology standard on most models.
- Painted steel cabinets for superior strength and corrosion protection
- Heavy duty steel raised base with 1-1/2" legs
- Fan guards and wiring conduit on indoor models

Serviceability

- Suction service valves for hermetic and scroll compressors located outside the cabinet for quick installations. Semi-hermetic compressor models have a suction valve on the compressor and an access fitting on the suction line entering the cabinet.
- Receiver with fusible plug, liquid shutoff valve and charging port is standard
- Large electrical panel for ease of access
- Prefabricated wiring harnesses for tight crimp connections and consistent labeling
- Unit stays on if the hood is removed for servicing
- Sight glass is easily viewable

Quality

- All units are completely leak tested in a helium environment, bump tested and allowed to cycle off on the high and low pressure control. Each unit has a copy of the run data shipped inside the electrical panel
- Electrical circuits are completely checked for continuity
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate leaks
- Encapsulated, auto-reset, high and low pressure controls to eliminate leaks (standard on all high and medium temperature models, adjustable low pressure control standard on low temperature models)

Components

Fan

- Specifically matched with motor and coil to attain maximum air movement and cooling

Motor

- Rated for 50 and 60 cycle application
- Standard PSC or optional Variable Speed EC (VSEC) with Orbus™ Controller

Compressor

- Wide variety of compressors including: hermetic, semi-hermetic and scroll. R-22 and R-404A/507 available for both medium and low temperature applications
- Spring-mounted compressors with vibration eliminators on all 1-1/2 to 6 HP semi-hermetic compressors; 1/2 to 1 HP compressors are rigid mounted and have a discharge loop
- Discharge service valves come standard on all units including hermetics

Nomenclature

C	H	T	030	L	6	C	F
Model	Compressor	Application	Equiv. HP	Operating Range	Refrigerant	Voltage	Identifier
C = Climate Control	H = Hermetic S = Semi-herm. Z = Scroll	T = Outdoor N = Indoor S = Beacon II™	005 = 1/2 HP 008/009 = 3/4HP 010,011 = 1 HP 01* = 1-1/2HP 02* = 2HP 03* = 3HP 04* = 4HP 05* = 5HP 060 = 6HP	H = High L = Low M = Medium E = Extra Low X = Extended Medium	2 = R-22 6 = R-404A/507	B = 208-230/1/60 C = 208-230/3/60 D = 460/3/60	F = Stockable Model

½ - 6 HP Horizontal Air Discharge

Performance Data

Models with Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

† = RS Compressor not suitable for R-507

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CH*050X6	CS33K6E	-10°F	17,610	17,300	16,200	14,100
CH*050X6	CS33K6E	-20°F	13,500	12,700	11,800	10,400
CH*050X6	CS33K6E	-25°F	11,700	10,900	10,000	9,010
Low Temperature (R-404A/507)						
CH*011L6	CF04K6E	0°F	7,030	6,840	6,310	5,240
CH*011L6	CF04K6E	-5°F	6,240	5,750	5,170	4,450
CH*011L6	CF04K6E	-10°F	5,370	4,920	4,460	3,620
CH*011L6	CF04K6E	-20°F	3,850	3,650	3,300	2,630
CH*011L6	CF04K6E	-25°F	3,330	3,020	2,660	2,100
CH*011L6	CF04K6E	-30°F	2,630	2,360	2,070	1,710
CH*014L6	CF06K6E	0°F	10,500	9,900	9,310	8,310
CH*014L6	CF06K6E	-5°F	9,380	8,840	8,280	7,340
CH*014L6	CF06K6E	-10°F	7,830	7,750	7,280	6,420
CH*014L6	CF06K6E	-20°F	6,090	5,670	5,280	4,580
CH*014L6	CF06K6E	-25°F	4,890	4,710	4,350	3,730
CH*014L6	CF06K6E	-30°F	4,080	3,680	3,510	2,990
CH*019L6	CF06K6E	0°F	12,100	11,400	10,700	9,330
CH*019L6	CF06K6E	-5°F	10,180	10,100	9,430	8,170
CH*019L6	CF06K6E	-10°F	8,910	8,750	8,170	7,040
CH*019L6	CF06K6E	-20°F	6,580	6,040	5,810	4,920
CH*019L6	CF06K6E	-25°F	5,530	5,030	4,570	3,980
CH*019L6	CF06K6E	-30°F	4,570	4,150	3,700	3,090
CH*025L6	CF09K6E	0°F	15,550	15,400	14,500	12,700
CH*025L6	CF09K6E	-5°F	14,500	13,700	12,800	11,400
CH*025L6	CF09K6E	-10°F	12,700	12,000	11,200	9,900
CH*025L6	CF09K6E	-20°F	9,000	8,300	8,130	7,030
CH*025L6	CF09K6E	-25°F	7,560	6,950	6,410	5,760
CH*025L6	CF09K6E	-30°F	6,230	5,750	5,220	4,590
CH*031L6	CF12K6E	0°F	18,840	17,690	17,600	15,700
CH*031L6	CF12K6E	-5°F	17,800	16,800	15,090	14,000
CH*031L6	CF12K6E	-10°F	15,140	14,360	13,410	12,400
CH*031L6	CF12K6E	-20°F	11,540	10,910	10,700	9,250
CH*031L6	CF12K6E	-25°F	9,790	9,170	9,040	7,690
CH*031L6	CF12K6E	-30°F	8,070	7,470	7,320	6,100
Medium & High Temperature (R-22)						
CH*005H2	RST45C1	40°F	7,470	7,170	6,850	6,240
CH*005H2	RST45C1	30°F	5,640	5,410	5,200	4,960
CH*005H2	RST45C1	25°F	5,090	4,870	4,680	4,430
CH*005H2	RST45C1	20°F	4,610	4,410	4,430	4,010
CH*005H2	RST45C1	15°F	4,170	3,990	3,990	3,550
CH*005H2	RST45C1	10°F	3,740	3,580	3,410	3,190
CH*005H2	RST45C1	0°F	2,940	2,790	28,180	26,260
CH*010H2	RST70C1	40°F	11,360	10,870	10,380	9,490
CH*010H2	RST70C1	30°F	10,100	9,120	8,690	8,250
CH*010H2	RST70C1	25°F	8,620	8,150	7,820	6,950
CH*010H2	RST70C1	20°F	7,730	7,350	6,910	6,170

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CH*010H2	RST70C1	15°F	6,840	6,490	6,140	5,440
CH*010H2	RST70C1	10°F	6,070	5,740	5,410	4,380
CH*010H2	RST70C1	0°F	4,280	3,870	25,240	26,840
CH*015X6	CS10K6E	30°F	16,890	15,760	14,650	12,410
CH*015X6	CS10K6E	25°F	15,410	14,380	13,350	11,290
CH*015X6	CS10K6E	20°F	13,950	12,950	12,000	10,150
CH*015X6	CS10K6E	0°F	8,290	7,640	6,990	5,720
CH*020X6	CS12K6E	30°F	18,160	17,020	15,900	13,640
CH*020X6	CS12K6E	25°F	16,690	15,630	14,580	12,490
CH*020X6	CS12K6E	20°F	15,150	14,180	13,210	11,230
CH*020X6	CS12K6E	0°F	8,890	8,220	7,560	6,240
CH*025X6	CS14K6E	30°F	19,710	18,400	17,100	14,520
CH*025X6	CS14K6E	25°F	18,240	17,050	15,840	13,460
CH*025X6	CS14K6E	20°F	16,760	15,650	14,560	12,380
CH*025X6	CS14K6E	0°F	10,740	10,020	9,290	7,870
CH*030X6	CS18K6E	30°F	29,790	28,030	26,270	22,780
CH*030X6	CS18K6E	25°F	27,110	25,470	23,830	20,570
CH*030X6	CS18K6E	20°F	24,490	22,960	21,430	18,420
CH*030X6	CS18K6E	0°F	14,760	13,680	12,620	10,570
CH*032X6	CS20K6E	30°F	33,800	31,670	29,600	25,460
CH*032X6	CS20K6E	25°F	30,260	28,180	26,260	22,560
CH*032X6	CS20K6E	20°F	26,900	25,100	23,350	19,920
CH*032X6	CS20K6E	0°F	16,460	15,220	13,990	11,610
CH*040X6	CS27K6E	30°F	41,740	40,100	38,410	35,100
CH*040X6	CS27K6E	25°F	37,160	35,550	34,010	30,990
CH*040X6	CS27K6E	20°F	32,900	31,490	30,100	27,310
CH*040X6	CS27K6E	0°F	19,420	18,510	17,610	15,800
CH*050X6	CS33K6E	30°F	50,620	47,240	43,850	37,320
CH*050X6	CS33K6E	25°F	45,890	42,590	39,430	33,280
CH*050X6	CS33K6E	20°F	41,260	38,260	35,280	29,400
CH*050X6	CS33K6E	0°F	25,470	23,270	21,110	16,940

Section 2

Air-Cooled Condensing Units



1/2 - 6 HP Horizontal Air Discharge

Performance Data

Models with Semi-Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
Medium Temperature (R-404A/507)						
CS*010M6	KAR-010E	25°F	9,680	9,140	8,680	7,740
CS*010M6	KAR-010E	20°F	8,730	8,300	7,950	7,000
CS*010M6	KAR-010E	15°F	7,930	7,600	7,110	6,350
CS*010M6	KAR-010E	10°F	7,260	6,870	6,410	5,720
CS*010M6	KAR-010E	5°F	6,500	6,150	5,780	5,120
CS*010M6	KAR-010E	0°F	5,890	5,550	5,220	4,600
CS*010M6	KAR-010E	-5°F	5,000	4,730	4,450	3,900
CS*020M6	KAK-020E	25°F	16,890	16,240	15,590	14,290
CS*020M6	KAK-020E	20°F	15,110	14,530	13,950	12,790
CS*020M6	KAK-020E	15°F	13,590	13,070	12,550	11,500
CS*020M6	KAK-020E	10°F	12,260	11,790	11,320	10,380
CS*020M6	KAK-020E	5°F	11,070	10,640	10,210	9,360
CS*020M6	KAK-020E	0°F	9,940	9,560	9,180	8,410
CS*020M6	KAK-020E	-5°F	8,690	8,360	8,030	7,360
CS*021M6	ERC-021E	25°F	19,930	18,850	17,840	15,840
CS*021M6	ERC-021E	20°F	17,400	16,500	16,280	14,610
CS*021M6	ERC-021E	15°F	15,800	14,900	14,870	12,600
CS*021M6	ERC-021E	10°F	14,300	13,500	13,440	11,850
CS*021M6	ERC-021E	5°F	12,800	12,700	11,970	10,470
CS*021M6	ERC-021E	0°F	11,840	11,140	10,450	9,180
CS*021M6	ERC-021E	-5°F	10,220	9,580	8,940	7,770
CS*030M6	ERF-031E	25°F	30,880	29,690	28,500	26,130
CS*030M6	ERF-031E	20°F	28,310	27,220	26,130	23,950
CS*030M6	ERF-031E	15°F	25,730	24,740	23,750	21,770
CS*030M6	ERF-031E	10°F	23,180	22,290	21,400	19,620
CS*030M6	ERF-031E	5°F	20,690	19,890	19,090	17,500
CS*030M6	ERF-031E	0°F	18,260	17,560	16,860	15,450
CS*030M6	ERF-031E	-5°F	15,950	15,340	14,730	13,500
Low Temperature (R-404A/507)						
CS*005L6	KAN-005E	0°F	3,530	3,310	3,100	2,680
CS*005L6	KAN-005E	-5°F	3,150	2,940	2,760	2,360
CS*005L6	KAN-005E	-10°F	2,760	2,580	2,400	2,030
CS*005L6	KAN-005E	-20°F	2,050	1,900	1,750	1,440
CS*005L6	KAN-005E	-25°F	1,720	1,580	1,450	1,160
CS*005L6	KAN-005E	-30°F	1,420	1,300	1,170	900
CS*005L6	KAN-005E	-40°F	930	830	750	520
CS*008L6	KAM-007E	0°F	6,010	5,520	5,290	4,560
CS*008L6	KAM-007E	-5°F	5,360	4,900	4,680	4,010
CS*008L6	KAM-007E	-10°F	4,730	4,320	4,100	3,470
CS*008L6	KAM-007E	-20°F	3,570	3,280	3,020	2,480

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CS*008L6	KAM-007E	-25°F	3,050	2,810	2,540	2,030
CS*008L6	KAM-007E	-30°F	2,580	2,390	2,100	1,620
CS*008L6	KAM-007E	-40°F	1,820	1,620	1,400	970
CS*010L6	KAJ-010E	0°F	7,770	7,220	6,900	6,040
CS*010L6	KAJ-010E	-5°F	6,990	6,480	6,180	5,370
CS*010L6	KAJ-010E	-10°F	6,240	5,790	5,470	4,720
CS*010L6	KAJ-010E	-20°F	4,830	4,520	4,160	3,510
CS*010L6	KAJ-010E	-25°F	4,190	3,940	3,570	2,960
CS*010L6	KAJ-010E	-30°F	3,610	3,390	3,030	2,470
CS*010L6	KAJ-010E	-40°F	2,640	2,440	2,150	1,660
CS*015L6	KAL-015E	0°F	11,780	10,960	10,520	9,290
CS*015L6	KAL-015E	-5°F	10,600	9,930	9,460	8,320
CS*015L6	KAL-015E	-10°F	9,470	8,920	8,410	7,370
CS*015L6	KAL-015E	-20°F	7,340	6,990	6,440	5,560
CS*015L6	KAL-015E	-25°F	6,370	6,110	5,540	4,710
CS*015L6	KAL-015E	-30°F	5,500	5,300	4,700	3,930
CS*015L6	KAL-015E	-40°F	4,020	3,930	3,300	2,580
CS*020L6	EAD-020E	0°F	13,780	12,530	12,140	10,510
CS*020L6	EAD-020E	-5°F	12,290	11,160	10,730	9,210
CS*020L6	EAD-020E	-10°F	10,860	9,870	9,400	7,950
CS*020L6	EAD-020E	-20°F	8,260	7,520	6,970	6,000
CS*020L6	EAD-020E	-25°F	7,120	6,490	5,920	4,720
CS*020L6	EAD-020E	-30°F	6,100	5,560	4,980	3,880
CS*020L6	EAD-020E	-40°F	4,470	3,980	3,530	2,610
CS*021L6	EAV-021E	0°F	15,120	13,920	13,390	11,670
CS*021L6	EAV-021E	-5°F	13,660	12,600	12,110	10,570
CS*021L6	EAV-021E	-10°F	12,200	11,280	10,810	9,450
CS*021L6	EAV-021E	-20°F	9,420	8,780	8,260	7,130
CS*021L6	EAV-021E	-25°F	8,140	7,610	7,060	5,990
CS*021L6	EAV-021E	-30°F	6,980	6,520	5,940	4,900
CS*021L6	EAV-021E	-40°F	5,160	4,590	4,050	2,950
CS*030E6	LAC-032E	0°F	-	-	-	-
CS*030E6	LAC-032E	-5°F	-	-	-	-
CS*030E6	LAC-032E	-10°F	-	-	-	-
CS*030E6	LAC-032E	-20°F	16,780	15,700	14,630	12,510
CS*030E6	LAC-032E	-25°F	14,570	13,550	12,530	10,510
CS*030E6	LAC-032E	-30°F	12,540	11,580	10,640	8,760
CS*030E6	LAC-032E	-40°F	9,010	8,270	7,540	6,090
CS*030L6	LAH-032E	0°F	22,600	21,310	20,020	17,480
CS*030L6	LAH-032E	-5°F	20,320	19,100	17,890	15,490
CS*030L6	LAH-032E	-10°F	18,090	16,930	15,790	13,530

Section 2

1/2 - 6 HP Horizontal Air Discharge

Performance Data

Models with Semi-Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CS*030L6	LAH-032E	-20°F	13,810	12,800	11,790	9,800
CS*030L6	LAH-032E	-25°F	11,830	10,880	9,940	8,080
CS*030L6	LAH-032E	-30°F	9,970	9,100	8,230	6,490
CS*030L6	LAH-032E	-40°F	6,780	6,040	5,300	3,750
Medium & High Temperature (R-22)						
CS*008H2	KAN-0075	40°F	9,110	8,840	8,520	7,860
CS*008H2	KAN-0075	30°F	7,630	7,310	7,030	6,470
CS*008H2	KAN-0075	25°F	6,900	6,630	6,370	5,860
CS*008H2	KAN-0075	20°F	6,230	5,990	5,750	5,280
CS*008H2	KAN-0075	10°F	4,640	4,430	4,230	3,840
CS*008H2	KAN-0075	0°F	-	-	-	-
CS*008M2	KAE-0075	40°F	-	-	-	-
CS*008M2	KAE-0075	30°F	-	-	-	-
CS*008M2	KAE-0075	25°F	7,850	7,510	7,190	6,480
CS*008M2	KAE-0075	20°F	7,110	6,780	6,470	5,860
CS*008M2	KAE-0075	10°F	5,770	5,510	5,250	4,760
CS*008M2	KAE-0075	0°F	4,420	4,250	4,270	3,840
CS*010H2	KAR-0100	40°F	12,910	12,410	11,910	10,920
CS*010H2	KAR-0100	30°F	10,670	10,260	9,850	9,030
CS*010H2	KAR-0100	25°F	9,630	9,260	8,890	8,150
CS*010H2	KAR-0100	20°F	8,630	8,300	7,970	7,300
CS*010H2	KAR-0100	10°F	6,830	6,570	6,310	5,780
CS*010H2	KAR-0100	0°F	-	-	-	-
CS*010M2	KAM-0100	40°F	-	-	-	-
CS*010M2	KAM-0100	30°F	-	-	-	-
CS*010M2	KAM-0100	25°F	9,920	9,580	9,240	8,530
CS*010M2	KAM-0100	20°F	8,950	8,630	8,310	7,670
CS*010M2	KAM-0100	10°F	7,110	6,840	6,570	6,030
CS*010M2	KAM-0100	0°F	5,370	5,140	4,910	4,430
CS*015H2	KAG-0150	40°F	16,990	16,340	15,690	14,380
CS*015H2	KAG-0150	30°F	13,880	13,350	12,820	11,750
CS*015H2	KAG-0150	25°F	12,720	12,230	11,740	10,760
CS*015H2	KAG-0150	20°F	11,440	11,000	10,560	9,680
CS*015H2	KAG-0150	10°F	9,120	8,770	8,420	7,720
CS*015H2	KAG-0150	0°F	-	-	-	-
CS*020H2	ERA-0200	40°F	22,270	21,310	19,300	17,200
CS*020H2	ERA-0200	30°F	16,800	15,900	15,000	13,400
CS*020H2	ERA-0200	25°F	14,500	13,700	12,900	11,500
CS*020H2	ERA-0200	20°F	12,300	11,500	10,800	9,540
CS*020H2	ERA-0200	10°F	7,970	7,220	6,540	5,510
CS*020H2	ERA-0200	0°F	-	-	-	-

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CS*020M2	KAK-0200	40°F	-	-	-	-
CS*020M2	KAK-0200	30°F	-	-	-	-
CS*020M2	KAK-0200	25°F	17,190	16,530	15,870	14,550
CS*020M2	KAK-0200	20°F	15,510	14,910	14,310	13,120
CS*020M2	KAK-0200	10°F	12,450	11,970	11,490	10,530
CS*020M2	KAK-0200	0°F	9,880	9,500	9,120	8,360
CS*021M2	ERC-0200	40°F	-	-	-	-
CS*021M2	ERC-0200	30°F	-	-	-	-
CS*021M2	ERC-0200	25°F	18,350	17,640	16,930	15,520
CS*021M2	ERC-0200	20°F	16,650	16,010	15,370	14,090
CS*021M2	ERC-0200	10°F	13,520	13,000	12,480	11,440
CS*021M2	ERC-0200	0°F	10,850	10,430	10,010	9,180
CS*029M2	ERF-0310	40°F	-	-	-	-
CS*029M2	ERF-0310	30°F	-	-	-	-
CS*029M2	ERF-0310	25°F	25,570	24,720	23,850	22,150
CS*029M2	ERF-0310	20°F	23,190	22,400	21,610	20,040
CS*029M2	ERF-0310	10°F	18,860	18,200	17,530	16,210
CS*029M2	ERF-0310	0°F	15,330	14,760	14,200	13,080
CS*030H2	ERF-0310	40°F	37,070	35,640	34,210	31,370
CS*030H2	ERF-0310	30°F	30,820	29,630	28,450	26,070
CS*030H2	ERF-0310	25°F	27,870	26,800	25,720	23,580
CS*030H2	ERF-0310	20°F	25,100	24,130	23,160	21,240
CS*030H2	ERF-0310	10°F	20,160	19,380	18,600	17,050
CS*030H2	ERF-0310	0°F	-	-	-	-

Air-Cooled Condensing Units



1/2 - 6 HP Horizontal Air Discharge

Unit Specifications

Models with Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

† = RS Compressor not suitable for R-507

Climate Control Base Model	Compressor	Connections (in.)		Receiver 90% Full (lbs.)	Fan(s)	Cabinet	Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA
		Liquid ID	Suction ID				Depth (in.)	Width (in.)	Height (in.)		
High Temperature (R-404A/507)											
CH*005H6	RST45C1E	3/8	1/2	5.5	1	A	28-1/4	23-3/4	17-1/4	135	68
CH*009H6	RST64C1E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	144	68
CH*010H6	RS70C1E†	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	138	68
CH*015H6	CS10K6E	3/8	5/8	9.0	2	B	28-1/4	37-3/4	17-1/4	193	71
CH*025H6	CS14K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	208	74
CH*032H6	CS20K6E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	275	76
CH*040H6	CS27K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	281	73
CH*050H6	CS33K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	313	73
Extended Temperature (R-404A/507)											
CH*005X6	RST45C1E	3/8	1/2	5.5	1	A	28-1/4	23-3/4	17-1/4	135	68
CH*008X6	RST55C1E	3/8	1/2	5.5	1	A	28-1/4	23-3/4	17-1/4	135	68
CH*009X6	RST64C1E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	144	68
CH*010X6	RS70C1E†	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	138	68
CH*015X6	CS10K6E	3/8	5/8	9.0	2	B	28-1/4	37-3/4	17-1/4	193	71
CH*020X6	CS12K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	203	73
CH*025X6	CS14K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	208	74
CH*030X6	CS18K6E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	290	73
CH*032X6	CS20K6E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	275	76
CH*040X6	CS27K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	281	73
CH*050X6	CS33K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	313	73
Low Temperature (R-404A/507)											
CH*011L6	CF04K6E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	139	73
CH*014L6	CF06K6E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	170	73
CH*019L6	CF06K6E	3/8	5/8	9.0	2	B	28-1/4	37-3/4	17-1/4	200	69
CH*025L6	CF09K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	222	76
CH*031L6	CF12K6E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	223	77
Medium & High Temperature (R-22)											
CH*005H2	RST41C1	3/8	1/2	6.0	1	A	28-1/4	23-3/4	17-1/4	135	67
CH*010H2	RST70C1	3/8	5/8	6.0	1	A	28-1/4	23-3/4	17-1/4	136	68
CH*015X6	CS10K6E	3/8	5/8	9.0	2	B	28-1/4	37-3/4	17-1/4	193	71
CH*020X6	CS12K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	203	73
CH*025X6	CS14K6E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	208	74
CH*030X6	CS18K6E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	290	73
CH*032X6	CS20K6E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	275	76
CH*040X6	CS27K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	281	73
CH*050X6	CS33K6E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	313	73

Notes:

Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

1/2 - 6 HP Horizontal Air Discharge

Unit Specifications

Models with Scroll Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Connections (in.)		Receiver 90% Full (lbs.)	Fan(s)	Cabinet	Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA
		Liquid ID	Suction ID				Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
CZ*020M6	ZS15K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	209	71
CZ*025M6	ZS19K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	218	73
CZ*030M6	ZS21K4E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	287	72
CZ*035M6	ZS26K4E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	290	74
CZ*045M6	ZS30K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	317	73
CZ*055M6	ZS38K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	317	74
CZ*060M6	ZS45K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	317	76
Low Temperature (R-404A/507)											
CZ*020L6	ZF06K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	209	71
CZ*025L6	ZF08K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	218	73
CZ*030L6	ZF09K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	218	71
CZ*035L6	ZF11K4E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	217	73
CZ*045L6	ZF13K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	307	73
CZ*055L6	ZF15K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	313	74
CZ*060L6	ZF18K4E	1/2	1-1/8	20.0	1	D	30-1/4	42-1/2	29-3/4	317	76

Notes:

Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

Air-Cooled Condensing Units



1/2 - 6 HP Horizontal Air Discharge

Unit Specifications

Models with Semi-Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Connections (in.)		Receiver 90% Full (lbs.)	Fan(s)	Cabinet	Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA
		Liquid ID	Suction ID				Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
CS*010M6	KAR-010E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	178	67
CS*020M6	KAK-020E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	189	69
CS*021M6	ERC-021E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	301	70
CS*030M6	ERF-031E	1/2	7/8	20.0	1	D	30-1/4	42-1/2	29-3/4	397	71
Low Temperature (R-404A/507)											
CS*005L6	KAN-005E	3/8	1/2	5.5	1	A	28-1/4	23-3/4	17-1/4	172	67
CS*008L6	KAM-007E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	172	67
CS*010L6	KAJ-010E	3/8	5/8	5.5	1	A	28-1/4	23-3/4	17-1/4	178	67
CS*015L6	KAL-015E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	225	69
CS*020L6	EAD-020E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	291	70
CS*021L6	EAV-021E	3/8	7/8	9.0	2	B	28-1/4	37-3/4	17-1/4	301	70
CS*030L6	LAH-032E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	357	71
CS*030E6	LAC-032E	1/2	7/8	14.0	2	C	28-1/4	37-3/4	19-1/4	391	71
Medium & High Temperature (R-22)											
CS*008H2	KAN-0075	3/8	5/8	6.0	1	A	28-1/4	23-3/4	17-1/4	180	66
CS*008M2	KAE-0075	3/8	5/8	6.0	1	A	28-1/4	23-3/4	17-1/4	180	66
CS*010H2	KAR-0100	3/8	5/8	6.0	1	A	28-1/4	23-3/4	17-1/4	175	66
CS*010M2	KAM-0100	3/8	5/8	6.0	1	A	28-1/4	23-3/4	17-1/4	178	66
CS*015H2	KAG-0150	3/8	7/8	10.0	2	B	28-1/4	37-3/4	17-1/4	221	69
CS*020H2	ERA-0200	3/8	7/8	10.0	2	B	28-1/4	37-3/4	17-1/4	293	69
CS*020M2	KAK-0200	3/8	7/8	10.0	2	B	28-1/4	37-3/4	17-1/4	189	69
CS*021M2	ERC-0200	3/8	7/8	10.0	2	B	28-1/4	37-3/4	17-1/4	301	69
CS*029M2	ERF-0310	1/2	7/8	16.0	2	C	28-1/4	37-3/4	19-1/4	391	69
CS*030H2	ERF-0310	1/2	7/8	22.0	1	D	30-1/4	42-1/2	29-3/4	385	70

Notes:

Estimated sound pressure values are 10 feet from the unit. For estimating sound pressure from the unit at different distances, deduct the following from the unit values: 20 feet, deduct 6 dBA for 40 feet, deduct 12 dBA for 80 feet, deduct 18 dBA. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise and mounting conditions may have a significant influence on this data.

½ - 6 HP Horizontal Air Discharge

Electrical Data

Models with Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
High Temperature (R-404A/507)													
CH*005H6B	RST45C1E-CAV	208-230/1/60	4.5	26.5	1	1/15	0.5	15.0	15	-	-	-	-
CH*009H6B	RST64C1E-CAV	208-230/1/60	7.6	43.0	1	1/15	0.5	15.0	15	-	-	-	-
CH*010H6B	RS70C1E-PFV	208-230/1/60	6.9	34.2	1	1/15	0.5	15.0	15	-	-	-	-
CH*010H6C	RS70C1E-TFC	208-230/3/60	4.7	31.0	1	1/15	0.5	15.0	15	-	-	-	-
CH*015H6B	CS10K6E-PFV	208-230/1/60	11.1	56.0	2	1/15	1.0	15.0	25	-	-	-	-
CH*015H6C	CS10K6E-TF5	208-230/3/60	7.2	51.0	2	1/15	1.0	15.0	15	-	-	-	-
CH*025H6B	CS14K6E-PFV	208-230/1/60	12.4	61.0	2	1/15	1.0	20.0	25	-	-	-	-
CH*025H6C	CS14K6E-TF5	208-230/3/60	8.5	55.0	2	1/15	1.0	15.0	20	-	-	-	-
CH*032H6B	CS20K6E-PFV	208-230/1/60	17.9	96.0	1	1/3	3.5	25.9	40	-	-	-	-
CH*032H6C	CS20K6E-TF5	208-230/3/60	13.3	75.0	1	1/3	3.5	20.2	30	-	-	-	-
CH*040H6K	CS27K6E-TF5	230/3/60	14.1	105.0	1	1/3	3.5	21.1	35	-	-	-	-
CH*050H6K	CS33K6E-TF5	230/3/60	16.5	102.0	1	1/3	3.5	24.2	40	-	-	-	-
Extended Temperature (R-404A/507)													
CH*005X6B	RST45C1E-CAV	208-230/1/60	4.6	26.5	1	1/15	0.5	15.0	15	20.0	20	8	15
CH*008X6B	RST55C1E-CAV	208-230/1/60	6.1	33.7	1	1/15	0.5	15.0	15	20.0	20	8	15
CH*009X6B	RST64C1E-CAV	208-230/1/60	8.0	43.0	1	1/15	0.5	15.0	15	20.0	20	6	15
CH*010X6B	RS70C1E-PFV	208-230/1/60	6.3	34.2	1	1/15	0.5	15.0	15	20.0	20	7	15
CH*010X6C	RS70C1E-TFC	208-230/3/60	4.2	31.0	1	1/15	0.5	15.0	15	20.0	20	8.6	15
CH*015X6B	CS10K6E-PFV	208-230/1/60	9.8	56.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CH*015X6C	CS10K6E-TF5	208-230/3/60	6.7	51.0	2	1/15	1.0	15.0	15	20.0	20	7	15
CH*020X6B	CS12K6E-PFV	208-230/1/60	9.8	56.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CH*020X6C	CS12K6E-TF5	208-230/3/60	6.7	51.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CH*025X6B	CS14K6E-PFV	208-230/1/60	11.2	61.0	2	1/15	1.0	15.0	25	29.0	30	6	23
CH*025X6C	CS14K6E-TF5	208-230/3/60	8.2	55.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CH*025X6D	CS14K6E-TFD	460/3/60	4.2	28.0	2	1/15	1.0	15.0	15	20.0	20	^	^
CH*030X6B	CS18K6E-PFV	208-230/1/60	14.4	82.0	1	1/3	3.5	21.0	35	38.0	45	12	30
CH*030X6C	CS18K6E-TF5	208-230/3/60	9.4	65.5	1	1/3	3.5	15.0	20	29.0	30	7	23
CH*030X6D	CS18K6E-TFD	460/3/60	3.9	33.0	1	1/3	1.9	15.0	15	24.0	25	^	^
CH*032X6B	CS20K6E-PFV	208-230/1/60	16.7	96.0	1	1/3	3.5	24.0	40	38.0	50	12	30
CH*032X6C	CS20K6E-TF5	208-230/3/60	10.3	75.0	1	1/3	3.5	20.0	25	29.0	30	7	23
CH*032X6D	CS20K6E-TFD	460/3/60	4.6	40.0	1	1/3	1.9	15.0	15	24.0	25	^	^
CH*040X6B	CS27K6E-PFV	208-230/1/60	21.5	121.0	1	1/3	3.5	30.3	50	44.0	60	12	35
CH*040X6C	CS27K6E-TF5	208-230/3/60	13.7	105.0	1	1/3	3.5	20.7	30	38.0	45	12	30
CH*040X6D	CS27K6E-TFD	460/3/60	7.6	52.0	1	1/3	1.9	15.0	15	29.0	30	11	23
CH*050X6B	CS33K6E-PFV	208-230/1/60	27.6	125.0	1	1/3	3.5	38.0	50	59.0	60	12	47
CH*050X6C	CS33K6E-TF5	208-230/3/60	16.8	102.0	1	1/3	3.5	24.5	40	38.0	50	12	30
CH*050X6D	CS33K6E-TFD	460/3/60	8.8	48.0	1	1/3	1.9	15.0	20	29.0	30	10	23

Notes:

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ = 230/1/60 Defrost Power Supplied by Customer (Outdoor & Indoor configurable models only). Customer supplied defrost power amps cannot exceed the electric defrost timer amp rating of 30A.

Air-Cooled Condensing Units



1/2 - 6 HP Horizontal Air Discharge

Electrical Data

Models with Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Low Temperature(R-404A/507)													
CH*011L6B	CF04K6E-PFV	208-230/1/60	8.6	59.2	1	1/15	0.5	15.0	15	20.0	25	7	15
CH*011L6C	CF04K6E-TF5	208-230/3/60	3.9	52.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CH*014L6B	CF06K6E-PFV	208-230/1/60	10.3	59.2	1	1/15	0.5	15.0	20	20.0	25	4	15
CH*014L6C	CF06K6E-TF5	208-230/3/60	6.3	52.0	1	1/15	0.5	15.0	15	24.0	25	9	19
CH*019L6B	CF06K6E-PFV	208-230/1/60	10.3	59.2	2	1/15	1.0	15.0	20	24.0	30	6	19
CH*019L6C	CF06K6E-TF5	208-230/3/60	6.3	52.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CH*025L6B	CF09K6E-PFV	208-230/1/60	15.0	87.0	2	1/15	1.0	20.0	30	29.0	40	6	23
CH*025L6C	CF09K6E-TF5	208-230/3/60	9.2	72.2	2	1/15	1.0	15.0	20	21.0	25	7	15
CH*031L6B	CF12K6E-PFV	208-230/1/60	17.0	105.0	2	1/15	1.0	22.3	35	37.5	50	12	30
CH*031L6C	CF12K6E-TF5	208-230/3/60	10.7	85.0	2	1/15	1.0	15.0	25	28.8	30	7	23
CH*031L6D	CF12K6E-TFD	460/3/60	5.3	42.0	2	1/15	1.0	15.0	15	23.8	25	^	^
High Temperature (R-22)													
CH*005H2B	RST41C1-CAV	208-230/1/60	5.9	30.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CH*010H2B	RST70C1-PFV	208-230/1/60	6.3	34.2	1	1/15	0.5	15.0	15	20.0	20	7	15
Medium Temperature (R-22)													
CH*015X6B	CS10K6E-PFV	208-230/1/60	9.8	56.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CH*015X6C	CS10K6E-TF5	208-230/3/60	6.7	51.0	2	1/15	1.0	15.0	15	20.0	20	7	15
CH*020X6B	CS12K6E-PFV	208-230/1/60	9.8	56.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CH*020X6C	CS12K6E-TF5	208-230/3/60	6.7	51.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CH*025X6B	CS14K6E-PFV	208-230/1/60	11.2	61.0	2	1/15	1.0	15.0	25	29.0	30	6	23
CH*025X6C	CS14K6E-TF5	208-230/3/60	8.2	55.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CH*025X6D	CS14K6E-TFD	460/3/60	4.2	28.0	2	1/15	1.0	15.0	15	20.0	20	^	^
CH*030X6B	CS18K6E-PFV	208-230/1/60	14.4	82.0	1	1/3	3.5	21.0	35	38.0	45	12	30
CH*030X6C	CS18K6E-TF5	208-230/3/60	9.4	65.5	1	1/3	3.5	15.0	20	29.0	30	7	23
CH*030X6D	CS18K6E-TFD	460/3/60	3.9	33.0	1	1/3	1.9	15.0	15	24.0	25	^	^
CH*032X6B	CS20K6E-PFV	208-230/1/60	16.7	96.0	1	1/3	3.5	24.0	40	38.0	50	12	30
CH*032X6C	CS20K6E-TF5	208-230/3/60	10.3	75.0	1	1/3	3.5	20.0	25	29.0	30	7	23
CH*032X6D	CS20K6E-TFD	460/3/60	4.6	40.0	1	1/3	1.9	15.0	15	24.0	25	^	^
CH*040X6B	CS27K6E-PFV	208-230/1/60	21.5	121.0	1	1/3	3.5	30.3	50	44.0	60	12	35
CH*040X6C	CS27K6E-TF5	208-230/3/60	13.7	105.0	1	1/3	3.5	20.7	30	38.0	45	12	30
CH*040X6D	CS27K6E-TFD	460/3/60	7.6	52.0	1	1/3	1.9	15.0	15	29.0	30	11	23
CH*050X6B	CS33K6E-PFV	208-230/1/60	27.6	125.0	1	1/3	3.5	38.0	50	59.0	60	12	47
CH*050X6C	CS33K6E-TF5	208-230/3/60	16.8	102.0	1	1/3	3.5	24.5	40	38.0	50	12	30
CH*050X6D	CS33K6E-TFD	460/3/60	8.8	48.0	1	1/3	1.9	15.0	20	29.0	30	10	23

Notes:

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ = 230/1/60 Defrost Power Supplied by Customer (Outdoor & Indoor configurable models only). Customer supplied defrost power amps cannot exceed the electric defrost timer amp rating of 30A.

1/2 - 6 HP Horizontal Air Discharge

Electrical Data

Models with Scroll Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)													
CZ*020M6B	ZS15K4E-PFV	208-230/1/60	14.1	68.0	2	1/15	1.0	20.0	30	38.0	40	12	30
CZ*020M6C	ZS15K4E-TF5	208-230/3/60	9.6	58.0	2	1/15	1.0	15.0	20	24.0	30	9	19
CZ*020M6D	ZS15K4E-TFD	460/3/60	4.8	29.0	2	1/15	1.0	15.0	15	15.0	15	^	^
CZ*025M6B	ZS19K4E-PFV	208-230/1/60	16.2	75.0	2	1/15	1.0	21	35	38.0	45	12	30
CZ*025M6C	ZS19K4E-TF5	208-230/3/60	12.3	73.0	2	1/15	1.0	20	25	29.0	35	11	23
CZ*025M6D	ZS19K4E-TFD	460/3/60	5.8	38.0	2	1/15	1.0	15.0	15	15.0	15	^	^
CZ*030M6B	ZS21K4E-PFV	208-230/1/60	20.8	112.0	1	1/3	3.5	30	50	42.0	60	12	30
CZ*030M6C	ZS21K4E-TF5	208-230/3/60	13.7	93.0	1	1/3	3.5	21	30	38.0	45	12	30
CZ*030M6D	ZS21K4E-TFD	460/3/60	6.2	48.0	1	1/3	1.9	15.0	15	15.0	15	^	^
CZ*035M6B	ZS26K4E-PFV	208-230/1/60	21.2	104.0	1	1/3	3.5	30	50	42.0	60	12	30
CZ*035M6C	ZS26K4E-TF5	208-230/3/60	13.9	93.0	1	1/3	3.5	21	30	38.0	45	12	30
CZ*035M6D	ZS26K4E-TFD	460/3/60	6.2	48.0	1	1/3	1.9	15.0	15	15.0	15	^	^
CZ*045M6B	ZS30K4E-PFV	208-230/1/60	23.4	137.0	1	1/3	3.5	33	50	59.0	60	11	47
CZ*045M6C	ZS30K4E-TF5	208-230/3/60	18.4	114.0	1	1/3	3.5	27	40	44.0	50	12	35
CZ*045M6D	ZS30K4E-TFD	460/3/60	8.4	58.0	1	1/3	1.9	15.0	20	29.0	35	11	23
CZ*055M6B	ZS38K4E-PFV	208-230/1/60	28.8	169.0	1	1/3	3.5	40.0	50	59.0	60	12	47
CZ*055M6C	ZS38K4E-TF5	208-230/3/60	19.2	123.0	1	1/3	3.5	28.0	45	44.0	50	12	35
CZ*055M6D	ZS38K4E-TFD	460/3/60	8.7	62.0	1	1/3	1.9	15.0	20	29.0	30	10	23
CZ*060M6C	ZS45K4E-TF5	208-230/3/60	21.5	156.0	1	1/3	3.5	30.0	50	44.0	60	12	35
CZ*060M6D	ZS45K4E-TFD	460/3/60	8.3	70.0	1	1/3	1.9	15.0	20	29.0	30	10.6	23
Low Temperature (R-404A/507)													
CZ*020L6B	ZF06K4E-PFV	208-230/1/60	12.2	61.0	2	1/15	1.0	20.0	25	38.0	40	12	30
CZ*020L6C	ZF06K4E-TF5	208-230/3/60	8.3	55.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CZ*020L6D	ZF06K4E-TFD	460/3/60	3.8	27.0	2	1/15	1.0	15.0	15	24.0	25	^	^
CZ*025L6B	ZF08K4E-PFV	208-230/1/60	14.7	73.0	2	1/15	1.0	20.0	30	38.0	45	12	30
CZ*025L6C	ZF08K4E-TF5	208-230/3/60	8.7	63.0	2	1/15	1.0	15.0	20	29.0	30	11	23
CZ*025L6D	ZF08K4E-TFD	460/3/60	4.5	31.0	2	1/15	1.0	15.0	15	24.0	25	^	^
CZ*030L6B	ZF09K4E-PFV	208-230/1/60	14.7	88.0	2	1/15	1.0	20.0	30	38.0	45	12	30
CZ*030L6C	ZF09K4E-TF5	208-230/3/60	9.9	77.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CZ*030L6D	ZF09K4E-TFD	460/3/60	5.1	39.0	2	1/15	1.0	15.0	15	15.0	15	^	^
CZ*035L6B	ZF11K4E-PFV	208-230/1/60	18.6	109.0	2	1/15	1.0	24.0	40	38.0	50	12	30
CZ*035L6C	ZF11K4E-TF5	208-230/3/60	12.2	88.0	2	1/15	1.0	20.0	25	29.0	30	6	23
CZ*035L6D	ZF11K4E-TFD	460/3/60	6.4	44.0	2	1/15	1.0	15.0	15	15.0	15	^	^
CZ*045L6B	ZF13K4E-PFV	208-230/1/60	24.0	129.0	1	1/3	3.5	34.0	50	45.0	60	11	30
CZ*045L6C	ZF13K4E-TF5	208-230/3/60	13.5	99.0	1	1/3	3.5	20.0	30	38.0	40	11	30
CZ*045L6D	ZF13K4E-TFD	460/3/60	7.4	49.5	1	1/3	1.9	15.0	15	24.0	25	9	19
CZ*055L6B	ZF15K4E-PFV	208-230/1/60	28.8	169.0	1	1/3	3.5	40.0	50	50.0	60	10	30
CZ*055L6C	ZF15K4E-TF5	208-230/3/60	19.2	123.0	1	1/3	3.5	28.0	45	40.0	50	10	30
CZ*055L6D	ZF15K4E-TFD	460/3/60	8.7	62.0	1	1/3	1.9	15.0	20	24.0	25	8	19
CZ*060L6C	ZF18K4E-TF5	208-230/3/60	21.5	156.0	1	1/3	3.5	30.0	50	44.0	60	12	35
CZ*060L6D	ZF18K4E-TFD	460/3/60	8.3	70.0	1	1/3	1.9	15.0	20	29.0	30	11	23

Notes:

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ = 230/1/60 Defrost Power Supplied by Customer (Outdoor & Indoor configurable models only). Customer supplied defrost power amps cannot exceed the electric defrost timer amp rating of 30A.

Air-Cooled Condensing Units



1/2 - 6 HP Horizontal Air Discharge

Electrical Data

Models with Semi-Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)													
CS*010M6B	KARB-010E-CAV	208-230/1/60	6.4	40.0	1	1/15	0.5	15.0	15	20.0	20	7	15
CS*010M6C	KARA-010E-TAC	208-230/3/60	3.8	27.0	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*020M6B	KAKB-021E-CAV	208-230/1/60	9.1	55.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CS*020M6C	KAKA-020E-TAC	208-230/3/60	5.8	50.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CS*021M6C	ERCA-021E-TAC	208-230/3/60	7.9	46.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CS*021M6D	ERCA-020E-TAD	460/3/60	3.1	23.0	2	1/15	1.0	15.0	15	20.0	20	^	^
CS*030M6C	ERFA-031E-TAC	208-230/3/60	11.2	82.0	1	1/3	3.5	20.0	25	38.0	40	12	30
CS*030M6D	ERFA-031E-TAD	460/3/60	5.2	41.0	1	1/3	1.9	15.0	15	24.0	25	^	^
Low Temperature (R-404A/507)													
CS*005L6B	KANB-005E-CAV	208-230/1/60	3.1	24.0	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*005L6C	KANA-006E-TAC	208-230/3/60	2.0	13.2	1	1/15	0.5	15.0	15	20.0	20	9.6	15
CS*008L6B	KAMB-007E-CAV	208-230/1/60	5.1	36.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CS*008L6C	KAMA-007E-TAC	208-230/3/60	2.9	19.9	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*010L6B	KAJB-010E-CAV	208-230/1/60	6.2	40.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CS*010L6C	KAJA-011E-TAC	208-230/3/60	4.1	27.0	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*015L6B	KALB-015E-CAV	208-230/1/60	8.9	55.0	2	1/15	1.0	15.0	20	24.0	25	8	19
CS*015L6C	KALA-016E-TAC	208-230/3/60	6.0	50.0	2	1/15	1.0	15.0	15	20.0	20	7.6	15
CS*015L6D	KALA-016E-TAD	460/3/60	3.1	25.0	2	1/15	1.0	15.0	15	20.0	20	9	15
CS*020L6C	EADA-020E-TAC	208-230/3/60	6.1	46.0	2	1/15	1.0	15.0	15	20.0	20	7	15
CS*021L6B	EAVB-021E-CAV	208-230/1/60	13.2	102.0	2	1/15	1.0	20.0	30	29.0	30	4	23
CS*021L6C	EAVA-021E-TAC	208-230/3/60	6.6	50.0	2	1/15	1.0	15.0	15	20.0	20	7	15
CS*021L6D	EAVA-021E-TAD	460/3/60	2.9	26.6	2	1/15	1.0	15.0	15	20.0	20	9	15
CS*030L6C	LAHA-032E-TAC	208-230/3/60	11.5	112.0	2	1/15	1.0	20.0	25	29.0	35	12	23
CS*030L6D	LAHA-032E-TAD	460/3/60	5.4	56.0	2	1/15	1.0	15.0	15	15.0	15	^	^
Extra Low Temperature (R-404A/507)													
CS*030E6C	LACA-032E-TAC	208-230/3/60	11.5	112.0	2	1/15	1.0	15.0	25	29.0	35	12	23
CS*030E6D	LACA-032E-TAD	460/3/60	5.4	56.0	2	1/15	1.0	15.0	15	15.0	15	^	^
High Temperature (R-22)													
CS*008H2B	KAN2-0075-CAV	208-230/1/60	5.4	36.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CS*008H2C	KAN1-0075-TAC	208-230/3/60	3.1	19.9	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*010H2B	KAR2-0100-CAV	208-230/1/60	6.6	40.0	1	1/15	0.5	15.0	15	20.0	20	7	15
CS*010H2C	KAR1-0100-TAC	208-230/3/60	3.8	27.0	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*015H2B	KAGB-0150-CAV	208-230/1/60	8.6	55.0	2	1/15	1.0	15.0	20	24.0	25	9	19
CS*015H2C	KAGA-0150-TAC	208-230/3/60	4.9	35.5	2	1/15	1.0	15.0	15	20.0	20	8	15
CS*015H2D	KAGA-0150-TAD	460/3/60	2.2	18.2	2	1/15	1.0	15.0	15	20.0	20	^	^
CS*020H2C	ERA1-0200-TAC	208-230/3/60	5.9	46.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CS*020H2D	ERA1-0200-TAD	460/3/60	3.1	46.0	2	1/15	1.0	15.0	15	20.0	20	^	^
CS*030H2C	ERF1-0311-TAC	208-230/3/60	11.2	82.0	1	1/3	3.5	20.0	25	38.0	40	12	30
CS*030H2D	ERF1-0311-TAD	460/3/60	5.2	41.0	1	1/3	1.9	15.0	15	24.0	25	^	^

Notes:

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ = 230/1/60 Defrost Power Supplied by Customer (Outdoor & Indoor configurable models only). Customer supplied defrost power amps cannot exceed the electric defrost timer amp rating of 30A.

1/2 - 6 HP Horizontal Air Discharge

Electrical Data

Models with Semi-Hermetic Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost			
			RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-22)													
CS*008M2B	KAE2-0075-CAV	208-230/1/60	4.9	36.0	1	1/15	0.5	15.0	15	20.0	20	8	15
CS*008M2C	KAE1-0075-TAC	208-230/3/60	3.0	19.9	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*010M2B	KAM2-0100-CAV	208-230/1/60	6.7	40.0	1	1/15	0.5	15.0	15	20.0	20	7	15
CS*010M2C	KAM1-0100-TAC	208-230/3/60	4.0	27.0	1	1/15	0.5	15.0	15	20.0	20	9	15
CS*020M2B	KAKB-0200-CAV	208-230/1/60	9.5	55.0	2	1/15	1.0	15.0	20	24.0	25	6	19
CS*020M2C	KAKA-0200-TAC	208-230/3/60	6.1	50.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CS*021M2C	ERC1-0200-TAC	208-230/3/60	6.1	46.0	2	1/15	1.0	15.0	15	24.0	25	9	19
CS*021M2D	ERC1-0200-TAD	460/3/60	3.3	23.0	2	1/15	1.0	15.0	15	20.0	20	^	^
CS*029M2C	ERF1-0311-TAC	208-230/3/60	11.2	82.0	2	1/15	1.0	15.0	25	29.0	35	12	23
CS*029M2D	ERF1-0311-TAD	460/3/60	5.2	41.0	2	1/15	1.0	15.0	15	15.0	25	^	^

Notes:

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

^ = 230/1/60 Defrost Power Supplied by Customer (Outdoor & Indoor configurable models only). Customer supplied defrost power amps cannot exceed the electric defrost timer amp rating of 30A.

3 - 22 HP Horizontal Air Discharge

Overview



Product Description:

The 3-22 HP condensing units feature an enhanced grill design that gives up to 40% more free-air area than prior models and its vertical receiver needs less refrigerant to ensure a full column of liquid reaches the expansion valve. Fan motors and serviceable components are accessible via 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 panel 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 jobsite placement. These condensing units utilize the Floating Tube™ coil design, which eliminates tube-sheet, allowing for a 5-year warranty against tube-sheet leaks. PSC motors come standard to help save you energy.

Opting for the Beacon II™ Refrigeration System with Smart Defrost, factory-installed Smart Defrost Kit™ (SDK), Variable Speed EC (VSEC) motor with Orbus™ Controller increases energy efficiency and qualifies this product for the **E Solutions™** product portfolio

Certifications



Nomenclature

C	D	T	0500		M	6	C
Model	Compressor	Application	Equiv. HP		Operating Range	Refrigerant	Voltage
C = Climate Control	D = Discus® Z = Scroll	T = Outdoor N = Indoor S = Beacon II™	0300 = 3HP	0751 = 7.5HP	L = Low M = Medium	2 = R-22 6 = R-404A/507	C = 208-230/3/60 (200-220/3/50)* D = 460/3/60 (380-420/3/50)*
			0400 = 4HP	0800 = 8 HP			
			0500 = 5HP	0860 = 8.5HP			
			0501 = 5HP	0900 = 9HP			
			0600 = 6HP	1000 = 10HP			
			0601 = 6HP	1200 = 12HP			
			0650 = 6.5HP	1300 = 13HP			
			0700 = 7HP	1401 = 14HP			
			0750 = 7.5HP	1500 = 15HP			
				2200 = 22HP			

* Limited by compressor model

Cabinet & Construction

- All units feature the Floating Tube™ coil design which eliminates tube sheet leaks
- Painted steel cabinet for superior strength and corrosion resistance

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access

Quality & Performance

- Sight Glass is easily viewable
- Fixed high pressure switch eliminates capillary tubes
- Refrigeration duty, rifled copper condenser tubing
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate braze joints where possible to reduce leak potential
- All joints are sweat type connections, no mechanical joints to leak
- Separate subcooling circuit in condenser for added capacity and vapor free liquid
- Pressure relief valve on receiver
- ServiceMate™ diagnostic module standard on all non-Beacon™ condensing units

Components

Compressor

- Discus compressors are spring mounted with suction and discharge eliminators
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves

Other

- Sight glass and permanent line filter

Motors

- Available with Variable Speed EC Motors

3 - 22 HP Horizontal Air Discharge

Performance Data

Models with Discus® Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

L6 models require the demand cooling option for R-22 operation.

Table with 7 columns: Climate Control Base Model, Compressor, Suction Temp. °F, Capacity (BTUH) at 90°F, 95°F, 100°F, 110°F. Section: Medium Temperature (R-404A/507). Rows include models like CD*0500M6 and CD*1500M6.

Table with 8 columns: Climate Control Base Model, Compressor, Suction Temp. °F, Capacity (BTUH) at 90°F, 95°F, 100°F, 110°F. Section: Low Temperature (R-404A/507). Rows include models like CD*0300L6 and CD*2200L6.

Section 2

3 - 22 HP Horizontal Air Discharge

Performance Data

Models with Scroll Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
Medium Temperature (R-404A/507)						
CZ*0650M6	ZB50KCE	40°F	73,560	70,350	67,150	-
CZ*0650M6	ZB50KCE	30°F	65,680	62,810	60,060	-
CZ*0650M6	ZB50KCE	25°F	60,810	58,130	55,940	50,660
CZ*0650M6	ZB50KCE	20°F	56,780	54,250	51,810	47,350
CZ*0650M6	ZB50KCE	10°F	47,320	45,470	43,280	38,940
CZ*0700M6	ZB58KCE	40°F	89,490	85,490	81,120	72,150
CZ*0700M6	ZB58KCE	30°F	78,520	74,920	71,190	63,775
CZ*0700M6	ZB58KCE	25°F	72,930	69,460	66,020	59,100
CZ*0700M6	ZB58KCE	20°F	67,220	63,990	60,830	54,390
CZ*0700M6	ZB58KCE	10°F	55,640	52,860	50,350	44,670
CZ*0750M6	ZB66KCE	40°F	101,820	97,640	93,460	84,560
CZ*0750M6	ZB66KCE	30°F	89,790	86,190	82,610	75,430
CZ*0750M6	ZB66KCE	25°F	83,570	80,250	76,960	70,410
CZ*0750M6	ZB66KCE	20°F	77,340	74,290	71,250	65,180
CZ*0750M6	ZB66KCE	10°F	65,010	62,450	59,880	55,210
CZ*0860M6	ZB76KCE	40°F	112,460	107,350	102,270	-
CZ*0860M6	ZB76KCE	30°F	100,510	96,150	91,950	83,330
CZ*0860M6	ZB76KCE	25°F	94,050	90,090	86,040	78,100
CZ*0860M6	ZB76KCE	20°F	87,480	83,760	80,050	73,030
CZ*0860M6	ZB76KCE	10°F	73,830	71,100	68,040	62,360
CZ*1000M6	ZB95K5E	40°F	146,785	139,621	132,326	-
CZ*1000M6	ZB95K5E	30°F	126,982	120,830	114,525	-
CZ*1000M6	ZB95K5E	25°F	117,938	11,750	105,904	-
CZ*1000M6	ZB95K5E	20°F	108,192	97,496	102,928	86,209
CZ*1000M6	ZB95K5E	10°F	90,685	81,380	86,028	71,487
CZ*1401M6	ZB114K5E	40°F	170,911	162,115	-	-
CZ*1401M6	ZB114K5E	30°F	148,517	140,924	133,168	-
CZ*1401M6	ZB114K5E	25°F	137,578	130,558	123,352	-
CZ*1401M6	ZB114K5E	20°F	126,877	120,381	113,690	-
CZ*1401M6	ZB114K5E	10°F	106,409	100,908	95,138	83,601
Low Temperature (R-404A/507)						
CZ*0750L6	ZF25K4E	0°F	43,092	41,362	39,574	35,480
CZ*0750L6	ZF25K4E	-10°F	35,633	34,282	32,404	30,116
CZ*0750L6	ZF25K4E	-20°F	28,982	27,940	26,413	24,870
CZ*0750L6	ZF25K4E	-30°F	23,192	22,454	21,732	20,342
CZ*0750L6	ZF25K4E	-40°F	18,304	17,839	17,403	16,613
CZ*1000L6	ZF34K5E	0°F	62,690	54,530	56,291	-
CZ*1000L6	ZF34K5E	-10°F	53,602	51,051	48,432	-
CZ*1000L6	ZF34K5E	-20°F	44,895	42,877	40,764	36,266
CZ*1000L6	ZF34K5E	-30°F	36,546	33,381	35,027	29,803
CZ*1000L6	ZF34K5E	-40°F	28,626	26,107	27,405	23,281
CZ*1300L6	ZF41K5E	0°F	70,770	67,816	64,717	58,348
CZ*1300L6	ZF41K5E	-10°F	59,051	56,658	54,174	49,008

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CZ*1300L6	ZF41K5E	-20°F	48,347	46,532	44,625	40,571
CZ*1300L6	ZF41K5E	-30°F	38,776	37,354	35,870	32,630
CZ*1300L6	ZF41K5E	-40°F	24,981	28,883	27,714	25,142
CZ*1500L6	ZF49K5E	0°F	82,982	79,294	75,512	67,483
CZ*1500L6	ZF49K5E	-10°F	69,300	66,334	63,285	56,842
CZ*1500L6	ZF49K5E	-20°F	56,732	54,438	52,040	46,827
CZ*1500L6	ZF49K5E	-30°F	45,452	41,766	43,664	37,696
CZ*1500L6	ZF49K5E	-40°F	35,523	32,643	34,126	29,424
Low Temperature (R-22)						
CZ*0750L2	ZF25K4E	0°F	43,092	41,362	39,574	35,980
CZ*0750L2	ZF25K4E	-10°F	35,633	34,288	32,404	30,116
CZ*0750L2	ZF25K4E	-20°F	28,982	27,940	26,913	24,870
CZ*0750L2	ZF25K4E	-25°F	25,952	25,071	24,199	22,490
CZ*0750L2	ZF25K4E	-30°F	23,192	22,454	21,732	20,342
CZ*1000L2	ZF34K5E	0°F	53,488	50,996	48,414	43,107
CZ*1000L2	ZF34K5E	-10°F	44,904	40,889	42,936	36,568
CZ*1000L2	ZF34K5E	-20°F	36,933	35,393	33,796	30,422
CZ*1000L2	ZF34K5E	-25°F	33,154	31,801	30,382	27,399
CZ*1000L2	ZF34K5E	-30°F	29,543	28,376	27,154	24,547
CZ*1300L2	ZF41K5E	0°F	70,770	67,816	64,717	58,348
CZ*1300L2	ZF41K5E	-10°F	54,051	56,658	54,174	49,008
CZ*1300L2	ZF41K5E	-20°F	48,347	46,532	44,625	40,511
CZ*1300L2	ZF41K5E	-25°F	43,437	41,840	40,140	36,505
CZ*1300L2	ZF41K5E	-30°F	38,776	37,354	35,870	32,630
CZ*1500L2	ZF49K5E	0°F	82,482	79,294	75,512	67,485
CZ*1500L2	ZF49K5E	-10°F	69,300	66,334	63,285	56,848
CZ*1500L2	ZF49K5E	-20°F	56,732	54,438	52,040	46,827
CZ*1500L2	ZF49K5E	-25°F	50,870	48,844	46,714	42,114
CZ*1500L2	ZF49K5E	-30°F	45,452	43,664	41,766	37,696

Air-Cooled Condensing Units



3 - 22 HP Horizontal Air Discharge

Unit Specifications

Models with Discus® Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Unit HP	Connections (in.)		Receiver 90% Full (lbs.)		Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA
			Liquid OD	Suction OD	Std	Opt	Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
CD*0500M6	2DC3R53KE	5.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	751	78
CD*0501M6	2DD3R63KE	5.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	751	78
CD*0750M6	2DL3R78KE	7.5	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	761	78
CD*0751M6	2DA3R89KE	7.5	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	985	82
CD*0800M6	3DA3R10ME	8.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	1,020	82
CD*1000M6	3DB3R12ME	10.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	1,045	82
CD*1200M6	3DF3R15ME	12.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	1,065	82
CD*1500M6	3DS3R17ME	15.0	7/8	1-5/8	87.0	98.0	41-3/4	75-1/8	48-3/4	1,182	81
Low Temperature (R-404A/507)											
CD*0300L6	2DF3F16KE	3.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	737	78
CD*0400L6	2DL3F20KE	4.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	741	78
CD*0600L6	2DB3F25KE	6.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	751	78
CD*0601L6	3DA3F28KE	6.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	781	81
CD*0750L6	3DB3F33KE	7.5	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	805	81
CD*0900L6	3DF3F40KE	9.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	1,030	82
CD*1000L6	3DS3F46KE	10.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	1,035	82
CD*1200L6	4DBNF54KE	12.0	7/8	1-5/8	67.0	87.0	41-3/4	75-1/8	48-3/4	1,199	82
CD*1500L6	4DLNF63KE	15.0	7/8	1-5/8	67.0	87.0	41-3/4	75-1/8	48-3/4	1,234	82
CD*2200L6	4DTNF76KE	22.0	7/8	1-5/8	87.0	98.0	41-3/4	75-1/8	48-3/4	1,224	82
Medium Temperature (R-22)											
CD*0500M6	2DC3R53KE	5.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	751	78
CD*0501M6	2DD3R63KE	5.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	751	78
CD*0750M6	2DL3R78KE	7.5	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	761	78
CD*0751M6	2DA3R89KE	7.5	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	985	82
CD*0800M6	3DA3R10ME	8.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	1,020	82
CD*1000M6	3DB3R12ME	10.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	1,045	82
CD*1200M6	3DF3R15ME	12.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	1,065	82
CD*1500M6	3DS3R17ME	15.0	7/8	1-5/8	96.0	113.0	41-3/4	75-1/8	48-3/4	1,182	81
Low Temperature (R-22)											
CD*0300L6	2DF3F16KE	3.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	737	78
CD*0400L6	2DL3F20KE	4.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	741	78
CD*0600L6	2DB3F25KE	6.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	751	78
CD*0601L6	3DA3F28KE	6.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	781	81
CD*0750L6	3DB3F33KE	7.5	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	805	81
CD*0900L6	3DF3F40KE	9.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	1,030	82
CD*1000L6	3DS3F46KE	10.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	1,035	82
CD*1200L6	4DBNF54KE	12.0	7/8	1-5/8	78.0	100.0	41-3/4	75-1/8	48-3/4	1,199	82
CD*1500L6	4DLNF63KE	15.0	7/8	1-5/8	78.0	100.0	41-3/4	75-1/8	48-3/4	1,234	82
CD*2200L6	4DTNF76KE	22.0	7/8	1-5/8	96.0	113.0	41-3/4	75-1/8	48-3/4	1,224	82

Notes:

Estimate sound pressure values are 5 feet from the unit. For estimating sound pressure from unit at different distances, deduct the following from the unit values: 10 feet deducts 6 dba, 20 feet deducts 12 dba, 40 feet deducts 18 dba. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise, and mounting conditions may have a significant influence on this data.

3 - 22 HP Horizontal Air Discharge

Unit Specifications

Models with Scroll Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Unit HP	Connections (in.)		Receiver 90% Full (lbs.)		Dimensions			Approx. Net Weight (lbs.)	Sound Data dBA
			Liquid OD	Suction OD	Std	Opt	Depth (in.)	Width (in.)	Height (in.)		
Medium Temperature (R-404A/507)											
CZ*0650M6	ZB50KCE	6.5	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	574	78
CZ*0700M6	ZB58KCE	7.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	800	80
CZ*0750M6	ZB66KCE	7.5	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	813	80
CZ*0860M6	ZB76KCE	8.5	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	818	80
CZ*1000M6	ZB95K5E	10.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	908	82
CZ*1401M6	ZB114K5E	14.0	7/8	1-5/8	67.0	78.0	41-3/4	75-1/8	48-3/4	1,235	82
Low Temperature(R-404A/507)											
CZ*0750L6	ZF25K4E	7.5	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	671	82
CZ*1000L6	ZF34K5E	10.0	1/2	1-1/8	28.0	52.0	36-3/4	51-3/4	39-1/4	671	82
CZ*1300L6	ZF41K5E	13.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	910	84
CD*1500L6	ZF49K5E	15.0	5/8	1-3/8	67.0	78.0	36-3/4	63-3/4	39-1/4	891	83
Low Temperature (R-22)											
CZ*0750L2	ZF25K4E	7.5	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	671	82
CZ*1000L2	ZF34K5E	10.0	1/2	1-1/8	33.0	60.0	36-3/4	51-3/4	39-1/4	671	82
CZ*1300L2	ZF41K5E	13.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	910	84
CZ*1500L2	ZF49K4E	15.0	5/8	1-3/8	78.0	90.0	36-3/4	63-3/4	39-1/4	891	83

Notes:

Estimate sound pressure values are 5 feet from the unit. For estimating sound pressure from unit at different distances, deduct the following from the unit values: 10 feet deducts 6 dba, 20 feet deducts 12 dba, 40 feet deducts 18 dba. This data is typical of "free field" conditions for horizontal air cooled condensing units at the outlet of the discharge air. The actual sound measurements may vary depending on the condensing unit installation. Factors such as reflecting walls, background noise, and mounting conditions may have a significant influence on this data.

Air-Cooled Condensing Units



3 - 22 HP Horizontal Air Discharge

Electrical Data

Models with Discus® Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)																
CD*0500M6C	208-230/3/60	20.0	12.0	1	1/3	2.7	27.7	45	-	-	-	-	50.0	60	15	40 (1)
CD*0500M6D	460/3/60	9.4	60.0	1	1/3	1.9	15.0	20	-	-	-	-	25.0	30	8	20 (1)
CD*0501M6C	208-230/3/60	20.0	12.0	1	1/3	2.7	27.7	45	-	-	-	-	50.0	60	15	40 (1)
CD*0501M6D	460/3/60	9.4	60.0	1	1/3	1.9	15.0	20	-	-	-	-	25.0	30	8	20 (1)
CD*0750M6C	208-230/3/60	28.3	169.0	1	1/3	2.7	38.1	60	-	-	-	-	60.0	80	20	48 (1)
CD*0750M6D	460/3/60	12.4	85.0	1	1/3	1.9	20.0	25	-	-	-	-	31.3	35	10	25 (1)
CD*0751M6C	208-230/3/60	28.7	169.0	2	1/3	5.4	41.3	70	-	-	-	-	61.3	90	20	48 (1)
CD*0751M6D	460/3/60	12.6	85.0	2	1/3	3.8	20.0	30	-	-	-	-	31.3	40	10	25 (1)
CD*0800M6C	208-230/3/60	36.8	215.0	2	1/3	5.4	51.4	80	-	-	-	-	87.5	100	20	70 (2)
CD*0800M6D	460/3/60	17.9	106.0	2	1/3	3.8	26.2	40	-	-	-	-	43.8	50	13	35 (1)
CD*1000M6C	208-230/3/60	39.1	215.0	2	1/3	5.4	54.3	90	-	-	-	-	87.5	110	20	70 (2)
CD*1000M6D	460/3/60	17.9	106.0	2	1/3	3.8	26.2	40	-	-	-	-	43.8	50	13	35 (1)
CD*1200M6C	208-230/3/60	43.2	275.0	2	1/3	5.4	59.4	100	-	-	-	-	87.5	110	20	70 (2)
CD*1200M6D	460/3/60	21.2	138.0	2	1/3	3.8	30.2	50	-	-	-	-	43.8	60	13	35 (1)
CD*1500M6C	208-230/3/60	53.5	275.0	2	3/4	8.8	75.7	125	90.7	125	15	70 (2)	100.0	125	20	80 (2)
CD*1500M6D	460/3/60	26.0	138.0	2	3/4	4.4	36.9	60	51.9	70	15	40 (1)	75.0	80	15	60 (2)
Low Temperature (R-404A/507)																
CD*0300L6C	208-230/3/60	14.0	102.0	1	1/3	2.7	20.6	35	-	-	-	-	50.0	50	15	40 (1)
CD*0300L6D	460/3/60	7.1	52.0	1	1/3	1.9	15.0	15	-	-	-	-	25.0	25	8	20 (1)
CD*0400L6C	208-230/3/60	2.3	161.0	1	1/3	2.7	32.2	50	-	-	-	-	60.0	70	15	48 (1)
CD*0400L6D	460/3/60	9.2	60.0	1	1/3	1.9	15.0	20	-	-	-	-	31.3	35	8	25 (1)
CD*0600L6C	208-230/3/60	25.3	161.0	1	1/3	2.7	34.4	50	-	-	-	-	75.0	80	20	60 (2)
CD*0600L6D	460/3/60	11.9	80.0	1	1/3	1.9	20.0	25	-	-	-	-	37.5	40	10	30 (1)
CD*0601L6C	208-230/3/60	24.0	150.0	1	1/3	2.7	32.7	50	-	-	-	-	75.0	80	20	60 (2)
CD*0601L6D	460/3/60	10.8	77.0	1	1/3	1.9	20.0	25	-	-	-	-	37.5	40	10	30 (1)
CD*0750L6C	208-230/3/60	27.6	161.0	1	1/3	2.7	37.2	60	-	-	-	-	75.0	80	20	60 (2)
CD*0750L6D	460/3/60	14.1	83.0	1	1/3	1.9	20.0	30	-	-	-	-	31.5	40	10	30 (1)
CD*0900L6C	208-230/3/60	33.2	215.0	2	1/3	5.4	46.9	80	-	-	-	-	87.5	100	20	70 (2)
CD*0900L6D	460/3/60	15.0	106.0	2	1/3	3.8	22.6	35	-	-	-	-	43.8	50	13	35 (1)
CD*1000L6C	208-230/3/60	37.2	215.0	2	1/3	5.4	51.9	80	-	-	-	-	87.5	100	20	70 (2)
CD*1000L6D	460/3/60	16.7	106.0	2	1/3	3.8	24.6	40	-	-	-	-	43.8	50	13	35 (1)
CD*1200L6C	208-230/3/60	46.0	220.0	2	3/4	8.8	66.3	110	74.9	110	15	40 (1)	87.5	110	20	70 (2)
CD*1200L6D	460/3/60	23.0	110.0	2	3/4	4.4	33.2	50	45.0	60	15	25 (1)	50.0	60	15	40 (1)
CD*1500L6C	208-230/3/60	47.2	278.0	2	3/4	8.8	67.8	110	82.8	125	15	48 (1)	92.8	125	25	70 (2)
CD*1500L6D	460/3/60	23.6	136.0	2	3/4	4.4	33.9	50	48.9	70	15	25 (1)	50.0	70	15	40 (1)
CD*2200L6C	208-230/3/60	57.7	374.0	2	3/4	8.8	80.9	125	95.9	150	15	48 (1)	105.9	150	25	70 (2)
CD*2200L6D	460/3/60	28.8	187.0	2	3/4	4.4	40.5	60	55.5	80	15	25 (1)	60.0	80	15	48 (1)

Notes:

Consult factory for 50 HZ applications.

Number of defrost heater contactors in parentheses.

Two fan large units have the ability for a reduced amp electric defrost kit (low amps). Confirm proper defrost kit prior to ordering or installing.

3 - 22 HP Horizontal Air Discharge

Electrical Data

Models with Discus® Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-22)																
CD*0500M6C	208-230/3/60	20.0	120.0	1	1/3	2.7	27.7	45	-	-	-	-	50.0	60	15	40 (1)
CD*0500M6D	460/3/60	9.4	60.0	1	1/3	1.9	15.0	20	-	-	-	-	25.0	30	8	20 (1)
CD*0501M6C	208-230/3/60	20.0	120.0	1	1/3	2.7	27.7	45	-	-	-	-	50.0	60	15	40 (1)
CD*0501M6D	460/3/60	9.4	60.0	1	1/3	1.9	15.0	20	-	-	-	-	25.0	30	8	20 (1)
CD*0750M6C	208-230/3/60	28.3	169.0	1	1/3	2.7	38.1	60	-	-	-	-	60.0	80	20	48 (1)
CD*0750M6D	460/3/60	12.4	85.0	1	1/3	1.9	20.0	25	-	-	-	-	31.3	35	10	25 (1)
CD*0751M6C	208-230/3/60	28.7	169.0	2	1/3	5.4	41.3	70	-	-	-	-	61.3	90	20	48 (1)
CD*0751M6D	460/3/60	12.6	85.0	2	1/3	3.8	20.0	30	-	-	-	-	31.3	40	10	25 (1)
CD*0800M6C	208-230/3/60	36.8	215.0	2	1/3	5.4	51.4	80	-	-	-	-	87.5	100	20	70 (2)
CD*0800M6D	460/3/60	17.9	106.0	2	1/3	3.8	26.2	40	-	-	-	-	43.8	50	13	35 (1)
CD*1000M6C	208-230/3/60	39.1	215.0	2	1/3	5.4	54.3	90	-	-	-	-	87.5	110	20	70 (2)
CD*1000M6D	460/3/60	17.9	106.0	2	1/3	3.8	26.2	40	-	-	-	-	43.8	50	13	35 (1)
CD*1200M6C	208-230/3/60	43.2	275.0	2	1/3	5.4	59.4	100	-	-	-	-	87.5	110	20	70 (2)
CD*1200M6D	460/3/60	21.2	138.0	2	1/3	3.8	30.2	50	-	-	-	-	43.8	60	13	35 (1)
CD*1500M6C	208-230/3/60	53.5	275.0	2	3/4	8.8	75.7	125	90.7	125	15	70 (2)	100.0	125	20	80 (2)
CD*1500M6D	460/3/60	26.0	138.0	2	3/4	4.4	36.9	60	51.9	70	15	40 (1)	75.0	80	15	60 (2)
Low Temperature (R-22)																
CD*0300L6C	208-230/3/60	14.4	102.0	1	1/3	2.7	20.6	35	-	-	-	-	50.0	50	15	40 (1)
CD*0300L6D	460/3/60	7.1	52.0	1	1/3	1.9	15.0	15	-	-	-	-	25.0	25	8	20 (1)
CD*0400L6C	208-230/3/60	23.6	161.0	1	1/3	2.7	32.2	50	-	-	-	-	60.0	70	15	48 (1)
CD*0400L6D	460/3/60	9.2	60.0	1	1/3	1.9	15.0	20	-	-	-	-	31.3	35	8	25 (1)
CD*0600L6C	208-230/3/60	25.3	161.0	1	1/3	2.7	34.4	50	-	-	-	-	75.0	80	20	60 (2)
CD*0600L6D	460/3/60	11.9	80.0	1	1/3	1.9	20.0	25	-	-	-	-	37.5	40	10	30 (1)
CD*0601L6C	208-230/3/60	24.0	150.0	1	1/3	2.7	32.7	50	-	-	-	-	75.0	80	20	60 (2)
CD*0601L6D	460/3/60	10.8	77.0	1	1/3	1.9	20.0	25	-	-	-	-	37.5	40	10	30 (1)
CD*0750L6C	208-230/3/60	27.6	161.0	1	1/3	2.7	37.2	60	-	-	-	-	75.0	80	20	60 (2)
CD*0750L6D	460/3/60	14.1	83.0	1	1/3	1.9	20.0	30	-	-	-	-	37.5	40	10	30 (1)
CD*0900L6C	208-230/3/60	33.2	215.0	2	1/3	5.4	46.9	80	-	-	-	-	87.5	100	20	70 (2)
CD*0900L6D	460/3/60	15.0	106.0	2	1/3	3.8	22.6	35	-	-	-	-	43.8	50	13	35 (1)
CD*1000L6C	208-230/3/60	37.2	215.0	2	1/3	5.4	51.9	80	-	-	-	-	87.5	100	20	70 (2)
CD*1000L6D	460/3/60	16.7	106.0	2	1/3	3.8	24.6	40	-	-	-	-	43.8	50	13	35 (1)
CD*1200L6C	208-230/3/60	46.0	220.0	2	3/4	8.8	66.3	110	74.9	110	15	40 (1)	87.5	110	20	70 (2)
CD*1200L6D	460/3/60	23.0	110.0	2	3/4	4.4	33.2	50	45.0	60	15	25 (1)	50.0	60	15	40 (1)
CD*1500L2C	208-230/3/60	47.2	278.0	2	3/4	8.8	67.8	110	82.8	125	15	48 (1)	15.0	125	25	70 (2)
CD*1500L2D	460/3/60	23.6	136.0	2	3/4	4.4	33.9	50	48.9	70	15	25 (1)	50.0	70	15	40 (1)
CD*2200L6C	208-230/3/60	57.7	374.0	2	3/4	8.8	80.9	125	95.9	150	15	48 (1)	105.9	150	25	70 (2)
CD*2200L6D	460/3/60	28.8	187.0	2	3/4	4.4	40.5	60	55.5	80	15	25 (1)	60.0	80	15	48 (1)

Notes:

Consult factory for 50 HZ applications.

Number of defrost heater contactors in parentheses.

Two fan large units have the ability for a reduced amp electric defrost kit (low amps). Confirm proper defrost kit prior to ordering or installing.

Air-Cooled Condensing Units



3 - 22 HP Horizontal Air Discharge

Electrical Data

Models with Scroll Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)																
CZ*0650M6C	208-230/3/60	25.6	196.0	1	1/3	2.7	34.8	60	-	-	-	-	50.0	70	15	40 (1)
CZ*0650M6D	460/3/60	13.5	100.0	1	1/3	1.9	20.0	30	-	-	-	-	26.7	40	8	20 (1)
CZ*0700M6C	208-230/3/60	27.6	195.0	2	1/3	5.4	39.9	60	-	-	-	-	60.0	80	20	48 (1)
CZ*0700M6D	460/3/60	14.7	95.0	2	1/3	3.8	22.2	35	-	-	-	-	32.2	45	10	25 (1)
CZ*0750M6C	208-230/3/60	26.9	225.0	2	1/3	5.4	39.1	60	-	-	-	-	60.0	80	20	48 (1)
CZ*0750M6D	460/3/60	15.7	114.0	2	1/3	3.8	23.4	35	-	-	-	-	33.4	45	10	25 (1)
CZ*0860M6C	208-230/3/60	37.2	239.0	2	1/3	5.4	51.9	80	-	-	-	-	87.5	100	20	70 (2)
CZ*0860M6D	460/3/60	17.9	125.0	2	1/3	3.8	26.2	40	-	-	-	-	43.8	50	13	35 (1)
CZ*1000M6C	208-230/3/60	52.9	248.0	2	1/3	5.4	71.5	110	-	-	-	-	91.5	125	20	70 (2)
CZ*1000M6D	460/3/60	25.0	150.0	2	1/3	3.8	35.1	60	-	-	-	-	48.1	70	13	35 (1)
CZ*1401M6C	208-230/3/60	63.0	321.0	2	3/4	8.8	87.6	150	102.6	150	15	70 (2)	107.6	150	20	80 (2)
CZ*1401M6D	460/3/60	27.1	179.0	2	3/4	4.4	38.3	60	53.3	80	15	40 (1)	75.0	80	15	60 (2)
Low Temperature (R-404A/507)																
CZ*0750L6C	208-230/3/60	26.7	224.0	1	1/3	2.7	36.1	60	-	-	-	-	75.0	80	20	60 (2)
CZ*0750L6D	460/3/60	16.9	49.0	1	1/3	1.9	20	25	-	-	-	-	37.5	40	10	30 (1)
CZ*1000L6C	208-230/3/60	37.1	239.0	1	1/3	2.7	49.1	80	-	-	-	-	75.0	100	20	60 (2)
CZ*1000L6D	460/3/60	17.9	100.0	1	1/3	1.9	24.3	40	-	-	-	-	37.5	50	10	30 (1)
CZ*1300L6C	208-230/3/60	42.1	248.0	2	1/3	5.4	58	100	-	-	-	-	87.5	110	20	70 (2)
CZ*1300L6D	460/3/60	19.3	125.0	2	1/3	3.8	27.9	45	-	-	-	-	43.8	60	13	35 (1)
CZ*1500L6C	208-230/3/60	50.6	338.7	2	1/3	5.4	68.7	110	-	-	-	-	88.7	125	20	70 (2)
CZ*1500L6D	460/3/60	20.2	139.0	2	1/3	3.8	29.1	45	-	-	-	-	43.8	60	13	35 (1)
Low Temperature (R-22)																
CZ*0750L2C	208-230/3/60	26.7	224.0	1	1/3	2.7	36.1	60	-	-	-	-	75.0	80	20	60 (2)
CZ*0750L2D	460/3/60	11.9	99.0	1	1/3	1.9	20	25	-	-	-	-	37.5	40	10	30 (1)
CZ*1000L2C	208-230/3/60	37.1	239.0	1	1/3	2.7	49.1	80	-	-	-	-	75.0	100	20	60 (2)
CZ*1000L2D	460/3/60	17.9	100.0	1	1/3	1.9	24.3	40	-	-	-	-	37.5	50	10	30 (1)
CZ*1300L2C	208-230/3/60	42.1	248.0	2	1/3	5.4	58	100	-	-	-	-	87.5	110	20	70 (2)
CZ*1300L2D	460/3/60	19.3	125.0	2	1/3	3.8	27.9	45	-	-	-	-	43.8	60	13	35 (1)
CZ*1500L2C	208-230/3/60	50.0	338.7	2	1/3	5.4	68.7	110	-	-	-	-	88.7	125	20	70 (2)
CZ*1500L2D	460/3/60	20.2	139.0	2	1/3	3.8	24.1	45	-	-	-	-	43.8	60	13	35 (1)

Notes:

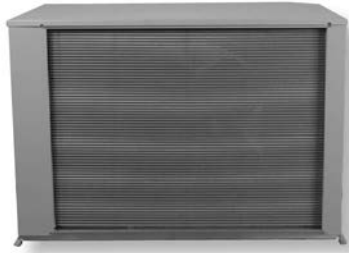
Consult factory for 50 HZ applications.

Number of defrost heater contactors in parentheses.

Two fan large units have the ability for a reduced amp electric defrost kit (low amps). Confirm proper defrost kit prior to ordering or installing.

4 - 13 HP Horizontal Air Discharge

Overview



Product Description:

The 4-13 HP condensing unit product line with Bitzer® compressors feature an enhanced grill design that gives up to 40% more free-air area than prior models and its vertical receiver needs less refrigerant to ensure a full column of liquid reaches the expansion valve. Fan motors and serviceable components are accessible via 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 jobsite placement. These condensing units utilize the Floating Tube™ design, which eliminates tube-sheet leaks, allowing a 5-year warranty against tube-sheet leaks. PSC motors come standard to help you save money

Opting for the Beacon II™ Refrigeration System with Smart Defrost, factory-installed Smart Defrost Kit™ (SDK), Variable Speed EC (VSEC) motor with Orbus™ Controller increases energy efficiency and qualifies this product for the **E Solutions™** product portfolio

Certifications



Cabinet & Construction

- All units feature the Floating Tube™ coil design, eliminating tube sheet leaks
- Painted steel cabinet for superior strength and corrosion resistance
- Enhanced grill design provides 25-40% increase in free-air area

Serviceability

- Manual pumpdown switch on all units
- Dual isolation valves on receiver
- Base valve and high/low pressure taps on outside of cabinet
- Removable grill for access to all serviceable parts
- Lighter, one-piece top is easily removed for improved serviceability

Quality

- Sight Glass is easily viewable
- Fixed high and adjustable low pressure switch
- Refrigeration duty, rifled copper condenser tubing
- Electrical box relocated outside of air stream (improved air flow)
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate braze joints where possible, to reduce leak potential

Components

Compressor

- Units feature Bitzer® semi-hermetic compressors.
- Available with compressor unloading

Other

- Crankcase heater and head pressure valve on all outdoor units
- Sight glass and permanent liquid line filter

Motors

- Available with Variable Speed EC Motors

Nomenclature

C	B	T	0601	L	6	C
Model	Compressor	Application	Equiv. HP	Operating Range	Refrigerant	Voltage
C = Climate Control	B = Bitzer	T = Outdoor N = Indoor S = Beacon II™	0401 = 4HP 0551 = 5HP 0601 = 6HP 0611 = 6HP 0751 = 7.5HP 0901 = 9HP 1001 = 10HP 1201 = 12HP 1301 = 13HP	L = Low M = Medium	6 = R-404A/507	C = 208-230/3/60 D = 460/3/60

Section 2

Air-Cooled Condensing Units



4 - 13 HP Horizontal Air Discharge

Performance Data

Models with Bitzer Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
Medium Temperature (R-404A/507)						
CB*0551M6	4C0969SH	40°F	89,700	85,620	81,720	74,280
CB*0551M6	4C0969SH	30°F	75,460	72,064	68,710	62,010
CB*0551M6	4C0969SH	25°F	68,740	65,580	62,440	56,230
CB*0551M6	4C0969SH	20°F	62,260	59,360	56,460	50,730
CB*0551M6	4C0969SH	15°F	56,190	53,510	50,870	45,720
CB*0551M6	4C0969SH	5°F	45,520	43,270	41,170	36,550
CB*0751M6	4C1145SH	40°F	105,280	100,690	95,530	86,960
CB*0751M6	4C1145SH	30°F	88,720	84,739	80,270	72,380
CB*0751M6	4C1145SH	25°F	80,750	76,660	72,960	65,640
CB*0751M6	4C1145SH	20°F	72,780	69,360	65,960	59,210
CB*0751M6	4C1145SH	15°F	65,640	62,500	59,380	53,160
CB*0751M6	4C1145SH	5°F	53,140	50,500	47,880	42,700
CB*0901M6	4C1385SH	40°F	129,090	124,130	118,700	107,220
CB*0901M6	4C1385SH	30°F	108,780	101,623	99,390	90,050
CB*0901M6	4C1385SH	25°F	99,120	94,750	90,440	81,730
CB*0901M6	4C1385SH	20°F	89,850	85,870	81,860	76,750
CB*0901M6	4C1385SH	15°F	81,200	77,500	73,800	66,340
CB*0901M6	4C1385SH	5°F	65,960	62,760	59,840	53,950
CB*1001M6	4C1480PH	40°F	137,470	131,010	125,080	113,750
CB*1001M6	4C1480PH	30°F	115,200	107,509	105,430	94,630
CB*1001M6	4C1480PH	25°F	104,860	100,040	95,260	85,740
CB*1001M6	4C1480PH	20°F	94,930	90,550	86,090	77,130
CB*1001M6	4C1480PH	15°F	85,670	81,560	77,450	69,510
CB*1001M6	4C1480PH	5°F	69,300	65,840	62,560	55,590
Low Temperature (R-404A/507)						
CB*0401L6	4C0969SL	0°F	35,200	33,380	31,560	28,020
CB*0401L6	4C0969SL	-10°F	27,690	26,222	24,690	21,680
CB*0401L6	4C0969SL	-15°F	24,440	23,040	21,620	18,870
CB*0401L6	4C0969SL	-20°F	21,520	20,210	18,930	16,460
CB*0401L6	4C0969SL	-30°F	17,090	16,000	14,930	12,820
CB*0401L6	4C0969SL	-40°F	15,030	14,090	13,200	11,330
CB*0551L6	4C1145SL	0°F	42,930	40,770	38,600	34,290
CB*0551L6	4C1145SL	-10°F	33,890	32,073	30,230	26,620
CB*0551L6	4C1145SL	-15°F	29,880	28,200	26,510	23,190
CB*0551L6	4C1145SL	-20°F	26,310	24,770	23,230	20,270
CB*0551L6	4C1145SL	-30°F	20,960	19,650	18,370	15,830
CB*0551L6	4C1145SL	-40°F	18,450	17,320	16,240	14,010
CB*0601L6	4C1385SL	0°F	52,890	50,250	47,530	42,230
CB*0601L6	4C1385SL	-10°F	41,590	39,334	37,070	32,610
CB*0601L6	4C1385SL	-15°F	36,690	34,580	32,480	28,460

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
CB*0601L6	4C1385SL	-20°F	32,320	30,410	28,510	24,810
CB*0601L6	4C1385SL	-30°F	25,910	24,260	22,630	19,540
CB*0601L6	4C1385SL	-40°F	22,910	21,500	20,090	17,370
CB*0611L6	4C1480PL	0°F	56,010	52,610	49,660	43,790
CB*0611L6	4C1480PL	-10°F	43,740	41,241	38,770	33,850
CB*0611L6	4C1480PL	-15°F	38,540	36,230	33,910	29,460
CB*0611L6	4C1480PL	-20°F	33,870	31,750	29,680	25,640
CB*0611L6	4C1480PL	-30°F	26,730	24,980	23,280	19,980
CB*0611L6	4C1480PL	-40°F	23,080	21,650	20,230	17,430
CB*0751L6	4C1761PL	0°F	68,040	64,570	61,090	54,180
CB*0751L6	4C1761PL	-10°F	53,710	50,780	47,800	41,660
CB*0751L6	4C1761PL	-15°F	47,320	44,580	41,840	36,480
CB*0751L6	4C1761PL	-20°F	41,590	39,080	36,600	31,870
CB*0751L6	4C1761PL	-30°F	32,760	30,720	28,700	24,750
CB*0751L6	4C1761PL	-40°F	28,200	26,530	24,910	21,590
CB*1001L6	4C2067PL	0°F	78,200	74,200	70,160	63,210
CB*1001L6	4C2067PL	-10°F	61,470	58,050	54,740	48,110
CB*1001L6	4C2067PL	-15°F	54,150	51,030	47,940	41,820
CB*1001L6	4C2067PL	-20°F	47,560	44,700	41,880	36,370
CB*1001L6	4C2067PL	-30°F	37,620	35,240	32,860	28,310
CB*1001L6	4C2067PL	-40°F	32,550	30,500	28,620	24,710
CB*1201L6	4C2397PL	0°F	93,390	88,580	83,830	74,420
CB*1201L6	4C2397PL	-10°F	74,920	69,208	65,150	57,070
CB*1201L6	4C2397PL	-15°F	64,440	60,680	56,890	49,580
CB*1201L6	4C2397PL	-20°F	56,560	53,090	49,680	43,080
CB*1201L6	4C2397PL	-30°F	44,620	41,750	38,850	33,170
CB*1201L6	4C2397PL	-40°F	38,400	36,060	33,630	28,760
CB*1301L6	4B2707PL	0°F	105,360	100,530	95,590	85,790
CB*1301L6	4B2707PL	-10°F	83,410	79,221	75,110	66,870
CB*1301L6	4B2707PL	-15°F	73,740	69,890	66,030	58,590
CB*1301L6	4B2707PL	-20°F	65,040	61,530	58,040	51,230
CB*1301L6	4B2707PL	-30°F	51,830	48,880	45,950	40,350
CB*1301L6	4B2707PL	-40°F	45,050	42,600	40,250	35,390

4 - 13 HP Horizontal Air Discharge

Unit Specifications

Models with Bitzer Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Climate Control Base Model	Compressor	Unit HP	Connections (in.)		Receiver 90% Full (lbs.)		Dimensions			Approx. Net Weight (lbs.)
			Liquid OD	Suction OD	Std	Opt	Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)										
CB*0551M6	4C0969SH	5.5	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	823
CB*0751M6	4C1145SH	7.5	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	862
CB*0901M6	4C1385SH	9	7/8	1 5/8	67.0	87.0	41 3/4	75 1/8	48 3/4	993
CB*1001M6	4C1480PH	10	7/8	1 5/8	67.0	87.0	41 3/4	75 1/8	48 3/4	1,101
Low Temperature (R-404A/507)										
CB*0401L6	4C0969SL	4	1/2	1 1/8	28.0	52.0	36 3/4	51 3/4	39 1/4	595
CB*0551L6	4C1145SL	5.5	1/2	1 1/8	28.0	52.0	36 3/4	51 3/4	39 1/4	645
CB*0601L6	4C1385SL	6	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	775
CB*0611L6	4C1480PL	6.5	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	865
CB*0751L6	4C1761PL	7.5	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	935
CB*1001L6	4C2067PL	10	5/8	1 3/8	67.0	78.0	36 3/4	63 3/4	39 1/4	1,000
CB*1201L6	4C2397PL	12	7/8	1 5/8	67.0	87.0	41 3/4	75 1/8	48 3/4	1,082
CB*1301L6	4B2707PL	13	7/8	1 5/8	67.0	87.0	41 3/4	75 1/8	48 3/4	1,173

Air-Cooled Condensing Units



4 - 13 HP Horizontal Air Discharge

Electrical Data

Models with Bitzer Compressors

* = T for Outdoor, N for Indoor, S for Beacon II™

Condensing unit data plate ratings for electric defrost applications will be based on actual system match. Contact your local Sales Representative or Account Engineer for assistance.

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost Kit Amps			
		RLA	LRA	Qty	Motor HP	FLA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)												
CB*0551M6C	208-230/3/60	26.5	163.0	2	1/3	5.4	38.5	60	Call Factory	Call Factory	Call Factory	Call Factory
CB*0551M6D	460/3/60	12.8	66.5	2	1/3	3.8	19.8	30	Call Factory	Call Factory	Call Factory	Call Factory
CB*0751M6C	208-230/3/60	29.0	215.0	2	1/3	5.4	41.7	70	Call Factory	Call Factory	Call Factory	Call Factory
CB*0751M6D	460/3/60	13.8	88.0	2	1/3	3.8	21.1	35	Call Factory	Call Factory	Call Factory	Call Factory
CB*0901M6C	208-230/3/60	32.7	215.0	2	3/4	8.8	49.7	80	Call Factory	Call Factory	Call Factory	Call Factory
CB*0901M6D	460/3/60	16.3	88.0	2	3/4	4.4	24.8	40	Call Factory	Call Factory	Call Factory	Call Factory
CB*1001M6C	208-230/3/60	38.5	222.0	2	3/4	8.8	56.9	90	Call Factory	Call Factory	Call Factory	Call Factory
CB*1001M6D	460/3/60	19.2	111.0	2	3/4	4.4	28.4	45	Call Factory	Call Factory	Call Factory	Call Factory
Low Temperature (R-404A/507)												
CB*0401L6C	208-230/3/60	16.7	142.0	1	1/3	2.7	23.6	40	Call Factory	Call Factory	Call Factory	Call Factory
CB*0401L6D	460/3/60	9.0	58.0	1	1/3	1.9	13.2	20	Call Factory	Call Factory	Call Factory	Call Factory
CB*0551L6C	208-230/3/60	19.4	163.0	1	1/3	2.7	27.0	45	Call Factory	Call Factory	Call Factory	Call Factory
CB*0551L6D	460/3/60	10.6	66.5	1	1/3	1.9	15.2	25	Call Factory	Call Factory	Call Factory	Call Factory
CB*0601L6C	208-230/3/60	24.9	215.0	2	1/3	5.4	36.5	60	Call Factory	Call Factory	Call Factory	Call Factory
CB*0601L6D	460/3/60	14.2	88.0	2	1/3	3.8	21.6	35	Call Factory	Call Factory	Call Factory	Call Factory
CB*0611L6C	208-230/3/60	24.4	150.0	2	1/3	5.4	35.9	60	Call Factory	Call Factory	Call Factory	Call Factory
CB*0611L6D	460/3/60	12.2	75.0	2	1/3	3.8	19.1	30	Call Factory	Call Factory	Call Factory	Call Factory
CB*0751L6C	208-230/3/60	28.2	180.0	2	1/3	5.4	40.7	60	Call Factory	Call Factory	Call Factory	Call Factory
CB*0751L6D	460/3/60	14.1	90.0	2	1/3	3.8	21.4	35	Call Factory	Call Factory	Call Factory	Call Factory
CB*1001L6C	208-230/3/60	34.6	222.0	2	1/3	5.4	48.7	80	Call Factory	Call Factory	Call Factory	Call Factory
CB*1001L6D	460/3/60	17.3	111.0	2	1/3	3.8	25.4	40	Call Factory	Call Factory	Call Factory	Call Factory
CB*1201L6C	208-230/3/60	39.7	252.0	2	3/4	8.8	58.4	90	Call Factory	Call Factory	Call Factory	Call Factory
CB*1201L6D	460/3/60	19.9	126.0	2	3/4	4.4	29.3	45	Call Factory	Call Factory	Call Factory	Call Factory
CB*1301L6C	208-230/3/60	43.6	294.0	2	3/4	8.8	63.3	100	Call Factory	Call Factory	Call Factory	Call Factory
CB*1301L6D	460/3/60	21.8	147.0	2	3/4	4.4	31.7	50	Call Factory	Call Factory	Call Factory	Call Factory

Notes:

Consult factory for 50 HZ applications.

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

12 - 40 HP Vertical Air Discharge

Overview



Product Description

The 12-40 HP vertical condensing units are designed to meet the needs of a demanding commercial and industrial refrigeration market. The product is configured to be flexible in its design and construction to allow it to respond to the requirements of refrigeration contractors, consulting engineers and facility owners/operators. The Floating Tube™ coil design incorporated in the product provides reliability against tube sheet leaks.

Opting for the Beacon II™ refrigeration system with Smart Defrost, Factory installed Smart Defrost Kit™ (SDK) or Variable Speed EC motors increases this products energy efficiency and qualifies it for the **E Solutions™** product portfolio.

Certifications



Cabinet & Construction

- All units feature the Floating Tube™ coil which eliminates tube sheet leaks
- Painted steel cabinet for superior strength and corrosion resistance

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access

Quality

- Sight Glass is easily viewable
- Fixed high and adjustable low pressure switch
- Refrigeration duty, rifled copper condenser tubing
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate braze joints where possible to reduce leak potential
- All joints are sweat type connections, no mechanical joints to leak
- Separate subcooling circuit in condenser for added capacity and vapor free liquid
- Pressure relief valve on receiver
- ServiceMate™ diagnostic module standard on all non-Beacon™ condensing units

Components

Compressor

- Spring-mounted compressors with suction and discharge eliminators
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves.

Other

- Sight glass and permanent liquid line filter

Motors

- Available with Variable Speed EC Motors

Nomenclature

C	D	V	S	1501	H	6	C
Model	Compressor	Style	Beacon II™	Equiv. HP	Operating Range	Refrigerant	Voltage
C = Climate Control	D = Discus®	V = Vertical	S = Beacon II™ No "S" = non-Beacon II™	1200/1201 = 12HP 1500/1501 = 15HP 2000/2001 = 20HP 2200/2201 = 22HP 2500/2501 = 25HP 2600 = 25HP 2700/2701 = 27HP 3000/3001 = 30HP 3500/3501 = 35HP 3505 = 35HP 4000/4001 = 40HP	H = High L = Low M = Medium	6 = R-404A/507, or R-22	C = 208-230/3/60 D = 460/3/60 K = 230/3/60

12 - 40 HP Vertical Air Discharge

Performance Data

Standard Models with Discus Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

For 50 cycle capacity, multiply values by .86

L6 models require the demand cooling option for R-22 operation.

L6 models will work in 120°F ambient.

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
C*1500M6	3DS3R17ME	25°F	138,000	133,500	129,000	119,900
C*1500M6	3DS3R17ME	20°F	124,500	120,400	116,200	107,900
C*1500M6	3DS3R17ME	15°F	111,700	107,900	104,100	96,500
C*2000M6	4DBNR20ME	40°F	233,100	225,100	217,200	-
C*2000M6	4DBNR20ME	35°F	212,700	205,400	198,100	-
C*2000M6	4DBNR20ME	30°F	193,100	186,500	179,800	166,800
C*2000M6	4DBNR20ME	25°F	174,500	168,400	162,400	150,800
C*2000M6	4DBNR20ME	20°F	156,900	151,400	146,000	135,400
C*2000M6	4DBNR20ME	15°F	140,100	135,200	130,400	120,900
C*2500M6	4DHNR22ME	40°F	-	-	-	-
C*2500M6	4DHNR22ME	35°F	-	-	-	-
C*2500M6	4DHNR22ME	30°F	-	-	-	-
C*2500M6	4DHNR22ME	25°F	189,200	182,900	176,500	163,800
C*2500M6	4DHNR22ME	20°F	170,700	164,800	158,900	147,100
C*2500M6	4DHNR22ME	15°F	152,600	147,200	141,800	130,800
C*2600M6	4DHNR22ME	40°F	252,600	244,900	237,100	221,600
C*2600M6	4DHNR22ME	35°F	232,600	225,300	218,000	203,100
C*2600M6	4DHNR22ME	30°F	212,700	205,900	199,100	185,300
C*2600M6	4DHNR22ME	25°F	193,100	186,800	180,400	167,600
C*2600M6	4DHNR22ME	20°F	174,000	168,100	162,200	150,300
C*2600M6	4DHNR22ME	15°F	155,400	149,900	144,400	133,400
C*3000M6	4DJNR28ME	40°F	299,500	288,900	279,100	260,100
C*3000M6	4DJNR28ME	35°F	274,500	265,500	256,800	239,200
C*3000M6	4DJNR28ME	30°F	251,100	242,600	234,700	217,950
C*3000M6	4DJNR28ME	25°F	227,700	219,900	212,400	196,700
C*3000M6	4DJNR28ME	20°F	205,300	198,000	190,700	176,000
C*3000M6	4DJNR28ME	15°F	183,300	176,500	169,700	155,900
C*3500M6	6DHNR35ME	40°F	383,800	372,100	359,400	336,300
C*3500M6	6DHNR35ME	35°F	351,000	340,600	329,700	307,900
C*3500M6	6DHNR35ME	30°F	320,700	310,800	300,800	280,700
C*3500M6	6DHNR35ME	25°F	290,800	281,600	272,400	253,900
C*3500M6	6DHNR35ME	20°F	262,100	253,700	245,300	228,300
C*3500M6	6DHNR35ME	15°F	235,000	227,300	219,600	204,100
C*4000M6	6DJNR40ME	40°F	437,400	423,200	407,500	379,300
C*4000M6	6DJNR40ME	35°F	403,500	389,000	376,000	349,100
C*4000M6	6DJNR40ME	30°F	369,700	357,200	344,600	320,200
C*4000M6	6DJNR40ME	25°F	338,000	326,300	314,700	291,300
C*4000M6	6DJNR40ME	20°F	306,900	296,100	285,300	263,700
C*4000M6	6DJNR40ME	15°F	277,100	267,200	257,200	237,300
Low Temperature (R-22)						
C*1200L6	4DBNF54KE	0°F	96,300	92,700	88,900	-
C*1200L6	4DBNF54KE	-10°F	74,000	70,900	67,500	60,300
C*1200L6	4DBNF54KE	-15°F	64,200	61,200	58,100	51,400
C*1200L6	4DBNF54KE	-20°F	55,100	52,400	49,500	43,200
C*1200L6	4DBNF54KE	-30°F	39,200	36,700	34,200	28,700
C*1200L6	4DBNF54KE	-40°F	25,600	23,500	21,300	16,500

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
C*1500L6	4DLNF63KE	0°F	104,000	100,100	96,200	88,200
C*1500L6	4DLNF63KE	-10°F	82,900	79,200	75,000	67,700
C*1500L6	4DLNF63KE	-15°F	73,000	69,100	65,500	58,700
C*1500L6	4DLNF63KE	-20°F	63,500	60,300	56,500	49,900
C*1500L6	4DLNF63KE	-30°F	47,300	43,800	40,800	34,300
C*1500L6	4DLNF63KE	-40°F	33,100	30,200	27,300	21,500
C*2200L6	4DTNF76KE	0°F	123,500	119,100	114,600	105,600
C*2200L6	4DTNF76KE	-10°F	98,200	93,900	89,900	81,900
C*2200L6	4DTNF76KE	-15°F	86,200	82,400	78,600	71,300
C*2200L6	4DTNF76KE	-20°F	75,200	71,600	68,200	61,000
C*2200L6	4DTNF76KE	-30°F	56,000	52,900	49,600	42,900
C*2200L6	4DTNF76KE	-40°F	40,900	37,500	34,500	28,400
C*2700L6	6DLNF93KE	0°F	152,500	147,000	141,500	130,500
C*2700L6	6DLNF93KE	-10°F	121,300	116,100	110,900	100,900
C*2700L6	6DLNF93KE	-15°F	107,100	102,100	97,100	87,700
C*2700L6	6DLNF93KE	-20°F	93,600	88,800	84,000	74,900
C*2700L6	6DLNF93KE	-30°F	69,800	64,800	60,700	51,700
C*2700L6	6DLNF93KE	-40°F	49,100	45,000	40,800	32,500
C*3000L6	6DTNF11M3	0°F	181,900	174,700	167,500	153,000
C*3000L6	6DTNF11M3	-10°F	145,400	138,500	132,100	119,900
C*3000L6	6DTNF11M3	-15°F	127,700	121,800	115,900	104,700
C*3000L6	6DTNF11M3	-20°F	111,600	106,100	101,000	90,100
C*3000L6	6DTNF11M3	-30°F	83,400	78,100	73,700	63,900
C*3000L6	6DTNF11M3	-40°F	60,400	55,400	51,100	42,400

Section 2

12 - 40 HP Vertical Air Discharge

Performance Data

High Efficiency Models with Discus Compressors and Oversize Condensers

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

For 50 cycle capacity, multiply values by .86

All models will work in 120°F ambient.

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
High Temperature (R-404A/507)						
C*1501H6	3DS3R17ME	40°F	196,190	187,260	178,350	161,300
C*1501H6	3DS3R17ME	35°F	182,850	174,670	166,700	150,900
C*1501H6	3DS3R17ME	30°F	169,550	162,100	155,020	139,880
C*1501H6	3DS3R17ME	25°F	156,350	149,600	142,870	129,470
C*1501H6	3DS3R17ME	20°F	142,960	136,850	130,760	118,640
C*1501H6	3DS3R17ME	15°F	129,800	124,290	118,790	107,870
C*2001H6	4DBNR20ME	40°F	250,300	238,800	227,200	212,300
C*2001H6	4DBNR20ME	35°F	231,900	221,200	210,400	192,600
C*2001H6	4DBNR20ME	30°F	213,700	203,700	193,900	173,800
C*2001H6	4DBNR20ME	25°F	195,100	186,000	177,100	156,500
C*2001H6	4DBNR20ME	20°F	177,300	169,000	160,800	139,900
C*2001H6	4DBNR20ME	15°F	160,100	152,600	145,200	124,500
C*2501H6	4DHR22ME	40°F	270,120	258,420	247,190	224,680
C*2501H6	4DHR22ME	35°F	249,720	239,140	228,660	207,690
C*2501H6	4DHR22ME	30°F	229,680	219,940	210,190	190,710
C*2501H6	4DHR22ME	25°F	210,070	201,030	192,000	173,900
C*2501H6	4DHR22ME	20°F	190,970	182,610	174,260	157,570
C*2501H6	4DHR22ME	15°F	171,200	164,900	157,210	141,860
C*3001H6	4DJNR28ME	40°F	320,940	306,860	292,280	262,960
C*3001H6	4DJNR28ME	35°F	299,070	285,660	272,190	245,320
C*3001H6	4DJNR28ME	30°F	276,660	264,260	251,780	227,020
C*3001H6	4DJNR28ME	25°F	254,250	242,830	231,370	208,610
C*3001H6	4DJNR28ME	20°F	232,010	221,530	211,090	190,280
C*3001H6	4DJNR28ME	15°F	210,150	200,620	191,120	17,290
C*3501H6	6DHR35ME	40°F	405,680	387,500	368,860	332,890
C*3501H6	6DHR35ME	35°F	377,320	360,570	344,090	310,920
C*3501H6	6DHR35ME	30°F	349,540	334,330	319,060	288,380
C*3501H6	6DHR35ME	25°F	321,910	307,860	293,770	265,100
C*3501H6	6DHR35ME	20°F	294,350	281,420	268,460	242,480
C*3501H6	6DHR35ME	15°F	267,160	255,280	243,390	219,620
C*4001H6	6DJNR40ME	40°F	462,780	443,100	423,350	383,640
C*4001H6	6DJNR40ME	35°F	431,770	413,390	394,830	357,840
C*4001H6	6DJNR40ME	30°F	400,470	383,350	366,170	331,750
C*4001H6	6DJNR40ME	25°F	369,160	353,210	337,300	305,510
C*4001H6	6DJNR40ME	20°F	338,070	323,370	308,680	279,360
C*4001H6	6DJNR40ME	15°F	307,580	294,040	280,530	253,560

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
Low Temperature (R-404A/507)						
C*1201L6	4DBNF54KE	0°F	106,000	101,700	97,300	88,300
C*1201L6	4DBNF54KE	-10°F	84,700	81,300	77,800	70,500
C*1201L6	4DBNF54KE	-15°F	75,400	72,300	69,100	62,400
C*1201L6	4DBNF54KE	-20°F	66,700	63,900	60,900	54,800
C*1201L6	4DBNF54KE	-30°F	51,000	48,400	45,800	40,200
C*1201L6	4DBNF54KE	-40°F	36,300	33,800	31,300	25,800
C*1501L6	4DLNF63KE	0°F	115,220	109,810	104,430	94,240
C*1501L6	4DLNF63KE	-10°F	95,660	91,120	86,600	77,670
C*1501L6	4DLNF63KE	-15°F	86,020	81,620	77,700	69,520
C*1501L6	4DLNF63KE	-20°F	76,720	72,890	69,090	61,590
C*1501L6	4DLNF63KE	-30°F	59,610	56,350	53,120	46,770
C*1501L6	4DLNF63KE	-40°F	45,060	42,330	39,510	33,960
C*2201L6	4DTNF76KE	0°F	137,620	129,270	122,200	108,700
C*2201L6	4DTNF76KE	-10°F	114,060	108,150	102,270	90,590
C*2201L6	4DTNF76KE	-15°F	102,840	97,420	91,730	81,350
C*2201L6	4DTNF76KE	-20°F	91,630	86,870	81,680	72,120
C*2201L6	4DTNF76KE	-30°F	71,180	66,890	62,620	54,200
C*2201L6	4DTNF76KE	-40°F	53,270	49,360	45,470	37,800
C*2701L6	6DLNF93KE	0°F	178,040	168,760	159,390	143,400
C*2701L6	6DLNF93KE	-10°F	145,620	137,830	131,100	116,690
C*2701L6	6DLNF93KE	-15°F	129,580	123,370	116,120	103,970
C*2701L6	6DLNF93KE	-20°F	114,240	108,440	102,810	91,490
C*2701L6	6DLNF93KE	-30°F	87,910	82,880	77,880	67,980
C*2701L6	6DLNF93KE	-40°F	66,000	61,360	56,760	47,620
C*3001L6	6DTNF11ME	0°F	196,300	186,800	177,640	157,280
C*3001L6	6DTNF11ME	-10°F	161,650	152,400	144,640	128,990
C*3001L6	6DTNF11ME	-15°F	143,700	136,160	128,850	114,760
C*3001L6	6DTNF11ME	-20°F	127,400	120,850	114,140	100,870
C*3001L6	6DTNF11ME	-30°F	98,390	92,270	86,580	74,970
C*3001L6	6DTNF11ME	-40°F	74,820	69,270	63,790	52,930
High Temperature (R-22)						
C*1501H6	3DS3R17ME	40°F	192,560	186,050	179,540	169,665
C*1501H6	3DS3R17ME	35°F	177,710	171,700	165,690	154,800
C*1501H6	3DS3R17ME	30°F	161,370	155,915	150,460	140,410
C*1501H6	3DS3R17ME	25°F	145,720	140,795	135,870	126,610
C*1501H6	3DS3R17ME	20°F	130,870	126,445	122,020	113,490

12 - 40 HP Vertical Air Discharge

Performance Data

High Efficiency Models with Discus Compressors and Oversize Condensers

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

For 50 cycle capacity, multiply values by .86

All models will work in 120°F ambient.

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)			
			Ambient Temperature °F			
			90°F	95°F	100°F	110°F
C*1501H6	3DS3R17ME	15°F	116,930	112,980	109,030	101,175
C*2001H6	4DBNR20ME	40°F	244,400	235,900	228,200	212,300
C*2001H6	4DBNR20ME	35°F	222,100	214,600	207,200	192,600
C*2001H6	4DBNR20ME	30°F	200,700	194,000	187,300	173,800
C*2001H6	4DBNR20ME	25°F	180,600	174,500	168,500	156,500
C*2001H6	4DBNR20ME	20°F	161,700	156,100	150,700	139,900
C*2001H6	4DBNR20ME	15°F	143,900	139,000	134,100	124,500
C*2501H6	4DHNR22ME	40°F	270,930	261,765	252,600	236,910
C*2501H6	4DHNR22ME	35°F	248,340	239,940	231,540	216,675
C*2501H6	4DHNR22ME	30°F	226,120	218,475	210,830	196,770
C*2501H6	4DHNR22ME	25°F	204,390	197,475	190,560	177,305
C*2501H6	4DHNR22ME	20°F	183,260	177,065	170,870	158,390
C*2501H6	4DHNR22ME	15°F	162,880	157,370	151,860	140,180
C*3001H6	4DJNR28ME	40°F	318,160	307,400	296,640	277,255
C*3001H6	4DJNR28ME	35°F	291,570	281,710	271,850	253,685
C*3001H6	4DJNR28ME	30°F	265,450	256,470	247,490	230,430
C*3001H6	4DJNR28ME	25°F	239,960	231,850	223,740	207,645
C*3001H6	4DJNR28ME	20°F	215,300	208,020	200,740	185,480
C*3001H6	4DJNR28ME	15°F	191,630	185,150	178,670	164,100
C*3501H6	6DHNR35ME	40°F	407,800	394,010	380,220	358,100
C*3501H6	6DHNR35ME	35°F	372,570	359,970	347,370	326,650
C*3501H6	6DHNR35ME	30°F	338,390	326,950	315,510	296,160
C*3501H6	6DHNR35ME	25°F	305,540	295,210	284,880	266,910
C*3501H6	6DHNR35ME	20°F	274,300	265,025	255,750	239,075
C*3501H6	6DHNR35ME	15°F	244,930	236,650	228,370	212,920
C*4001H6	6DJNR40ME	40°F	462,070	446,440	430,810	401,980
C*4001H6	6DJNR40ME	35°F	424,540	410,180	395,820	368,630
C*4001H6	6DJNR40ME	30°F	388,090	374,970	361,850	336,210
C*4001H6	6DJNR40ME	25°F	352,840	340,910	328,980	304,920
C*4001H6	6DJNR40ME	20°F	319,000	308,210	297,420	274,955
C*4001H6	6DJNR40ME	15°F	286,780	277,080	267,380	246,525

Air-Cooled Condensing Units



12 - 40 HP Vertical Air Discharge

Unit Specifications

Standard Models with Discus Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Compressor	Fan Motor		Connections (in.)		Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight. (lbs.)
		Qty	Dia.	Liquid (OD)	Suction (OD)	Standard	Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)										
C*1500M6	3DS3R17ME	2	26	7/8	1 5/8	123	44 1/2	144	55 15/16	1,580
C*2000M6	4DBNR20ME	2	26	7/8	2 1/8	123	44 1/2	144	55 15/16	1,610
C*2500M6	4DHNR22ME	2	26	1 1/8	2 1/8	123	44 1/2	144	55 15/16	1,630
C*2600M6	4DHNR22ME	2	30	1 1/8	2 1/8	123	44 1/2	170 11/16	55 15/16	1,770
C*3000M6	4DJNR28ME	2	30	1 1/8	2 1/8	188	44 1/2	170 11/16	55 15/16	1,860
C*3500M6	6DHNR35ME	3	30	1 1/8	2 1/8	188	44 1/2	225 11/16	55 15/16	2,260
C*4000M6	6DJNR40ME	3	30	1 1/8	2 1/8	188	44 1/2	225 11/16	55 15/16	2,360
Low Temperature (R-404A/507)										
C*1200L6	4DBNF54KE	2	26	7/8	1 5/8	81	44 1/2	144	55 15/16	1,500
C*1500L6	4DLNF63KE	2	26	7/8	1 5/8	81	44 1/2	144	55 15/16	1,500
C*2200L6	4DTNF76KE	2	26	7/8	2 1/8	81	44 1/2	144	55 15/16	1,500
C*2700L6	6DLNF39KE	2	26	1 1/8	2 1/8	123	44 1/2	144	55 15/16	1,670
C*3000L6	6DTNF11ME	2	30	1 1/8	2 1/8	123	44 1/2	170 11/16	55 15/16	1,870
Medium Temperature (R-22)										
C*1500M6	3DS3R17ME	2	26	7/8	1 5/8	142	44 1/2	144	55 15/16	1,580
C*2000M6	4DBNR20ME	2	26	7/8	2 1/8	142	44 1/2	144	55 15/16	1,610
C*2500M6	4DHNR22ME	2	26	1 1/8	2 1/8	142	44 1/2	144	55 15/16	1,630
C*2600M6	4DHNR22ME	2	30	1 1/8	2 1/8	142	44 1/2	170 11/16	55 15/16	1,770
C*3000M6	4DJNR28ME	2	30	1 1/8	2 1/8	216	44 1/2	170 11/16	55 15/16	1,860
C*3500M6	6DHNR35ME	3	30	1 1/8	2 1/8	216	44 1/2	225 11/16	55 15/16	2,260
C*4000M6	6DJNR40ME	3	30	1 1/8	2 1/8	216	44 1/2	225 11/16	55 15/16	2,360
Low Temperature (R-22)										
C*1200L6	4DBNF54KE	2	26	7/8	1 5/8	93	44 1/2	144	55 15/16	1,500
C*1500L6	4DLNF63KE	2	26	7/8	1 5/8	93	44 1/2	144	55 15/16	1,500
C*2200L6	4DTNF76KE	2	26	7/8	2 1/8	93	44 1/2	144	55 15/16	1,500
C*2700L6	6DLNF39KE	2	26	1 1/8	2 1/8	142	44 1/2	144	55 15/16	1,670
C*3000L6	6DTNF11ME	2	30	1 1/8	2 1/8	142	44 1/2	170 11/16	55 15/16	1,870

12 - 40 HP Vertical Air Discharge

Unit Specifications

High Efficiency Models with Discus Compressors and Oversize Condensers

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Compressor	Fan Motor		Connections (in.)		Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight. (lbs.)
		Qty	Dia.	Liquid (OD)	Suction (OD)	Standard	Depth (in.)	Width (in.)	Height (in.)	
High Temperature (R-404A/507)										
C*1501H6	3DS3R17ME	2	30	7/8	1 5/8	123	44 1/2	170 11/16	55 15/16	1,680
C*2001H6	4DBNR20ME	2	30	7/8	2 1/8	123	44 1/2	170 11/16	55 15/16	1,760
C*2501H6	4DHNR22ME	3	30	1 1/8	2 1/8	188	44 1/2	225 11/16	55 15/16	1,750
C*3001H6	4DJNR28ME	3	30	1 1/8	2 1/8	188	44 1/2	225 11/16	55 15/16	2,160
C*3501H6	6DHNR35ME	4	30	1 1/8	2 1/8	188	44 1/2	280 11/16	55 15/16	2,770
C*4001H6	6DJNR40ME	4	30	1 1/8	2 1/8	188	44 1/2	280 11/16	55 15/16	2,870
Low Temperature (R-404A/507)										
C*1201L6	4DBNF54KE	2	26	7/8	2 1/8	81	44 1/2	144	55 15/16	1,600
C*1501L6	4DLNF63KE	2	26	7/8	1 5/8	81	44 1/2	144	55 15/16	1,750
C*2201L6	4DTNF76KE	2	26	7/8	2 1/8	81	44 1/2	144	55 15/16	1,780
C*2701L6	6DLNF93KE	2	30	1 1/8	2 1/8	123	44 1/2	170 11/16	55 15/16	1,970
C*3001L6	6DTNF11ME	2	30	1 1/8	2 1/8	123	44 1/2	170 11/16	55 15/16	2,070
High Temperature (R-22)										
C*1501H6	3DS3R17ME	2	30	7/8	1 5/8	142	44 1/2	170 11/16	55 15/16	1,680
C*2001H6	4DBNR20ME	2	30	7/8	2 1/8	142	44 1/2	170 11/16	55 15/16	1,760
C*2501H6	4DHNR22ME	3	30	1 1/8	2 1/8	216	44 1/2	225 11/16	55 15/16	1,750
C*3001H6	4DJNR28ME	3	30	1 1/8	2 1/8	216	44 1/2	225 11/16	55 15/16	2,160
C*3501H6	6DHNR35ME	4	30	1 1/8	2 1/8	216	44 1/2	280 11/16	55 15/16	2,770
C*4001H6	6DJNR40ME	4	30	1 1/8	2 1/8	216	44 1/2	280 11/16	55 15/16	2,870
Low Temperature (R-22)										
C*1201L6	4DBNF54KE	2	26	7/8	2 1/8	93	44 1/2	144	55 15/16	1,600
C*1501L6	4DLNF63KE	2	26	7/8	1 5/8	93	44 1/2	144	55 15/16	1,750
C*2201L6	4DTNF76KE	2	26	7/8	2 1/8	93	44 1/2	144	55 15/16	1,780
C*2701L6	6DLNF93KE	2	30	1 1/8	2 1/8	142	44 1/2	170 11/16	55 15/16	1,970
C*3001L6	6DTNF11ME	2	30	1 1/8	2 1/8	142	44 1/2	170 11/16	55 15/16	2,070

Air-Cooled Condensing Units



12 - 40 HP Vertical Air Discharge

Electrical Data

Standard Models with Discus Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Low Amps				Electric Defrost Kit High Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
System with One Evaporator (1L or 1H)															
C*1200L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	74.0	110	15	40	74.0	110	15	48
C*1200L6	460/3/60	23.0	110.0	2	4.0	32.8	50	40.0	60	10	19	40.0	60	10	24
C*1500L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	82.0	125	15	40	82.0	125	15	48
C*1500L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	24	49.0	70	15	40
C*1500M6	460/3/60	29.0	138.0	2	4.0	37.0	60	52.0	80	15	40	52.0	80	15	48
C*2000M6	460/3/60	32.4	187.0	2	4.0	44.5	70	56.0	80	15	40	56.0	80	15	48
C*2200L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	95.0	150	15	40	95.0	150	15	48
C*2200L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	40	55.0	80	15	48
C*2700L6	460/3/60	36.2	225.0	2	4.0	49.0	80	64.0	100	15	40	64.0	100	15	48
C*3000L6	460/3/60	42.9	235.0	2	7.0	61.0	100	76.0	110	15	40	76.0	110	15	48
System with Two Evaporators (2L or 2H)															
C*1200L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	74.0	110	15	34	79.0	110	20	74
C*1200L6	460/3/60	23.0	110.0	2	4.0	32.8	50	40.0	60	10	19	45.0	60	15	38
C*1500L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	87.0	125	20	80	91.0	125	20	91
C*1500L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	32	49.0	70	15	48
C*1500M6	208-230/3/60	59.6	275.0	2	8.0	75.0	125	99.9	150	25	80	99.9	150	25	96
C*1500M6	460/3/60	29.0	138.0	2	4.0	37.0	60	52.0	70	15	48	64.0	80	15	64
C*2000M6	208-230/3/60	64.7	374.0	2	8.0	88.9	150	102.6	150	20	80	103.0	150	20	96
C*2000M6	460/3/60	32.4	187.0	2	4.0	44.5	70	56.0	80	15	48	64.0	80	15	64
C*2200L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	100.0	150	20	80	100.0	150	20	96
C*2200L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	48	64.0	80	15	64
C*2500M6	460/3/60	33.4	214.0	2	4.0	50.0	80	65.0	100	15	48	80.0	100	15	80
C*2600M6	460/3/60	33.4	214.0	2	7.0	53.0	90	68.0	100	15	48	80.0	110	15	80
C*2700L6	208-230/3/60	72.4	450.0	2	8.0	99.0	150	119.0	175	20	80	119.0	175	20	96
C*2700L6	460/3/60	36.2	225.0	2	4.0	49.0	80	64.0	100	15	48	64.0	100	15	64
C*3000L6	208-230/3/60	85.8	470.0	2	14.0	121.0	200	141.0	225	20	80	141.0	225	20	96
C*3000L6	460/3/60	42.9	235.0	2	7.0	61.0	100	76.0	110	15	48	80.0	110	15	80
C*3000M6	460/3/60	47.3	235.0	2	7.0	66.1	110	80.0	110	15	80	96.0	110	20	96
C*3500M6	460/3/60	56.2	283.0	3	11.0	71.0	110	91.0	125	20	80	96.0	125	20	96
C*4000M6	460/3/60	64.1	297.0	3	11.0	91.1	150	110.0	150	20	80	110.0	150	20	96
System with up to Four Evaporators (4L or 4H)															
C*1200L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	81.0	110	22	48	81.0	110	22	64
C*1500L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	92.0	125	25	64	92.0	125	25	91
C*1500L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	48	49.0	70	15	48
C*1500M6	208-230/3/60	59.6	275.0	2	8.0	75.0	125	100.0	150	25	96	108.0	150	25	108
C*1500M6	460/3/60	29.0	138.0	2	4.0	37.0	60	52.0	70	15	48	64.0	80	15	64

Notes:

Consult factory for 50 HZ applications.

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

12 - 40 HP Vertical Air Discharge

Electrical Data

Standard Models with Discus Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Low Amps				Electric Defrost Kit High Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
C*2000M6	208-230/3/60	64.7	374.0	2	8.0	88.9	150	108.0	150	25	96	108.0	150	25	108
C*2000M6	460/3/60	32.4	187.0	2	4.0	44.5	70	56.0	80	15	48	64.0	80	15	64
C*2200L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	105.0	150	25	96	105.0	150	25	105
C*2200L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	48	55.0	80	15	48
C*2500M6	208-230/3/60	66.8	428.0	2	8.0	100.0	150	125.0	175	25	125	181.0	225	30	181
C*2500M6	460/3/60	33.4	214.0	2	4.0	50.0	80	70.0	100	20	64	96.0	110	20	96
C*2600M6	208-230/3/60	66.8	428.0	2	14.0	106.0	175	131.0	200	25	125	181.0	225	30	181
C*2600M6	460/3/60	33.4	214.0	2	7.0	53.0	90	73.0	110	20	64	96.0	110	20	96
C*2700L6	208-230/3/60	72.4	450.0	2	8.0	99.0	150	124.0	175	25	96	124.0	175	25	108
C*2700L6	460/3/60	36.2	225.0	2	4.0	49.0	80	64.0	100	15	48	64.0	100	15	64
C*3000L6	208-230/3/60	85.8	470.0	2	14.0	121.0	200	151.0	225	30	150	181.0	225	30	181
C*3000L6	460/3/60	42.9	235.0	2	7.0	61.0	100	81.0	110	20	64	91.0	110	20	91
C*3000M6	208-230/3/60	94.6	470.0	2	14.0	132.3	225	150.0	225	30	149	181.0	225	30	181
C*3000M6	460/3/60	47.3	235.0	2	7.0	66.1	110	80.0	110	20	64	96.0	125	20	96
C*3500M6	208-230/3/60	112.3	565.0	3	21.0	141.0	225	176.0	250	35	160	192.0	250	35	192
C*3500M6	460/3/60	56.2	283.0	3	11.0	71.0	110	91.0	125	20	64	96.0	125	20	96
C*4000M6	230/3/60	128.2	594.0	3	21.0	180.3	300	215.0	300	35	160	215.0	300	35	192
C*4000M6	460/3/60	64.1	297.0	3	11.0	91.1	150	110.0	150	20	64	110.0	150	20	96

Notes:

Consult factory for 50 HZ applications.

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

Air-Cooled Condensing Units



12 - 40 HP Vertical Air Discharge

Electrical Data

High Efficiency Models with Discus Compressors and Oversize Condensers

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Low Amps				Electric Defrost Kit High Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
System with One Evaporator (1L or 1H)															
C*1201L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	74.0	110	15	40	74.0	110	15	48
C*1201L6	460/3/60	23.0	110.0	2	4.0	32.8	50	40.0	60	10	19	40.0	60	10	24
C*1501H6	460/3/60	29.0	138.0	2	7.0	40.0	60	55.0	80	15	40	55.0	80	15	48
C*1501L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	82.0	125	15	40	82.0	125	15	48
C*1501L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	24	49.0	70	15	40
C*2001H6	460/3/60	32.4	187.0	2	7.0	47.5	70	59.0	80	15	40	59.0	80	15	48
C*2201L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	95.0	150	15	40	95.0	150	15	48
C*2201L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	40	55.0	80	15	48
C*2701L6	460/3/60	36.2	225.0	2	7.0	52.0	80	67.0	100	15	40	67.0	100	15	48
C*3001L6	460/3/60	42.9	235.0	2	7.0	61.0	100	76.0	110	15	40	76.0	110	15	48
System with Two Evaporators (2L or 2H)															
C*1201L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	74.0	110	15	34	79.0	110	20	74
C*1201L6	460/3/60	23.0	110.0	2	4.0	32.8	50	40.0	60	10	19	45.0	60	15	38
C*1501H6	208-230/3/60	59.6	275.0	2	14.0	81.0	125	106.0	150	25	80	106.0	150	25	96
C*1501H6	460/3/60	29.0	138.0	2	7.0	40.0	60	55.0	80	15	48	64.0	80	15	64
C*1501L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	87.0	125	20	80	91.0	125	20	91
C*1501L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	32	49.0	70	15	48
C*2001H6	208-230/3/60	64.7	374.0	2	14.0	94.9	150	109.0	150	20	80	109.0	150	20	96
C*2001H6	460/3/60	32.4	187.0	2	7.0	47.5	70	56.0	80	15	48	64.0	80	15	64
C*2201L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	100.0	150	20	80	100.0	150	20	96
C*2201L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	48	64.0	80	15	64
C*2501H6	460/3/60	33.4	214.0	3	11.0	57.0	90	72.0	100	15	48	80.0	100	15	80
C*2701L6	208-230/3/60	72.4	450.0	2	14.0	105.0	175	125.0	175	20	80	125.0	175	20	96
C*2701L6	460/3/60	36.2	225.0	2	7.0	52.0	80	67.0	100	15	48	67.0	100	15	64
C*3001H6	460/3/60	47.3	235.0	3	11.0	70.1	110	80.0	110	15	80	96.0	125	20	96
C*3001L6	208-230/3/60	85.8	470.0	2	14.0	121.0	200	141.0	225	20	80	141.0	225	20	96
C*3001L6	460/3/60	42.9	235.0	2	7.0	61.0	100	76.0	110	15	48	80.0	110	15	80
C*3501H6	460/3/60	56.2	283.0	4	14.0	74.0	110	94.0	125	20	80	96.0	125	20	96
C*4001H6	460/3/60	64.1	297.0	4	14.0	94.1	150	113.0	175	20	80	113.0	175	20	96
System with up to Four Evaporators (4L or 4H)															
C*1201L6	208-230/3/60	46.0	220.0	2	8.0	65.5	110	81.0	110	22	48	81.0	110	22	64
C*1501H6	208-230/3/60	59.6	275.0	2	14.0	81.0	125	106.0	150	25	96	108.0	150	25	108
C*1501H6	460/3/60	29.0	138.0	2	7.0	40.0	60	55.0	70	15	48	64.0	80	15	64
C*1501L6	208-230/3/60	47.2	278.0	2	8.0	67.0	110	92.0	125	25	64	91.0	125	25	91

Notes:

Consult factory for 50 HZ applications.

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

12 - 40 HP Vertical Air Discharge

Electrical Data

High Efficiency Models with Discus Compressors and Oversize Condensers

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Low Amps				Electric Defrost Kit High Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
C*1501L6	460/3/60	23.6	139.0	2	4.0	34.0	50	49.0	70	15	48	49.0	70	15	48
C*2001H6	208-230/3/60	64.7	374.0	2	14.0	94.9	150	114.0	150	25	96	114.0	150	25	108
C*2001H6	460/3/60	32.4	187.0	2	7.0	47.5	70	59.0	80	15	48	64.0	80	15	64
C*2201L6	208-230/3/60	57.7	374.0	2	8.0	80.0	125	105.0	150	25	96	105.0	150	25	105
C*2201L6	460/3/60	28.8	187.0	2	4.0	40.0	60	55.0	80	15	48	55.0	80	15	48
C*2501H6	208-230/3/60	66.8	428.0	3	21.0	113.0	175	138.0	200	25	125	181.0	225	30	181
C*2501H6	460/3/60	33.4	214.0	3	11.0	57.0	90	77.0	110	20	64	96.0	110	20	96
C*2701L6	208-230/3/60	72.4	450.0	2	14.0	105.0	175	130.0	200	25	96	130.0	200	25	108
C*2701L6	460/3/60	36.2	225.0	2	7.0	52.0	80	67.0	100	15	48	67.0	100	15	64
C*3001H6	208-230/3/60	94.6	470.0	3	21.0	139.3	225	156.0	225	30	149	181.0	225	30	181
C*3001H6	460/3/60	47.3	235.0	3	11.0	70.1	110	83.0	125	20	64	96.0	125	20	96
C*3001L6	208-230/3/60	85.8	470.0	2	14.0	121.0	200	151.0	225	30	150	181.0	225	30	181
C*3001L6	460/3/60	42.9	235.0	2	7.0	61.0	100	81.0	110	20	64	91.0	110	20	91
C*3501H6	208-230/3/60	112.3	565.0	4	28.0	148.0	225	183.0	250	35	160	192.0	250	35	192
C*3501H6	460/3/60	56.2	283.0	4	14.0	74.0	110	94.0	125	20	64	96.0	125	20	96
C*4001H6	230/3/60	128.2	594.0	4	28.0	188.3	300	222.0	300	35	160	222.0	300	35	192
C*4001H6	460/3/60	64.1	297.0	4	14.0	94.1	150	113.0	175	20	64	113.0	178	20	96

Notes:

Consult factory for 50 HZ applications.

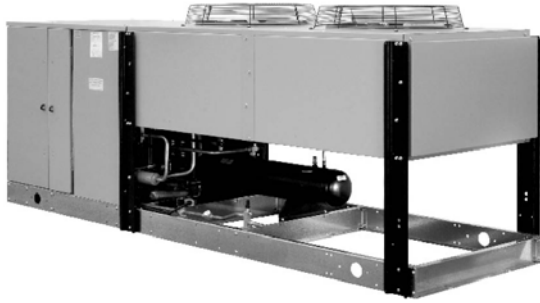
MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

13 - 50 HP Vertical Air Discharge

Overview



Product Description

The 13-50 HP condensing unit product line with Bitzer® compressors is designed to meet the needs of a demanding commercial and industrial refrigeration market. The product is configured to be flexible in its design and construction to allow it to respond to the requirements of refrigeration contractors, consulting engineers and facility owners/operators. The Floating Tube™ coil design incorporated in the product provides protection against tube sheet leaks.

Opting for the Beacon II™ refrigeration system with Smart Defrost, Factory installed Defrost Kit™ (SDK) or Variable Speed EC motors increases this product's energy efficiency and qualifies it for the **E Solutions™** product portfolio

Certifications



Cabinet & Construction

- All units feature the Floating Tube™ coil which eliminates tube sheet leaks
- Painted steel cabinets for superior strength and corrosion resistance

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access

Quality

- Sight glass is easily viewable
- Fixed high pressure switch eliminates capillary tubes
- Refrigeration duty, rifled copper tubing
- Piping is pre-bent to eliminate braze joints, where possible, to reduce leak potential
- All joints are sweat type connections, no mechanical joints to leak
- Separate sub-cooling circuit in condenser for added capacity and vapor free liquid
- Pressure relief valve on receiver
- ServiceMate™ diagnostic module standard on all non-Beacon™ condensing units

Components

Compressor

- Units feature Bitzer® semi-hermetic compressors.
- Available with compressor unloading
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves

Other

- Sight glass and permanent liquid line filter

Nomenclature

C	D	V	300B	L	6	C
Model	Head Pressure Control	Style	Equiv. HP	Operating Range	Refrigerant	Voltage
C = Climate Control	D - Adjustable Head Pressure Control	V = Vertical VS = Vertical Beacon II™	130B = 13HP 150B = 15HP 200B = 20HP 220B = 22HP 250B = 25HP 300B = 30HP 330B = 33HP 350B = 35HP 400B = 40HP 500B = 50HP	L = Low M = Medium	6 = R-404A/507	C = 208-230/3/60 D = 460/3/60

Air-Cooled Condensing Units



13 - 50 HP Vertical Air Discharge

Unit Specifications

Models with Bitzer Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Climate Control Base Model	Compressor	Unit HP	Connections (in.)		Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
			Liquid (OD)	Suction (OD)	Standard	Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)									
C*150BM6	4C2067PH	15	7/8	1 5/8	123	44 1/2	144	55 3/5	1,630
C*200BM6	4C2397PH	20	7/8	1 5/8	123	44 1/2	171	55 3/5	1,810
C*220BM6	4B2707PH	22	1 1/8	2 1/8	123	44 1/2	171	55 3/5	1,880
C*250BM6	4B3139PH	25	1 1/8	2 1/8	123	44 1/2	171	55 3/5	1,900
C*300BM6	4B3604PH	30	1 1/8	2 1/8	188	44 1/2	226	55 3/5	2,310
C*330BM6	6B4060PH	33	1 1/8	2 1/8	188	44 1/2	226	55 3/5	2,320
C*350BM6	6B4709PH	35	1 1/8	2 1/8	188	44 1/2	226	55 3/5	2,320
C*400BM6	6B5406PH	40	1 1/8	2 1/8	188	44 1/2	281	55 3/5	2,870
C*500BM6	6B6462PH	50	1 1/8	2 1/8	188	44 1/2	281	55 3/5	2,890
Low Temperature (R-404A/507)									
C*130BL6	4B2707PL	13	7/8	1 5/8	81	44 1/2	144	55 3/5	1,560
C*150BL6	4B3139PL	15	7/8	1 5/8	81	44 1/2	144	55 3/5	1,580
C*200BL6	4B3604PL	20	7/8	2 1/8	81	44 1/2	144	55 3/5	1,640
C*220BL6	6B4060PL	22	7/8	2 1/8	123	44 1/2	171	55 3/5	1,810
C*250BL6	6B4709PL	25	1 1/8	2 1/8	123	44 1/2	171	55 3/5	1,900
C*300BL6	6B5406PL	30	1 1/8	2 1/8	123	44 1/2	171	55 3/5	1,900
C*400BL6	6B6462PL	40	1 1/8	2 1/8	188	44 1/2	226	55 3/5	2,310

13 - 50 HP Vertical Air Discharge

Electrical Data

Models with Bitzer Compressors

* = DV for Adjustable Head Pressure Control, DVS for Beacon II™

Condensing unit data plate ratings for electric defrost applications will be based on actual system match. Contact your local Sales Representative or Account Engineer for assistance.

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs
Medium Temperature (R-404A/507)											
C*150BM6	208-230/3/60	48.7	294.0	2	9.6	70.5	110	Call Factory	Call Factory	Call Factory	Call Factory
C*150BM6	460/3/60	24.4	147.0	2	4.8	35.3	60	Call Factory	Call Factory	Call Factory	Call Factory
C*200BM6	208-230/3/60	57.7	352.0	2	14.0	86.1	125	Call Factory	Call Factory	Call Factory	Call Factory
C*200BM6	460/3/60	28.8	176.0	2	7.0	43.0	70	Call Factory	Call Factory	Call Factory	Call Factory
C*220BM6	208-230/3/60	61.5	352.0	2	14.0	90.9	150	Call Factory	Call Factory	Call Factory	Call Factory
C*220BM6	460/3/60	30.8	176.0	2	7.0	45.5	70	Call Factory	Call Factory	Call Factory	Call Factory
C*250BM6	208-230/3/60	75.6	436.0	2	14.0	108.5	175	Call Factory	Call Factory	Call Factory	Call Factory
C*250BM6	460/3/60	37.8	218.0	2	7.0	54.3	90	Call Factory	Call Factory	Call Factory	Call Factory
C*300BM6	208-230/3/60	89.7	490.0	3	21.0	133.1	200	Call Factory	Call Factory	Call Factory	Call Factory
C*300BM6	460/3/60	44.9	245.0	3	10.5	66.6	110	Call Factory	Call Factory	Call Factory	Call Factory
C*330BM6	208-230/3/60	100.0	550.0	3	21.0	146.0	225	Call Factory	Call Factory	Call Factory	Call Factory
C*330BM6	460/3/60	50.0	275.0	3	10.5	73.0	110	Call Factory	Call Factory	Call Factory	Call Factory
C*350BM6	208-230/3/60	105.1	550.0	3	21.0	152.4	250	Call Factory	Call Factory	Call Factory	Call Factory
C*350BM6	460/3/60	52.6	275.0	3	10.5	76.3	125	Call Factory	Call Factory	Call Factory	Call Factory
C*400BM6	208-230/3/60	141.0	700.0	4	28.0	204.3	325	Call Factory	Call Factory	Call Factory	Call Factory
C*400BM6	460/3/60	70.5	350.0	4	14.0	102.1	150	Call Factory	Call Factory	Call Factory	Call Factory
C*500BM6	208-230/3/60	143.6	950.0	4	28.0	207.5	350	Call Factory	Call Factory	Call Factory	Call Factory
C*500BM6	460/3/60	71.8	425.0	4	14.0	103.8	175	Call Factory	Call Factory	Call Factory	Call Factory
Low Temperature (R-404A/507)											
C*130BL6	208-230/3/60	43.6	294.0	2	9.6	64.1	100	Call Factory	Call Factory	Call Factory	Call Factory
C*130BL6	460/3/60	21.8	147.0	2	4.8	32.1	50	Call Factory	Call Factory	Call Factory	Call Factory
C*150BL6	208-230/3/60	46.2	294.0	2	9.6	67.4	110	Call Factory	Call Factory	Call Factory	Call Factory
C*150BL6	460/3/60	23.1	147.0	2	4.8	33.7	50	Call Factory	Call Factory	Call Factory	Call Factory
C*200BL6	208-230/3/60	57.7	352.0	2	9.6	81.7	125	Call Factory	Call Factory	Call Factory	Call Factory
C*200BL6	460/3/60	28.8	176.0	2	4.8	40.8	70	Call Factory	Call Factory	Call Factory	Call Factory
C*220BL6	208-230/3/60	65.4	436.0	2	14.0	95.8	150	Call Factory	Call Factory	Call Factory	Call Factory
C*220BL6	460/3/60	32.7	218.0	2	7.0	47.9	80	Call Factory	Call Factory	Call Factory	Call Factory
C*250BL6	208-230/3/60	69.2	436.0	2	14.0	100.5	150	Call Factory	Call Factory	Call Factory	Call Factory
C*250BL6	460/3/60	34.6	218.0	2	7.0	50.3	80	Call Factory	Call Factory	Call Factory	Call Factory
C*300BL6	208-230/3/60	84.6	490.0	2	14.0	119.8	200	Call Factory	Call Factory	Call Factory	Call Factory
C*300BL6	460/3/60	42.3	245.0	2	7.0	59.9	100	Call Factory	Call Factory	Call Factory	Call Factory
C*400BL6	208-230/3/60	97.4	700.0	3	21.0	142.8	225	Call Factory	Call Factory	Call Factory	Call Factory
C*400BL6	460/3/60	48.7	350.0	3	10.5	71.4	110	Call Factory	Call Factory	Call Factory	Call Factory

Notes:

Consult factory for 50 HZ applications.

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

An evaporator heater hold out relay (option) is recommended when two or more evaporators are connected to a single condensing unit to allow termination on coils that have already defrosted to prevent unnecessary steaming. This option is not needed on Beacon II™ systems wired for a Master / Slave operation. Power is brought to each Beacon II™ evaporator. Each coil terminates its own defrost. Refrigeration will not start until all coils have terminated defrost.

24 - 80 HP Dual Compressor

Overview



Product Description:

The 24-80 HP Dual Vertical condensing unit is designed to meet the needs of a demanding commercial and industrial refrigeration market. The product is configured to be flexible in its design and construction to allow it to respond to the requirements of refrigeration contractors, consulting engineers and facility owners/operators. The Floating Tube™ coil design incorporated in the product provides protection against tube sheet leaks.

Opting for the Beacon II™ refrigeration system with Smart Defrost, factory installed Smart Defrost Kit™ (SDK) or Variable Speed EC motors increases this product's energy efficiency and qualifies it for the **E Solutions™** product portfolio.

Certifications



Cabinet & Construction

- All units feature the Floating Tube™ coil which eliminates tube sheet leaks
- Painted steel cabinets for superior strength and corrosion resistance
- Available in standard or parallel piped configurations

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access

Quality

- Sight glass is easily viewable
- Fixed high pressure switch eliminates capillary tubes
- Refrigeration duty, rifled copper tubing
- Piping is pre-bent to eliminate braze joints, where possible, to reduce leak potential
- All joints are sweat type connections, no mechanical joints to leak
- Separate sub-cooling circuit in condenser for added capacity and vapor free liquid
- Pressure relief valve on receiver
- ServiceMate™ diagnostic module standard on all non-Beacon II™ condensing unit

Components

Compressor

- Spring-mounted compressors with suction and discharge eliminators
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves

Other

- Sight glass and permanent liquid line filter

Nomenclature

CDD	2400	L	6	C	PP
Model	Equiv. HP	Operating Range	Refrigerant	Voltage	Pipes
CDD=Adjustable Head Pressure Control	2400 = 24HP 3000 = 30HP	L = Low M = Medium	6 = R-404A/507, or R-22	C = 208-230/3/60 D = 460/3/60 K = 230/3/60	PP = Parallel Piped* No "PP" = Standard Piped
CDDS = Beacon II™ vertical discharge	4000 = 40HP 4400 = 44HP 5000 = 50HP 5400 = 54HP 6000 = 60HP 7000 = 70HP 8000 = 80HP				

* Not available with Beacon II™ System

24 - 80 HP Dual Compressor

Performance Data

Models with Discus Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™.
L6 models require the demand cooling option for R-22 operation.

Climate Control Base Model	Compressor (2 Each)	Suction Temp. °F	Capacity (BTUH)	
			Ambient Temperature °F	
			95°F	
Medium Temperature (R-404A/507)				
C*3000M6	3DS3R17ME	30°F	304,200	
C*3000M6	3DS3R17ME	25°F	282,800	
C*3000M6	3DS3R17ME	20°F	259,800	
C*3000M6	3DS3R17ME	15°F	237,400	
C*3000M6	3DS3R17ME	10°F	218,400	
C*3000M6	3DS3R17ME	5°F	197,400	
C*3000M6	3DS3R17ME	0°F	177,000	
C*3000M6	3DS3R17ME	-5°F	157,800	
C*3000M6	3DS3R17ME	-10°F	139,800	
C*4000M6	4DBNR20ME	30°F	383,600	
C*4000M6	4DBNR20ME	25°F	351,800	
C*4000M6	4DBNR20ME	20°F	321,400	
C*4000M6	4DBNR20ME	15°F	292,200	
C*4000M6	4DBNR20ME	10°F	263,400	
C*4000M6	4DBNR20ME	5°F	-	
C*4000M6	4DBNR20ME	0°F	212,200	
C*4000M6	4DBNR20ME	-5°F	190,600	
C*4000M6	4DBNR20ME	-10°F	172,200	
C*5000M6	4DHNR22ME	30°F	-	
C*5000M6	4DHNR22ME	25°F	370,800	
C*5000M6	4DHNR22ME	20°F	339,000	
C*5000M6	4DHNR22ME	15°F	308,000	
C*5000M6	4DHNR22ME	10°F	282,000	
C*5000M6	4DHNR22ME	5°F	256,400	
C*5000M6	4DHNR22ME	0°F	230,400	
C*5000M6	4DHNR22ME	-5°F	208,400	
C*5000M6	4DHNR22ME	-10°F	189,400	
C*5200M6	4DHNR22ME	30°F	415,800	
C*5200M6	4DHNR22ME	25°F	381,600	
C*5200M6	4DHNR22ME	20°F	348,200	
C*5200M6	4DHNR22ME	15°F	315,800	
C*5200M6	4DHNR22ME	10°F	293,000	
C*5200M6	4DHNR22ME	5°F	264,200	
C*5200M6	4DHNR22ME	0°F	237,800	
C*5200M6	4DHNR22ME	-5°F	214,400	
C*5200M6	4DHNR22ME	-10°F	194,400	
C*6000M6	4DJNR28ME	30°F	500,200	
C*6000M6	4DJNR28ME	25°F	459,800	
C*6000M6	4DJNR28ME	20°F	421,800	
C*6000M6	4DJNR28ME	15°F	383,600	
C*6000M6	4DJNR28ME	10°F	351,000	
C*6000M6	4DJNR28ME	5°F	315,800	
C*6000M6	4DJNR28ME	0°F	282,200	
C*6000M6	4DJNR28ME	-5°F	250,400	
C*6000M6	4DJNR28ME	-10°F	221,400	
C*7000M6	6DHNR35ME	30°F	631,200	

Climate Control Base Model	Compressor (2 Each)	Suction Temp. °F	Capacity (BTUH)	
			Ambient Temperature °F	
			95°F	
C*7000M6	6DHNR35ME	25°F	585,200	
C*7000M6	6DHNR35ME	20°F	537,000	
C*7000M6	6DHNR35ME	15°F	488,200	
C*7000M6	6DHNR35ME	10°F	447,800	
C*7000M6	6DHNR35ME	5°F	403,400	
C*7000M6	6DHNR35ME	0°F	360,600	
C*7000M6	6DHNR35ME	-5°F	320,000	
C*7000M6	6DHNR35ME	-10°F	282,600	
C*8000M6	6DJNR40ME	30°F	729,800	
C*8000M6	6DJNR40ME	25°F	677,200	
C*8000M6	6DJNR40ME	20°F	621,200	
C*8000M6	6DJNR40ME	15°F	567,800	
C*8000M6	6DJNR40ME	10°F	522,200	
C*8000M6	6DJNR40ME	5°F	472,600	
C*8000M6	6DJNR40ME	0°F	425,000	
C*8000M6	6DJNR40ME	-5°F	380,400	
C*8000M6	6DJNR40ME	-10°F	339,200	
Low Temperature (R-404A/507)				
C*2400L6	4DANF54KE	0°F	194,200	
C*2400L6	4DANF54KE	-10°F	156,800	
C*2400L6	4DANF54KE	-15°F	140,000	
C*2400L6	4DANF54KE	-20°F	124,200	
C*2400L6	4DANF54KE	-25°F	-	
C*2400L6	4DANF54KE	-30°F	94,600	
C*2400L6	4DANF54KE	-40°F	66,000	
C*3000L6	4DLNF63KE	0°F	210,600	
C*3000L6	4DLNF63KE	-10°F	176,200	
C*3000L6	4DLNF63KE	-15°F	158,800	
C*3000L6	4DLNF63KE	-20°F	141,800	
C*3000L6	4DLNF63KE	-25°F	125,600	
C*3000L6	4DLNF63KE	-30°F	110,200	
C*3000L6	4DLNF63KE	-40°F	83,000	
C*4400L6	4DTNF76KE	0°F	248,400	
C*4400L6	4DTNF76KE	-10°F	208,600	
C*4400L6	4DTNF76KE	-15°F	188,400	
C*4400L6	4DTNF76KE	-20°F	168,400	
C*4400L6	4DTNF76KE	-25°F	149,400	
C*4400L6	4DTNF76KE	-30°F	130,600	
C*4400L6	4DTNF76KE	-40°F	96,200	
C*5400L6	6DLNF93KE	0°F	316,200	
C*5400L6	6DLNF93KE	-10°F	261,800	
C*5400L6	6DLNF93KE	-15°F	236,200	
C*5400L6	6DLNF93KE	-20°F	209,600	
C*5400L6	6DLNF93KE	-25°F	184,200	
C*5400L6	6DLNF93KE	-30°F	160,400	
C*5400L6	6DLNF93KE	-40°F	118,400	
C*6000L6	6DTNF11KE	0°F	357,800	

Air-Cooled Condensing Units



24 - 80 HP Dual Compressor

Performance Data

Models with Discus Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™.
L6 models require the demand cooling option for R-22 operation.

Climate Control Base Model	Compressor (2 Each)	Suction Temp. °F	Capacity (BTUH)	
			Ambient Temperature °F	
			95°F	
C*6000L6	6DTNF11KE	-10°F	294,400	
C*6000L6	6DTNF11KE	-15°F	265,200	
C*6000L6	6DTNF11KE	-20°F	235,400	
C*6000L6	6DTNF11KE	-25°F	207,000	
C*6000L6	6DTNF11KE	-30°F	180,600	
C*6000L6	6DTNF11KE	-40°F	135,200	
Medium Temperature (R-22)				
C*3000M6	3DS3R17ME	40°F	351,000	
C*3000M6	3DS3R17ME	35°F	321,800	
C*3000M6	3DS3R17ME	30°F	294,000	
C*3000M6	3DS3R17ME	25°F	267,000	
C*3000M6	3DS3R17ME	20°F	240,800	
C*3000M6	3DS3R17ME	15°F	215,800	
C*3000M6	3DS3R17ME	10°F	-	
C*4000M6	4DBNR20ME	40°F	450,200	
C*4000M6	4DBNR20ME	35°F	410,800	
C*4000M6	4DBNR20ME	30°F	373,000	
C*4000M6	4DBNR20ME	25°F	336,800	
C*4000M6	4DBNR20ME	20°F	302,800	
C*4000M6	4DBNR20ME	15°F	270,400	
C*4000M6	4DBNR20ME	10°F	-	
C*5000M6	4DHNR22ME	40°F	-	
C*5000M6	4DHNR22ME	35°F	-	
C*5000M6	4DHNR22ME	30°F	-	
C*5000M6	4DHNR22ME	25°F	365,800	
C*5000M6	4DHNR22ME	20°F	329,600	
C*5000M6	4DHNR22ME	15°F	294,400	
C*5000M6	4DHNR22ME	10°F	-	
C*5200M6	4DHNR22ME	40°F	489,800	
C*5200M6	4DHNR22ME	35°F	450,600	
C*5200M6	4DHNR22ME	30°F	411,800	
C*5200M6	4DHNR22ME	25°F	373,600	
C*5200M6	4DHNR22ME	20°F	336,200	
C*5200M6	4DHNR22ME	15°F	299,800	
C*5200M6	4DHNR22ME	10°F	-	
C*6000M6	4DJNR28ME	40°F	577,800	
C*6000M6	4DJNR28ME	35°F	531,000	
C*6000M6	4DJNR28ME	30°F	485,200	
C*6000M6	4DJNR28ME	25°F	439,800	
C*6000M6	4DJNR28ME	20°F	396,000	
C*6000M6	4DJNR28ME	15°F	353,000	
C*6000M6	4DJNR28ME	10°F	-	
C*7000M6	6DHNR35ME	40°F	744,200	
C*7000M6	6DHNR35ME	35°F	681,200	
C*7000M6	6DHNR35ME	30°F	621,600	
C*7000M6	6DHNR35ME	25°F	563,200	

Climate Control Base Model	Compressor (2 Each)	Suction Temp. °F	Capacity (BTUH)	
			Ambient Temperature °F	
			95°F	
C*7000M6	6DHNR35ME	20°F	507,400	
C*7000M6	6DHNR35ME	15°F	454,600	
C*7000M6	6DHNR35ME	10°F	-	
C*8000M6	6DJNR40ME	40°F	846,400	
C*8000M6	6DJNR40ME	35°F	778,000	
C*8000M6	6DJNR40ME	30°F	714,400	
C*8000M6	6DJNR40ME	25°F	652,600	
C*8000M6	6DJNR40ME	20°F	592,200	
C*8000M6	6DJNR40ME	15°F	534,400	
C*8000M6	6DJNR40ME	10°F	-	
Low Temperature (R-22)				
C*2400L6	4DBNF54KE	0°F	185,400	
C*2400L6	4DBNF54KE	-10°F	141,800	
C*2400L6	4DBNF54KE	-15°F	122,400	
C*2400L6	4DBNF54KE	-20°F	104,800	
C*2400L6	4DBNF54KE	-25°F	-	
C*2400L6	4DBNF54KE	-30°F	73,400	
C*2400L6	4DBNF54KE	-40°F	47,000	
C*3000L6	4DLNF63KE	0°F	200,200	
C*3000L6	4DLNF63KE	-10°F	158,400	
C*3000L6	4DLNF63KE	-15°F	138,200	
C*3000L6	4DLNF63KE	-20°F	120,600	
C*3000L6	4DLNF63KE	-25°F	103,800	
C*3000L6	4DLNF63KE	-30°F	87,600	
C*3000L6	4DLNF63KE	-40°F	60,400	
C*4400L6	4DTNF76KE	0°F	238,200	
C*4400L6	4DTNF76KE	-10°F	187,800	
C*4400L6	4DTNF76KE	-15°F	164,800	
C*4400L6	4DTNF76KE	-20°F	143,200	
C*4400L6	4DTNF76KE	-25°F	123,200	
C*4400L6	4DTNF76KE	-30°F	105,800	
C*4400L6	4DTNF76KE	-40°F	75,000	
C*5400L6	6DLNF93KE	0°F	294,000	
C*5400L6	6DLNF93KE	-10°F	232,200	
C*5400L6	6DLNF93KE	-15°F	204,200	
C*5400L6	6DLNF93KE	-20°F	177,600	
C*5400L6	6DLNF93KE	-25°F	153,600	
C*5400L6	6DLNF93KE	-30°F	129,600	
C*5400L6	6DLNF93KE	-40°F	90,000	
C*6000L6	6DTNF11KE	0°F	349,400	
C*6000L6	6DTNF11KE	-10°F	277,000	
C*6000L6	6DTNF11KE	-15°F	243,600	
C*6000L6	6DTNF11KE	-20°F	212,200	
C*6000L6	6DTNF11KE	-25°F	183,800	
C*6000L6	6DTNF11KE	-30°F	156,200	
C*6000L6	6DTNF11KE	-40°F	110,800	

24 - 80 HP Dual Compressor

Unit Specifications

Models with Discus Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™

Climate Control Base Model	Compressor (2 Each)	Connections (in.) Standard (2 Each)		Connections (in.) Parallel Piped		Receiver 90% Full (lbs.)		Dimensions			Approx. Net Weight (lbs.)
		Liquid (OD)	Suction (OD)	Liquid (OD) Parallel Piped	Suction (OD) Parallel Piped	Standard	Parallel Piped	Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)											
C*3000M6	3D3NR17ME	7/8	1 5/8	1 1/8	2 1/8	123.0	188.0	87 3/43	144	55 3/5	3,160
C*4000M6	4DBNR20ME	7/8	2 1/8	1 1/8	2.625	123.0	188.0	87 3/43	144	55 3/5	3,160
C*5000M6	4DHNR22ME	1 1/8	2 1/8	1 3/8	2 5/8	123.0	269.0	87 3/43	144	55 3/5	3,230
C*5200M6	4DHNR22ME	1 1/8	2 1/8	1 3/8	2 5/8	123.0	269.0	87 3/43	171	55 3/5	3,520
C*6000M6	4DJNR28ME	1 1/8	2 1/8	1 3/8	2 5/8	188.0	269.0	87 3/43	171	55 3/5	3,720
C*7000M6	6DHNR35ME	1 1/8	2 1/8	1 5/8	3 1/8	188.0	363.0	87 3/43	226	55 3/5	4,320
C*8000M6	6DJNR40ME	1 1/8	2 1/8	1 5/8	3 1/8	188.0	363.0	87 3/43	226	55 3/5	4,760
Low Temperature (R-404A/507)											
C*2400L6	4DBNF54KE	7/8	1 5/8	1 1/8	2 1/8	81.0	188.0	87 3/43	144	55 3/5	3,000
C*3000L6	4DLNF63KE	7/8	1 5/8	1 1/8	2 5/8	81.0	188.0	87 3/43	144	55 3/5	3,000
C*4400L6	4DTNF76KE	7/8	2 1/8	1 1/8	2 5/8	81.0	188.0	87 3/43	144	55 3/5	3,000
C*5400L6	6DLNF93KE	1 1/8	2 1/8	1 3/8	3 1/8	123.0	269.0	87 3/43	171	55 3/5	3,770
C*6000L6	6DTNF11KE	1 1/8	2 1/8	1 3/8	3 1/8	123.0	269.0	87 3/43	171	55 3/5	3,770
Medium Temperature (R-22)											
C*3000M6	3DS3R17ME	7/8	1 5/8	1 1/8	2 1/8	142.0	216.0	87 3/43	144	55 3/5	3,160
C*4000M6	4DBNR20ME	7/8	2 1/8	1 1/8	2 1/8	142.0	216.0	87 3/43	144	55 3/5	3,160
C*5000M6	4DHNR22ME	1 1/8	2 1/8	1 3/8	2 5/8	142.0	309.0	87 3/43	144	55 3/5	3,230
C*5200M6	4DHNR22ME	1 1/8	2 1/8	1 3/8	2 5/8	142.0	309.0	87 3/43	171	55 3/5	3,520
C*6000M6	4DJNR28ME	1 1/8	2 1/8	1 3/8	2 5/8	216.0	309.0	87 3/43	171	55 3/5	3,720
C*7000M6	6DHNR35ME	1 1/8	2 1/8	1 5/8	3 1/8	216.0	416.0	87 3/43	226	55 3/5	4,320
C*8000M6	6DJNR40ME	1 1/8	2 1/8	1 5/8	3 1/8	216.0	416.0	87 3/43	226	55 3/5	4,760
Low Temperature (R-22)											
C*2400L6	4DBNF54KE	7/8	1 5/8	1 1/8	2 1/8	93.0	216.0	87 3/43	144	55 3/5	3,000
C*3000L6	4DLNF63KE	7/8	1 5/8	1 1/8	2 5/8	93.0	216.0	87 3/43	144	55 3/5	3,000
C*4400L6	4DTNF76KE	7/8	2 1/8	1 1/8	2 5/8	93.0	216.0	87 3/43	144	55 3/5	3,000
C*5400L6	6DLNF93KE	1 1/8	2 1/8	1 3/8	3 1/8	142.0	309.0	87 3/43	171	55 3/5	3,770
C*6000L6	6DTNF11KE	1 1/8	2 1/8	1 3/8	3 1/8	142.0	309.0	87 3/43	171	55 3/5	3,770

Air-Cooled Condensing Units



24 - 80 HP Dual Compressor

Electrical Data

Models with Discus Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™
Evap Fans and Elec Htrs loads are shown per compressor circuit.

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost Kit			
		RLA	LRA	Qty	Dia.	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs
System with One Evaporator per Compressor Circuit												
C*2400L6	208-230/3/60	46.0	220.0	4	26	16.0	119.5	150	138.0	175	15	48.0
C*2400L6	460/3/60	23.0	110.0	4	26	8.0	59.8	80	74.0	100	10	24.0
C*3000L6	208-230/3/60	47.2	278.0	4	26	16.0	122.2	150	152.2	175	15	48.0
C*3000L6	460/3/60	23.6	139.0	4	26	8.0	61.1	80	91.1	110	15	40.0
C*3000M6	208-230/3/60	59.6	275.0	4	26	16.0	136.4	175	195.9	225	25	96.0
C*3000M6	460/3/60	29.0	138.0	4	26	8.0	66.6	90	99.5	125	15	48.0
C*4000M6	208-230/3/60	64.7	374.0	4	26	16.0	161.6	225	198.7	250	20	96.0
C*4000M6	460/3/60	32.4	187.0	4	26	8.0	80.9	110	105.2	125	15	48.0
C*4400L6	208-230/3/60	57.7	374.0	4	26	16.0	145.8	200	175.8	225	15	48.0
C*4400L6	460/3/60	28.8	187.0	4	26	8.0	72.9	100	103.1	125	15	48.0
C*5000M6	208-230/3/60	66.8	428.0	4	26	16.0	181.9	250	-	-	-	-
C*5000M6	460/3/60	33.4	214.0	4	26	8.0	90.9	125	136.4	150	15	68.2
C*5200M6	208-230/3/60	66.8	428.0	4	30	28.0	193.9	250	-	-	-	-
C*5200M6	460/3/60	33.4	214.0	4	30	14.0	96.9	125	136.4	150	15	68.2
C*5400L6	208-230/3/60	72.4	450.0	4	26	16.0	179.0	250	219.0	250	20	96.0
C*5400L6	460/3/60	36.2	225.0	4	26	8.0	89.5	125	119.5	150	15	48.0
C*6000L6	208-230/3/60	85.8	470.0	4	30	28.0	221.0	300	261.0	300	20	96.0
C*6000L6	460/3/60	42.9	235.0	4	30	14.0	110.5	150	140.5	175	15	48.0
C*6000M6	208-230/3/60	94.6	470.0	4	30	28.0	240.9	300	-	-	-	-
C*6000M6	460/3/60	47.3	235.0	4	30	14.0	120.4	150	156.7	175	20	77.0
C*7000M6	208-230/3/60	112.3	565.0	6	30	42.0	319.4	400	-	-	-	-
C*7000M6	460/3/60	56.2	283.0	6	30	21.0	159.8	200	174.6	200	20	84.0
C*8000M6	208-230/3/60	128.2	594.0	6	30	42.0	330.5	450	-	-	-	-
C*8000M6	460/3/60	64.1	297.0	6	30	21.0	165.2	225	205.8	250	20	96.0
System with Two Evaporators per Compressor Circuit												
C*2400L6	208-230/3/60	46.0	220.0	4	26	16.0	119.5	150	152.0	175	22	64.0
C*2400L6	460/3/60	23.0	110.0	4	26	8.0	59.8	80	84.0	100	15	38.0
C*3000L6	208-230/3/60	47.2	278.0	4	26	16.0	122.2	150	175.0	200	25	83.0
C*3000L6	460/3/60	23.6	139.0	4	26	8.0	61.1	80	96.5	110	15	48.0
C*3000M6	208-230/3/60	59.6	275.0	4	26	16.0	136.4	175	195.9	225	25	96.0
C*3000M6	460/3/60	29.0	138.0	4	26	8.0	66.6	90	113.6	125	15	56.8
C*4000M6	208-230/3/60	64.7	374.0	4	26	16.0	161.6	225	216.0	250	25	108.0
C*4000M6	460/3/60	32.4	187.0	4	26	8.0	80.9	110	113.6	125	15	56.8
C*4400L6	208-230/3/60	57.7	374.0	4	26	16.0	145.8	200	210.1	250	25	105.0
C*4400L6	460/3/60	28.8	187.0	4	26	8.0	72.9	100	113.6	125	15	56.8

Notes:

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

24 - 80 HP Dual Compressor

Electrical Data

Models with Discus Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™
Evap Fans and Elec Htrs loads are shown per compressor circuit.

Climate Control Base Model	Voltage	Compressor		Fan Motor			Beacon II or Air Defrost		Electric Defrost Kit			
		RLA	LRA	Qty	Dia.	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs
C*5000M6	208-230/3/60	66.8	428.0	4	26	16.0	181.9	250	272.7	300	30	136.4
C*5000M6	460/3/60	33.4	214.0	4	26	8.0	90.9	125	137.1	150	20	67.0
C*5200M6	208-230/3/60	66.8	428.0	4	30	28.0	193.9	250	272.7	300	30	136.4
C*5200M6	460/3/60	33.4	214.0	4	30	14.0	96.9	125	159.1	175	20	79.5
C*5400L6	208-230/3/60	72.4	450.0	4	26	16.0	179.0	250	229.5	300	25	106.0
C*5400L6	460/3/60	36.2	225.0	4	26	8.0	89.5	125	128.3	150	15	64.0
C*6000L6	208-230/3/60	85.8	470.0	4	30	28.0	221.0	300	318.2	350	30	159.1
C*6000L6	460/3/60	42.9	235.0	4	30	14.0	110.5	150	156.6	175	20	76.0
C*6000M6	208-230/3/60	94.6	470.0	4	30	28.0	240.9	300	-	-	-	-
C*6000M6	460/3/60	47.3	235.0	4	30	14.0	120.4	150	156.7	175	20	77.0
C*7000M6	208-230/3/60	112.3	565.0	6	30	42.0	319.4	400	-	-	-	-
C*7000M6	460/3/60	56.2	283.0	6	30	21.0	159.8	200	174.6	200	20	84.0
C*8000M6	208-230/3/60	128.2	594.0	6	30	42.0	330.5	450	-	-	-	-
C*8000M6	460/3/60	64.1	297.0	6	30	21.0	165.2	225	205.8	250	20	96.0

Notes:

MCA = Minimum Circuit Ampacity

MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

26 - 100 HP Dual Compressor

Overview



Product Description:

The 26-100 HP Dual Vertical condensing unit product line with Bitzer® compressors is designed to meet the needs of a demanding commercial and industrial refrigeration market. The product is configured to be flexible in its design and construction to allow it to respond to the requirements of refrigeration contractors, consulting engineers and facility owners/operators. The Floating Tube™ coil design incorporated in the product provides protection against tube sheet leaks.

Opting for the Beacon II™ refrigeration system Smart Defrost, factory installed Smart Defrost Kit™ (SDK) or Variable Speed EC motors increases this product's energy efficiency and qualifies it for the **E Solutions™** product portfolio.

Certifications



Cabinet & Construction

- All units feature the Floating Tube™ coil which eliminates tube sheet leaks
- Painted steel cabinets for superior strength and corrosion resistance

Serviceability

- Manual pumpdown switch on all units
- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access

Quality

- Sight glass is easily viewable
- Fixed high pressure switch eliminates capillary tubes
- Refrigeration duty, rifled copper condenser tubing
- Piping is pre-bent to eliminate braze joints, where possible, to reduce leak potential
- All joints are sweat type connections, no mechanical joints to leak
- Separate sub-cooling circuit in condenser for added capacity and vapor free liquid
- Pressure relief valve on receiver
- ServiceMate™ diagnostic module standard on all non-Beacon II™ condensing unit

Components

Compressor

- Units feature Bitzer® semi-hermetic compressors.
- Spring-mounted compressors with suction and discharge eliminators
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves

Other

- Sealed sight glass and liquid line filter

Nomenclature

C	D	D	260B	L	6	C
Model	Head Pressure Control	Airflow	Equiv. HP	Operating Range	Refrigerant	Voltage
C = Climate Control	D = Adjustable Head Pressure Control	D = Vertical DS = Vertical Beacon II™	260B = 26HP 300B = 30HP 400B = 40HP 440B = 44HP 500B = 50HP 600B = 60HP 660B = 66HP 700B = 70HP 800B = 80HP 1100 = 100HP	L = Low M = Medium	6 = R-404A/507	C = 208-230/3/60 D = 460/3/60

Air-Cooled Condensing Units



26 - 100 HP Dual Compressor

Unit Specifications

Models with Bitzer Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™

Climate Control Base Model	Compressor (2 Each)	Connections (in) Standard (2 Each)		Connections (in) Parallel Piped		Receiver 90% Full (lbs.)		Dimensions			Approx. Net Weight (lbs.)
		Liquid (OD)	Suction (OD)	Liquid (OD) Parallel Piped	Suction (OD) Parallel Piped	Standard	Parallel Piped	Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)											
C*300BM6	4C2067PH	7/8	1 5/8	1 1/8	2 1/8	123.0	188.0	87 3/43	144	55 3/5	2,805
C*400BM6	4C2397PH	7/8	1 5/8	1 1/8	2 1/8	123.0	188.0	87 3/43	171	55 3/5	3,250
C*440BM6	4B2707PH	1 1/8	2 1/8	1 1/8	2 1/8	123.0	269.0	87 3/43	171	55 3/5	3,380
C*500BM6	4B3139PH	1 1/8	2 1/8	1 3/8	2 5/8	123.0	269.0	87 3/43	171	55 3/5	3,875
C*600BM6	4B3604PH	1 1/8	2 1/8	1 3/8	2 5/8	188.0	269.0	87 3/43	226	55 3/5	3,225
C*660BM6	6B4060PH	1 1/8	2 1/8	1 3/8	2 5/8	188.0	269.0	87 3/43	226	55 3/5	3,570
C*700BM6	6B4709PH	1 1/8	2 1/8	1 5/8	3 1/8	188.0	363.0	87 3/43	226	55 3/5	3,770
C*800BM6	6B5406PH	1 1/8	2 1/8	1 5/8	3 1/8	188.0	363.0	87 3/43	281	55 3/5	4,880
C*110BM6	6B6462PH	1 1/8	2 1/8	1 5/8	3 1/8	188.0	363.0	87 3/43	281	55 3/5	5,670
Low Temperature (R-404A/507)											
C*260BL6	4B2707PL	7/8	1 5/8	1 1/8	2 1/8	81.0	188.0	87 3/43	144	55 3/5	3,175
C*300BL6	4B3139PL	7/8	1 5/8	1 1/8	2 5/8	81.0	188.0	87 3/43	144	55 3/5	3,605
C*400BL6	4B3604PL	7/8	2 1/8	1 1/8	2 5/8	81.0	188.0	87 3/43	144	55 3/5	3,735
C*440BL6	6B4060PL	7/8	2 1/8	1 3/8	3 1/8	123.0	269.0	87 3/43	171	55 3/5	4,145
C*500BL6	6B4709PL	1 1/8	2 1/8	1 3/8	3 1/8	123.0	269.0	87 3/43	171	55 3/5	4,240
C*600BL6	6B5406PL	1 1/8	2 1/8	1 3/8	3 1/8	123.0	269.0	87 3/43	171	55 3/5	4,355
C*800BL6	6B6462PL	1 1/8	2 1/8	1 3/8	3 1/8	188.0	363.0	87 3/43	226	55 3/5	3,835

26 - 100 HP Dual Compressor

Electrical Data

Models with Bitzer Compressors

* = DD for Adjustable Head Pressure Control, DDS for Beacon II™

Condensing unit data plate ratings for electric defrost applications will be based on actual system match. Contact your local Sales Representative or Account Engineer for assistance.

Climate Control Base Model	Voltage	Compressor		Fan Motor		Beacon II or Air Defrost		Electric Defrost Kit Amps			
		RLA	LRA	Qty	FLA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs
Medium Temperature (R-404A/507)											
C*300BM6	208-230/3/60	48.7	294.0	4	19.2	128.8	175	Call Factory	Call Factory	Call Factory	Call Factory
C*300BM6	460/3/60	24.4	147.0	4	9.6	64.5	80	Call Factory	Call Factory	Call Factory	Call Factory
C*400BM6	208-230/3/60	57.7	352.0	4	28.0	157.8	200	Call Factory	Call Factory	Call Factory	Call Factory
C*400BM6	460/3/60	28.8	176.0	4	14.0	78.8	100	Call Factory	Call Factory	Call Factory	Call Factory
C*440BM6	208-230/3/60	61.5	352.0	4	28.0	166.4	225	Call Factory	Call Factory	Call Factory	Call Factory
C*440BM6	460/3/60	30.8	176.0	4	14.0	83.3	110	Call Factory	Call Factory	Call Factory	Call Factory
C*500BM6	208-230/3/60	75.6	436.0	4	28.0	198.1	250	Call Factory	Call Factory	Call Factory	Call Factory
C*500BM6	460/3/60	37.8	218.0	4	14.0	99.1	125	Call Factory	Call Factory	Call Factory	Call Factory
C*600BM6	208-230/3/60	89.7	490.0	6	42.0	243.8	325	Call Factory	Call Factory	Call Factory	Call Factory
C*600BM6	460/3/60	44.9	245.0	6	21.0	122.0	150	Call Factory	Call Factory	Call Factory	Call Factory
C*660BM6	208-230/3/60	100.0	550.0	6	42.0	267.0	350	Call Factory	Call Factory	Call Factory	Call Factory
C*660BM6	460/3/60	50.0	275.0	6	21.0	133.5	175	Call Factory	Call Factory	Call Factory	Call Factory
C*700BM6	208-230/3/60	105.1	550.0	6	42.0	278.5	350	Call Factory	Call Factory	Call Factory	Call Factory
C*700BM6	460/3/60	52.6	275.0	6	21.0	139.4	175	Call Factory	Call Factory	Call Factory	Call Factory
C*800BM6	208-230/3/60	141.0	700.0	8	56.0	373.3	500	Call Factory	Call Factory	Call Factory	Call Factory
C*800BM6	460/3/60	70.5	350.0	8	28.0	186.6	250	Call Factory	Call Factory	Call Factory	Call Factory
C*110BM6	208-230/3/60	143.6	950.0	8	56.0	379.1	500	Call Factory	Call Factory	Call Factory	Call Factory
C*110BM6	460/3/60	71.8	425.0	8	28.0	189.6	250	Call Factory	Call Factory	Call Factory	Call Factory
Low Temperature (R-404A/507)											
C*260BL6	208-230/3/60	43.6	294.0	4	19.2	117.3	150	Call Factory	Call Factory	Call Factory	Call Factory
C*260BL6	460/3/60	21.8	147.0	4	9.6	58.7	80	Call Factory	Call Factory	Call Factory	Call Factory
C*300BL6	208-230/3/60	46.2	294.0	4	19.2	123.2	150	Call Factory	Call Factory	Call Factory	Call Factory
C*300BL6	460/3/60	23.1	147.0	4	9.6	61.6	80	Call Factory	Call Factory	Call Factory	Call Factory
C*400BL6	208-230/3/60	57.7	352.0	4	19.2	149.0	200	Call Factory	Call Factory	Call Factory	Call Factory
C*400BL6	460/3/60	28.8	176.0	4	9.6	74.4	100	Call Factory	Call Factory	Call Factory	Call Factory
C*440BL6	208-230/3/60	65.4	436.0	4	28.0	175.2	225	Call Factory	Call Factory	Call Factory	Call Factory
C*440BL6	460/3/60	32.7	218.0	4	14.0	87.6	110	Call Factory	Call Factory	Call Factory	Call Factory
C*500BL6	208-230/3/60	69.2	436.0	4	28.0	183.7	250	Call Factory	Call Factory	Call Factory	Call Factory
C*500BL6	460/3/60	34.6	218.0	4	14.0	91.9	125	Call Factory	Call Factory	Call Factory	Call Factory
C*600BL6	208-230/3/60	84.6	490.0	4	28.0	218.4	300	Call Factory	Call Factory	Call Factory	Call Factory
C*600BL6	460/3/60	42.3	245.0	4	14.0	109.2	150	Call Factory	Call Factory	Call Factory	Call Factory
C*800BL6	208-230/3/60	97.4	700.0	6	42.0	261.2	350	Call Factory	Call Factory	Call Factory	Call Factory
C*800BL6	460/3/60	48.7	350.0	6	21.0	130.6	175	Call Factory	Call Factory	Call Factory	Call Factory

Notes:

MCA = Minimum Circuit Ampacity
MOPD = Maximum Overcurrent Protection Device

Beacon II™ and Air Defrost Units do not carry any of the evaporator fan or heater loads. Power is brought directly to the evaporators and does not go through the condensing unit.

1/2 - 6 HP

Overview



Product Description:

The 1/2 through 6 HP water cooled condensing unit product line features hermetic and scroll® compressors. These condensing units' component selection, location, base and unit dimensions are all optimized for easy field replacement or installation in new applications where space is limited.

The electrical box is designed with extra space for easier servicing. The area is large enough to accommodate circuit breakers, compressor contactors, time clocks and all start components in one enclosure.

Standard features include: compressor isolation valves that enable service technicians to isolate the compressor for service and an oversized receiver which provides total refrigerant pump down. These products are ideal for units requiring long runs.

Certifications



Cabinet & Construction

- Component location and unit size are optimized for easy field replacement and space limited applications

Serviceability

- Large electrical box allows easy service and installation of additional components
- A pump-down switch is provided on all models for easy field servicing
- Color-coded wire harnesses are labeled and coded for easy identification
- Suction line rotolock service valve is provided on the compressor for service
- An additional shut-off valve is mounted in the discharge line of the compressor for quick and easy compressor isolation

Quality

- Sight glass (optional) is easily viewable
- Every unit is subjected to a helium leak test to ensure the unit is leak free
- Shipped with nitrogen holding charge to enable installer to verify unit is leak-free upon arrival
- Every unit is run-tested and cycled on both the high and low pressure controls
- All electrical circuits are also tested for functional integrity

Components

- Features Copeland hermetic and Scroll® compressors
- Compressors are mounted with vibration eliminating rubber grommets
- All units come standard with a water regulating valve for superior head pressure control
- Oversized receiver with liquid shut-off valve is provided for installations with long refrigerant lines

Nomenclature

ZW	N	010	L	6	B
Compressor	Application	Model Size	Operating Range	Refrigerant	Voltage
HW = Hermetic ZW = Scroll®	N = Indoor	005-060	H = High L = Low M = Medium X = Extended Temp.	2 = R-22 6 = R-404A/507	B = 208/230/1/60 C = 208-230/3/60 D = 460/3/60

1/2 - 6 HP

Performance Data

Models with Hermetic Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature for X6/L6/H2 models and 110°F Condensing Temperature for H6 models, 20°F ITD, 0°F Subcooling. (ITD = Condensing temperature – entering condenser water temperature)

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
High Temperature (R-404A/507)					
HWN005H6	RST45C1E	40°F	8,160	1.5	1.2
HWN005H6	RST45C1E	35°F	7,370	1.3	1.0
HWN009H6	RST64C1E	40°F	12,310	2.1	2.6
HWN009H6	RST64C1E	35°F	11,190	1.8	2.1
HWN010H6	RS70C1E	40°F	13,900	2.3	2.9
HWN010H6	RS70C1E	35°F	12,430	2.0	2.3
HWN015H6	CS10K6E	40°F	20,830	3.9	2.2
HWN015H6	CS10K6E	35°F	18,510	3.3	1.6
HWN025H6	CS14K6E	40°F	27,910	5.7	4.2
HWN025H6	CS14K6E	35°F	25,060	4.8	3.2
HWN032H6	CS20K6E	40°F	40,790	6.8	3.7
HWN032H6	CS20K6E	35°F	36,490	5.6	2.7
HWN040H6	CS27K6E	40°F	53,600	12.8	11.3
HWN040H6	CS27K6E	35°F	48,220	10.3	7.5
HWN050H6	CS33K6E	40°F	59,150	10.3	3.8
HWN050H6	CS33K6E	35°F	53,250	8.7	2.8
Extended Temperature (R-404A/507)					
HWN005X6	RST45C1E	30°F	6,480	1.6	1.4
HWN005X6	RST45C1E	20°F	5,270	1.2	0.9
HWN005X6	RST45C1E	10°F	4,220	0.9	0.5
HWN005X6	RST45C1E	0°F	3,290	0.7	0.3
HWN005X6	RST45C1E	-10°F	2,460	0.4	0.2
HWN005X6	RST45C1E	-20°F	1,665	0.2	0.2
HWN005X6	RST45C1E	-25°F	1,280	0.2	0.2
HWN008X6	RST55C1E	30°F	7,950	2.6	3.0
HWN008X6	RST55C1E	20°F	6,460	1.9	1.7
HWN008X6	RST55C1E	10°F	5,140	1.4	1.1
HWN008X6	RST55C1E	0°F	4,010	1.0	0.6
HWN008X6	RST55C1E	-10°F	3,070	0.7	0.4
HWN008X6	RST55C1E	-20°F	2,340	0.5	0.3
HWN008X6	RST55C1E	-25°F	2,060	0.4	0.2
HWN009X6	RST64C1E	30°F	9,620	2.4	3.2
HWN009X6	RST64C1E	20°F	7,870	1.8	2.1
HWN009X6	RST64C1E	10°F	6,320	1.4	1.3
HWN009X6	RST64C1E	0°F	4,970	0.9	0.7
HWN009X6	RST64C1E	-10°F	3,820	0.5	0.3
HWN009X6	RST64C1E	-20°F	2,880	0.2	0.2
HWN009X6	RST64C1E	-25°F	2,480	0.2	0.2
HWN010X6	RS70C1E	30°F	11,200	2.7	3.9
HWN010X6	RS70C1E	20°F	8,700	1.8	2.1
HWN010X6	RS70C1E	10°F	6,800	1.5	1.5
HWN010X6	RS70C1E	0°F	5,200	1.1	0.9
HWN010X6	RS70C1E	-10°F	3,770	0.4	0.3
HWN010X6	RS70C1E	-20°F	2,335	0.3	0.3
HWN010X6	RS70C1E	-25°F	1,600	0.3	0.3
HWN015X6	CS10K6E	30°F	16,300	4.8	3.1
HWN015X6	CS10K6E	20°F	12,900	3.3	1.6
HWN015X6	CS10K6E	10°F	9,710	2.3	0.9

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
HWN015X6	CS10K6E	0°F	6,930	1.5	0.5
HWN015X6	CS10K6E	-10°F	4,580	1.0	0.4
HWN015X6	CS10K6E	-20°F	2,815	0.8	0.3
HWN015X6	CS10K6E	-25°F	2,000	0.6	0.2
HWN020X6	CS12K6E	30°F	19,200	6.6	4.3
HWN020X6	CS12K6E	20°F	15,100	4.3	2.6
HWN020X6	CS12K6E	10°F	11,490	2.8	1.2
HWN020X6	CS12K6E	0°F	8,340	1.8	0.6
HWN020X6	CS12K6E	-10°F	5,670	1.6	0.5
HWN020X6	CS12K6E	-20°F	3,615	0.9	0.4
HWN020X6	CS12K6E	-25°F	2,650	0.8	0.4
HWN025X6	CS14K6E	30°F	21,800	7.2	6.6
HWN025X6	CS14K6E	20°F	17,500	4.7	4.2
HWN025X6	CS14K6E	10°F	13,630	3.2	1.7
HWN025X6	CS14K6E	0°F	10,140	1.8	0.8
HWN025X6	CS14K6E	-10°F	7,160	1.1	0.5
HWN025X6	CS14K6E	-20°F	4,900	0.5	0.2
HWN025X6	CS14K6E	-25°F	3,840	0.2	0.1
HWN030X6	CS18K6E	30°F	28,300	10.5	10.4
HWN030X6	CS18K6E	20°F	22,700	8.0	8.0
HWN030X6	CS18K6E	10°F	17,400	4.9	3.3
HWN030X6	CS18K6E	0°F	12,600	2.9	1.4
HWN030X6	CS18K6E	-10°F	8,570	1.5	0.6
HWN030X6	CS18K6E	-20°F	5,825	0.9	0.4
HWN030X6	CS18K6E	-25°F	4,590	0.5	0.2
HWN032X6	CS20K6E	30°F	34,000	9.5	6.6
HWN032X6	CS20K6E	20°F	25,600	5.0	2.2
HWN032X6	CS20K6E	10°F	19,220	2.6	1.1
HWN032X6	CS20K6E	0°F	14,210	1.8	0.8
HWN032X6	CS20K6E	-10°F	10,110	1.3	0.6
HWN032X6	CS20K6E	-20°F	6,505	0.8	0.4
HWN032X6	CS20K6E	-25°F	4,650	0.5	0.2
HWN040X6	CS27K6E	30°F	40,740	15.0	13.6
HWN040X6	CS27K6E	20°F	31,622	10.8	8.1
HWN040X6	CS27K6E	10°F	23,901	5.5	2.6
HWN040X6	CS27K6E	0°F	17,547	2.7	1.2
HWN040X6	CS27K6E	-10°F	12,406	1.8	0.8
HWN040X6	CS27K6E	-20°F	8,628	1.3	0.6
HWN040X6	CS27K6E	-25°F	6,819	0.8	0.4
HWN050X6	CS33K6E	30°F	48,684	13.6	6.2
HWN050X6	CS33K6E	20°F	37,733	9.0	3.0
HWN050X6	CS33K6E	10°F	28,838	6.2	1.6
HWN050X6	CS33K6E	0°F	21,505	4.5	1.0
HWN050X6	CS33K6E	-10°F	15,433	3.1	0.7
HWN050X6	CS33K6E	-20°F	10,515	2.1	0.1
HWN050X6	CS33K6E	-25°F	8,100	1.3	0.1
Low Temperature (R-404A/507)					
HWN011L6	CF04K6E	10°F	10,680	6.0	7.4
HWN011L6	CF04K6E	0°F	7,590	3.0	3.7

Water-Cooled Condensing Units



1/2 - 6 HP

Performance Data

Models with Hermetic Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature for X6/L6/H2 models and 110°F Condensing Temperature for H6 models, 20°F ITD, 0°F Subcooling. (ITD = Condensing temperature – entering condenser water temperature)

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
HWN011L6	CF04K6E	-10°F	5,310	1.6	1.4
HWN011L6	CF04K6E	-20°F	3,570	1.0	0.6
HWN011L6	CF04K6E	-25°F	2,810	0.7	0.4
HWN011L6	CF04K6E	-30°F	2,080	0.5	0.2
HWN014L6	CF06K6E	10°F	15,070	5.0	8.0
HWN014L6	CF06K6E	0°F	11,780	4.0	7.4
HWN014L6	CF06K6E	-10°F	8,700	2.5	3.4
HWN014L6	CF06K6E	-20°F	5,990	1.5	1.5
HWN014L6	CF06K6E	-25°F	4,810	1.3	1.2
HWN014L6	CF06K6E	-30°F	3,770	1.0	0.8
HWN025L6	CF09K6E	10°F	21,970	8.5	8.5
HWN025L6	CF09K6E	0°F	17,060	5.8	4.4
HWN025L6	CF09K6E	-10°F	12,590	3.5	2.0
HWN025L6	CF09K6E	-20°F	8,720	2.0	0.8
HWN025L6	CF09K6E	-25°F	7,040	1.5	0.6
HWN025L6	CF09K6E	-30°F	5,560	1.0	0.2
HWN031L6	CF12K6E	10°F	27,140	11.0	12.0
HWN031L6	CF12K6E	0°F	21,180	9.5	9.8
HWN031L6	CF12K6E	-10°F	16,060	5.75	4.4
HWN031L6	CF12K6E	-20°F	11,570	3.4	1.9
HWN031L6	CF12K6E	-25°F	9,510	2.5	1.2
HWN031L6	CF12K6E	-30°F	7,550	1.25	0.6
Medium & High Temperature (R-22)					
HWN005H2	RST45C1	40°F	8,760	3.0	2.7
HWN005H2	RST45C1	30°F	6,860	1.8	1.6
HWN005H2	RST45C1	20°F	5,390	1.3	1.0
HWN005H2	RST45C1	10°F	4,220	1.0	0.6
HWN005H2	RST45C1	0°F	3,220	0.7	0.4
HWN010H2	RST70C1	40°F	14,280	3.8	6.8
HWN010H2	RST70C1	30°F	11,350	2.7	4.1
HWN010H2	RST70C1	20°F	8,810	1.8	2.1
HWN010H2	RST70C1	10°F	6,600	1.3	1.2
HWN010H2	RST70C1	0°F	4,550	0.5	0.4
HWN015X6	CS10K6E	30°F	17,800	5.5	3.8
HWN015X6	CS10K6E	20°F	14,000	3.6	1.9
HWN015X6	CS10K6E	10°F	10,600	2.3	0.9
HWN015X6	CS10K6E	0°F	7,540	1.4	0.3
HWN015X6	CS10K6E	-10°F	Call Factory	Call Factory	Call Factory
HWN015X6	CS10K6E	-20°F	Call Factory	Call Factory	Call Factory
HWN015X6	CS10K6E	-25°F	Call Factory	Call Factory	Call Factory
HWN020X6	CS12K6E	30°F	19,300	6.1	4.4
HWN020X6	CS12K6E	20°F	15,400	4.2	2.5
HWN020X6	CS12K6E	10°F	11,700	2.8	1.1
HWN020X6	CS12K6E	0°F	8,210	1.6	0.5
HWN020X6	CS12K6E	-10°F	Call Factory	Call Factory	Call Factory

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
HWN020X6	CS12K6E	-20°F	Call Factory	Call Factory	Call Factory
HWN020X6	CS12K6E	-25°F	Call Factory	Call Factory	Call Factory
HWN025X6	CS14K6E	30°F	22,400	8.4	8.7
HWN025X6	CS14K6E	20°F	18,000	5.5	4.0
HWN025X6	CS14K6E	10°F	14,000	3.6	2.0
HWN025X6	CS14K6E	0°F	10,400	2.2	0.9
HWN030X6	CS18K6E	30°F	29,700	11.0	14.7
HWN030X6	CS18K6E	20°F	23,600	8.5	9.0
HWN030X6	CS18K6E	10°F	18,000	5.0	3.4
HWN030X6	CS18K6E	0°F	13,100	2.9	1.4
HWN030X6	CS18K6E	-10°F	Call Factory	Call Factory	Call Factory
HWN030X6	CS18K6E	-20°F	Call Factory	Call Factory	Call Factory
HWN030X6	CS18K6E	-25°F	Call Factory	Call Factory	Call Factory
HWN032X6	CS20K6E	30°F	35,300	9.9	6.9
HWN032X6	CS20K6E	20°F	26,800	5.1	2.3
HWN032X6	CS20K6E	10°F	20,300	5.0	2.2
HWN032X6	CS20K6E	0°F	15,300	5.0	2.2
HWN040X6	CS27K6E	30°F	43,500	14.0	13.6
HWN040X6	CS27K6E	20°F	33,160	9.8	6.9
HWN040X6	CS27K6E	10°F	24,830	5.1	2.3
HWN040X6	CS27K6E	0°F	18,220	5.0	2.2
HWN040X6	CS27K6E	-10°F	Call Factory	Call Factory	Call Factory
HWN040X6	CS27K6E	-20°F	Call Factory	Call Factory	Call Factory
HWN040X6	CS27K6E	-25°F	Call Factory	Call Factory	Call Factory
HWN050X6	CS33K6E	30°F	49,300	13.3	5.9
HWN050X6	CS33K6E	20°F	39,400	9.0	3.0
HWN050X6	CS33K6E	10°F	30,600	6.2	1.5
HWN050X6	CS33K6E	0°F	22,900	4.1	0.8
HWN050X6	CS33K6E	-10°F	Call Factory	Call Factory	Call Factory
HWN050X6	CS33K6E	-20°F	Call Factory	Call Factory	Call Factory
HWN050X6	CS33K6E	-25°F	Call Factory	Call Factory	Call Factory

Section 2

1/2 - 6 HP

Performance Data

Models with Scroll Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature, 20°F ITD, 0°F Subcooling. (ITD = Condensing temperature – entering condenser water temperature)

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
Extended Temperature (R-404A/507)					
ZWN030X6	ZS21K4E	40°F	35,200	10.8	8.4
ZWN030X6	ZS21K4E	30°F	29,310	6.8	3.7
ZWN030X6	ZS21K4E	20°F	24,110	4.4	1.8
ZWN030X6	ZS21K4E	10°F	19,740	2.7	1.2
ZWN030X6	ZS21K4E	0°F	16,070	2.0	0.9
ZWN030X6	ZS21K4E	-10°F	12,840	1.6	0.7
ZWN030X6	ZS21K4E	-20°F	10,230	1.3	0.6
ZWN030X6	ZS21K4E	-25°F	9,010	1.2	0.6
ZWN035X6	ZS26K4E	40°F	43,650	12	6.7
ZWN035X6	ZS26K4E	30°F	36,400	8.8	3.9
ZWN035X6	ZS26K4E	20°F	29,950	6.8	2.6
ZWN035X6	ZS26K4E	10°F	24,490	6.0	2.3
ZWN035X6	ZS26K4E	0°F	19,930	5.6	2.1
ZWN035X6	ZS26K4E	-10°F	15,910	5.2	1.9
ZWN035X6	ZS26K4E	-20°F	12,740	5.1	1.9
ZWN035X6	ZS26K4E	-25°F	11,270	4.6	1.9
ZWN045X6	ZS30K4E	40°F	50,100	15.1	9.8
ZWN045X6	ZS30K4E	30°F	42,320	11.9	6.6
ZWN045X6	ZS30K4E	20°F	35,030	8.5	3.7
ZWN045X6	ZS30K4E	10°F	28,480	6.8	2.6
ZWN045X6	ZS30K4E	0°F	22,870	5.8	2.1
ZWN045X6	ZS30K4E	-10°F	17,960	5.5	2.0
ZWN045X6	ZS30K4E	-20°F	14,390	5.2	1.9
ZWN045X6	ZS30K4E	-25°F	12,810	5.1	1.9
ZWN055X6	ZS38K4E	40°F	62,350	21.0	13.1
ZWN055X6	ZS38K4E	30°F	51,980	14.5	7.0
ZWN055X6	ZS38K4E	20°F	42,780	10.3	3.8
ZWN055X6	ZS38K4E	10°F	34,970	7.5	2.2
ZWN055X6	ZS38K4E	0°F	28,420	5.8	1.1
ZWN055X6	ZS38K4E	-10°F	22,640	4.8	1.0
ZWN055X6	ZS38K4E	-20°F	18,050	3.4	0.6
ZWN055X6	ZS38K4E	-25°F	15,920	3.1	0.5
ZWN060X6	ZS45K4E	40°F	74,750	23.9	10.1
ZWN060X6	ZS45K4E	30°F	62,130	17.7	6.8
ZWN060X6	ZS45K4E	20°F	51,090	12.6	3.7

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
ZWN060X6	ZS45K4E	10°F	41,850	9.0	2.0
ZWN060X6	ZS45K4E	0°F	34,160	6.9	1.2
ZWN060X6	ZS45K4E	-10°F	27,360	5.0	1.2
ZWN060X6	ZS45K4E	-20°F	21,820	3.3	0.8
ZWN060X6	ZS45K4E	-25°F	19,220	3.1	0.8
Low Temperature (R-404A/507)					
ZWN030L6	ZF09K4E	0°F	16,300	6.5	4.1
ZWN030L6	ZF09K4E	-10°F	13,200	4.3	2.6
ZWN030L6	ZF09K4E	-20°F	10,500	3.0	1.3
ZWN030L6	ZF09K4E	-25°F	9,300	2.6	1.1
ZWN030L6	ZF09K4E	-30°F	8,270	2.3	0.9
ZWN030L6	ZF09K4E	-40°F	6,380	1.8	0.6
ZWN035L6	ZF11K4E	0°F	20,200	7.5	7.1
ZWN035L6	ZF11K4E	-10°F	16,200	5.2	3.6
ZWN035L6	ZF11K4E	-20°F	12,900	4.7	3.1
ZWN035L6	ZF11K4E	-25°F	11,500	3.2	1.7
ZWN035L6	ZF11K4E	-30°F	10,170	2.7	1.3
ZWN035L6	ZF11K4E	-40°F	7,900	1.9	0.8
ZWN045L6	ZF13K4E	0°F	23,800	10.1	10
ZWN045L6	ZF13K4E	-10°F	19,100	8.0	8.0
ZWN045L6	ZF13K4E	-20°F	15,000	5.2	3.6
ZWN045L6	ZF13K4E	-25°F	13,200	4.5	2.9
ZWN045L6	ZF13K4E	-30°F	11,480	3.6	2.1
ZWN045L6	ZF13K4E	-40°F	8,570	2.6	1.2
ZWN055L6	ZF15K4E	0°F	28,900	11.3	12.3
ZWN055L6	ZF15K4E	-10°F	23,300	9.0	8.6
ZWN055L6	ZF15K4E	-20°F	18,500	6.3	4.7
ZWN055L6	ZF15K4E	-25°F	16,400	5.5	3.8
ZWN055L6	ZF15K4E	-30°F	14,480	4.3	2.6
ZWN055L6	ZF15K4E	-40°F	11,080	2.9	1.5
ZWN060L6	ZF18K4E	0°F	34,500	13.1	11.1
ZWN060L6	ZF18K4E	-10°F	27,700	9.0	6.0
ZWN060L6	ZF18K4E	-20°F	22,000	5.5	2.6
ZWN060L6	ZF18K4E	-25°F	19,500	4.5	2.1
ZWN060L6	ZF18K4E	-30°F	17,260	4.2	1.8
ZWN060L6	ZF18K4E	-40°F	13,260	2.5	1.1

Water-Cooled Condensing Units



1/2 - 6 HP

Unit Specifications

Models with Hermetic Compressors

ODS = Outside Diameter Sweat; FPT = Female Pipe Thread; MPT = Male Pipe Thread

Climate Control Base Model	Compressor	Connections (in.)				Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
		Suction (ODS)	Liquid (ODS)	Water In (FPT)	Water Out (MPT)		Depth (in.)	Width (in.)	Height (in.)	
High Temperature (R-404A/507)										
HWN005H6	RST45C1E	1/2	3/8	1/2	1/2	5.5	22	14	17	98
HWN009H6	RST64C1E	5/8	3/8	1/2	1/2	5.5	22	14	17	103
HWN010H6	RS70C1E	5/8	3/8	1/2	1/2	5.5	22	14	17	107
HWN015H6	CS10K6E	5/8	3/8	1/2	1/2	9	27	22	21	148
HWN025H6	CS14K6E	7/8	3/8	1/2	1/2	9	27	22	21	152
HWN032H6	CS20K6E	7/8	1/2	1/2	1/2	20	27	22	28	182
HWN040H6	CS27K6E	7/8	1/2	1/2	1/2	20	29	25	28	183
HWN050H6	CS33K6E	7/8	1/2	1/2	1/2	20	29	25	28	207
Extended Temperature (R-404A/507)										
HWN005X6	RST45C1E	1/2	3/8	1/2	1/2	5.5	22	14	17	98
HWN008X6	RST55C1E	1/2	3/8	1/2	1/2	5.5	22	14	17	98
HWN009X6	RST64C1E	5/8	3/8	1/2	1/2	5.5	22	14	17	103
HWN010X6	RS70C1E	5/8	3/8	1/2	1/2	5.5	22	14	17	107
HWN015X6	CS10K6E	5/8	3/8	1/2	1/2	9	27	22	21	148
HWN020X6	CS12K6E	7/8	3/8	1/2	1/2	9	27	22	21	148
HWN025X6	CS14K6E	7/8	3/8	1/2	1/2	9	27	22	21	152
HWN030X6	CS18K6E	7/8	1/2	1/2	1/2	20	27	22	28	172
HWN032X6	CS20K6E	7/8	1/2	1/2	1/2	20	27	22	28	182
HWN040X6	CS27K6E	7/8	1/2	1/2	1/2	20	29	25	28	183
HWN050X6	CS33K6E	7/8	1/2	1/2	1/2	20	29	25	28	207
Low Temperature (R-404A/507)										
HWN011L6	CF04K6E	5/8	3/8	1/2	1/2	9	27	22	21	114
HWN014L6	CF06K6E	5/8	3/8	1/2	1/2	9	27	22	21	114
HWN025L6	CF09K6E	5/8	3/8	1/2	1/2	9	27	22	21	120
HWN031L6	CF12K6E	7/8	1/2	1/2	1/2	20	27	22	21	136
Medium & High Temperature (R-22)										
HWN005H2	RST45C1	1/2	3/8	1/2	1/2	6	22	14	17	77
HWN010H2	RST70C1	5/8	3/8	1/2	1/2	6	22	14	17	91
HWN015X6	CS10K6E	5/8	3/8	1/2	1/2	9	27	22	21	148
HWN020X6	CS12K6E	7/8	3/8	1/2	1/2	9	27	22	21	148
HWN025X6	CS14K6E	7/8	3/8	1/2	1/2	9	27	22	21	152
HWN030X6	CS18K6E	7/8	1/2	1/2	1/2	20	27	22	28	172
HWN032X6	CS20K6E	7/8	1/2	1/2	1/2	20	27	22	28	182
HWN040X6	CS27K6E	7/8	1/2	1/2	1/2	20	29	25	28	183
HWN050X6	CS33K6E	7/8	1/2	1/2	1/2	20	29	25	28	207

Section 2

1/2 - 6 HP

Unit Specifications

Models with Scroll Compressors

ODS = Outside Diameter Sweat; FPT = Female Pipe Thread; MPT = Male Pipe Thread

Climate Control Base Model	Compressor	Connections (in.)				Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
		Suction (ODS)	Liquid (ODS)	Water In (FPT)	Water Out (MPT)		Depth (in.)	Width (in.)	Height (in.)	
Extended Temperature (R-404A/507)										
ZWN030X6	ZS21K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	171
ZWN035X6	ZS26K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	186
ZWN045X6	ZS30K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	207
ZWN055X6	ZS38K4E	7/8	1/2	3/4	3/4	20.0	29	25	28	226
ZWN060X6	ZS45K4E	7/8	1/2	3/7	3/4	20.0	29	25	28	241
Low Temperature (R-404A/507)										
ZWN030L6	ZF09K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	159
ZWN035L6	ZF11K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	165
ZWN045L6	ZF13K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	185
ZWN055L6	ZF15K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	201
ZWN060L6	ZF18K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	207

1/2 - 6 HP

Electrical Data

Models with Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Air Defrost		Electric Defrost			
			RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
High Temperature (R-404A/507)										
HWN005H6B	RST45C1E-CAV	208-230/1/60	4.5	26.5	15.0	15	-	-	-	-
HWN009H6B	RST64C1E-CAV	208-230/1/60	7.6	43.0	15.0	15	-	-	-	-
HWN010H6B	RS70C1E-PFV	208-230/1/60	6.9	34.2	15.0	15	-	-	-	-
HWN010H6C	RS70C1E-TFC	208-230/3/60	4.7	31.0	15.0	15	-	-	-	-
HWN015H6B	CS10K6E-PFV	208-230/1/60	11.1	56.0	15.0	25	-	-	-	-
HWN015H6C	CS10K6E-TF5	208-230/3/60	7.2	51.0	15.0	15	-	-	-	-
HWN025H6B	CS14K6E-PFV	208-230/1/60	12.4	61.0	20.0	25	-	-	-	-
HWN025H6C	CS14K6E-TF5	208-230/3/60	8.5	55.0	15.0	15	-	-	-	-
HWN032H6B	CS20K6E-PFV	208-230/1/60	17.9	96.0	22.4	40	-	-	-	-
HWN032H6C	CS20K6E-TF5	208-230/3/60	133.0	75.0	20.0	30	-	-	-	-
HWN040H6K	CS27K6E-TF5	230/3/60	14.1	105.0	20.0	30	-	-	-	-
HWN050H6K	CS33K6E-TF5	230/3/60	16.5	102.0	20.7	35	-	-	-	-
Extended Temperature (R-404A/507)										
HWN005X6B	RST45C1E-CAV	208-230/1/60	4.6	26.5	15.0	15	20.0	20	15	8
HWN008X6B	RST55C1E-CAV	208-230/1/60	6.1	33.7	15.0	15	20.0	20	15	8
HWN009X6B	RST64C1E-CAV	208-230/1/60	8.0	43.0	15.0	15	20.0	20	15	6
HWN010X6B	RS0C1E-PFV	208-230/1/60	6.3	34.2	15.0	15	20.0	20	15	7
HWN010X6C	RS70C1E-TFC	208-230/3/60	4.2	31.0	15.0	15	20.0	20	15	8.6
HWN015X6B	CS10K6E-PFV	208-230/1/60	9.8	56.0	15.0	20	24.0	25	19	6
HWN015X6C	CS10K6E-TF5	208-230/3/60	6.7	51.0	15.0	15	20.0	20	15	7
HWN020X6B	CS12K6E-PFV	208-230/1/60	9.8	56.0	15.0	20	24.0	25	19	6
HWN020X6C	CS12K6E-TF5	208-230/3/60	6.7	51.0	15.0	15	25.0	25	19	9

Water-Cooled Condensing Units



1/2 - 6 HP

Electrical Data

Models with Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Air Defrost		Electric Defrost			
			RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
HWN025X6B	CS14K6E-PFV	208-230/1/60	11.2	61.0	15.0	20	29.0	30	23	6
HWN025X6C	CS14K6E-TF5	208-230/3/60	8.2	55.0	15.0	15	24.0	25	19	9
HWN025X6D	CS14K6E-TFD	460/3/60	4.2	28.0	15.0	15	20.0	20	15	8.3
HWN030X6B	CS18K6E-PFV	208-230/1/60	14.4	82.0	18.0	30	38.0	40	30	12
HWN030X6C	CS18K6E-TF5	208-230/3/60	9.4	65.5	15.0	20	29.0	30	23	7
HWN030X6D	CS18K6E-TFD	460/3/60	3.9	33.0	15.0	15	24.0	25	10	19
HWN032X6B	CS20K6E-PFV	208-230/1/60	16.7	96.0	21.0	30	38.0	50	30	12
HWN032X6C	CS20K6E-TF5	208-230/3/60	10.3	75.0	15.0	20	29.0	30	23	7
HWN032X6D	CS20K6E-TFD	460/3/60	4.6	40.0	15.0	15	24.0	25	19	10
HWN040X6B	CS27K6E-PFV	208-230/1/60	21.5	121.0	27.0	45	44.0	60	35	12
HWN040X6C	CS27K6E-TF5	208-230/3/60	13.7	105.0	20.0	30	38.0	40	30	12
HWN040X6D	CS27K6E-TFD	460/3/60	7.6	52.0	15.0	15	29.0	30	23	11
HWN050X6B	CS33K6E-PFV	208-230/1/60	27.6	1250.0	35.0	50	59.0	60	47	12
HWN050X6C	CS33K6E-TFC	208-230/3/60	16.8	102.0	21.0	35	38.0	45	30	12
HWN050X6D	CS33K6E-TFD	460/3/60	8.8	48.0	15.0	15	29.0	30	23	10
Low Temperature (R-404A/507)										
HWN011L6B	CF04K6E-PFV	208-230/1/60	9.6	59.2	15.0	15	20.0	20	15	8
HWN011L6C	CF04K6E-TF5	208-230/3/60	6.4	52.0	15.0	15	20.0	20	15	8
HWN014L6B	CF06K6E-PFV	208-230/1/60	11.4	59.2	15.0	20	20.0	25	23	4
HWN014L6C	CF06K6E-TF5	208-230/3/60	7.0	52.0	15.0	15	20.0	20	19	9
HWN025L6B	CF09K6E-PFV	208-230/1/60	16.7	87.0	20.0	30	25.0	35	30	6
HWN025L6C	CF09K6E-TF5	208-230/3/60	10.2	72.2	15.0	20	20.0	25	19	7
HWN031L6B	CF12K6E-PFV	208-230/1/60	19.0	105.0	21.0	35	38.0	50	30	12
HWN031L6C	CR12K6E-TF5	208-230/3/60	11.9	85.0	15.0	20	29.0	30	23	7
HWN031L6D	CF12K6E-TFD	460/3/60	5.9	42.0	15.0	15	24.0	25	19	10
Medium & High Temperature (R-22)										
HWN005H2B	RST45C1-CAV	208-230/1/60	5.9	30.0	15.0	15	20.0	20	15	8
HWN010H2B	RST70C1-PFV	208-230/1/60	6.3	34.2	15.0	15	20.0	20	15	7
HWN015X6B	CS10K6E-PFV	208-230/1/60	9.8	56.0	15.0	20	24.0	25	19	6
HWN015X6C	CS10K6E-TF5	208-230/3/60	6.7	51.0	15.0	15	20.0	20	15	7
HWN020X6B	CS12K6E-PFV	208-230/1/60	9.8	56.0	15.0	20	24.0	25	19	6
HWN020X6C	CS12K6E-TF5	208-230/3/60	6.7	51.0	15.0	15	25.0	25	19	9
HWN025X6B	CS14K6E-PFV	208-230/1/60	11.2	61.0	15.0	20	29.0	30	23	6
HWN025X6C	CS14K6E-TF5	208-230/3/60	8.2	55.0	15.0	15	24.0	25	19	9
HWN025X6D	CS14K6E-TFD	460/3/60	4.2	28.0	15.0	15	20.0	20	15	8.3
HWN030X6B	CS18K6E-PFV	208-230/1/60	14.4	82.0	18.0	30	38.0	40	30	12
HWN030X6C	CS18K6E-TF5	208-230/3/60	9.4	65.5	15.0	20	29.0	30	23	7
HWN030X6D	CS18K6E-TFD	460/3/60	3.9	33.0	15.0	15	24.0	25	10	19
HWN032X6B	CS20K6E-PFV	208-230/1/60	16.7	96.0	21.0	30	38.0	50	30	12
HWN032X6C	CS20K6E-TF5	208-230/3/60	10.3	75.0	15.0	20	29.0	30	23	7
HWN032X6D	CS20K6E-TFD	460/3/60	4.6	40.0	15.0	15	24.0	25	19	10
HWN040X6B	CS27K6E-PFV	208-230/1/60	21.5	121.0	27.0	45	44.0	60	35	12
HWN040X6C	CS27K6E-TF5	208-230/3/60	13.7	105.0	20.0	30	38.0	40	30	12
HWN040X6D	CS27K6E-TFD	460/3/60	7.6	52.0	15.0	15	29.0	30	23	11

1/2 - 6 HP

Electrical Data

Models with Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Air Defrost		Electric Defrost			
			RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
HWN050X6B	CS33K6E-PFV	208-230/1/60	27.6	1250.0	35.0	50	59.0	60	47	12
HWN050X6C	CS33K6E-TFC	208-230/3/60	16.8	102.0	21.0	35	38.0	45	30	12
HWN050X6D	CS33K6E-TFD	460/3/60	8.8	48.0	15.0	15	29.0	30	23	10

Models with Scroll Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Climate Control Base Model	Compressor P/N	Voltage	Compressor		Air Defrost		Electric Defrost			
			RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs
Medium Temperature (R-404A/507)										
ZWN030X6B	ZS21K4E-PFV	208-230/1/60	14.7	88.0	18.4	30	38.0	45	30	12
ZWN030X6C	ZS21K4E-TF5	208-230/3/60	9.9	77.0	15.0	20	38.0	40	30	12
ZWN030X6D	ZS21K4E-TFD	460/3/60	5.1	39.0	15.0	15	24.0	25	19	10
ZWN035X6B	ZS26K4E-PFV	208-230/1/60	18.6	109.0	23.2	40	38.0	50	30	12
ZWN035X6C	ZS26K4E-TF5	208-230/3/60	12.2	88.0	15.2	25	38.0	40	30	12
ZWN035X6D	ZS26K4E-TFD	460/3/60	6.4	44.0	15.0	15	24.0	25	19	9
ZWN045X6B	ZS30K4E-PFV	208-230/1/60	24.0	129.0	30.0	50	59.0	60	47	11
ZWN045X6C	ZS30K4E-TF5	208-230/3/60	13.5	99.0	17.0	30	44.0	45	35	12
ZWN045X6D	ZS30K4E-TFD	460/3/60	7.4	49.5	15.0	15	29.0	30	23	11
ZWN055X6B	ZS38K4E-PFV	208-230/1/60	28.8	169.0	36.0	60	59.0	60	47	12
ZWN055X6C	ZS38K4E-TF5	208-230/3/60	19.2	123.0	24.0	40	44.0	50	35	12
ZWN055X6D	ZS38K4E-TFD	460/3/60	8.7	62.0	15.0	15	29.0	30	23	10
ZWN060X6C	ZS45K4E-TF5	208-230/3/60	21.5	156.0	27.0	45	38.0	60	30	12
ZWN060X6D	ZS45K4E-TFD	460/3/60	8.3	70.0	15.0	15	29.0	30	23	10.6
Low Temperature (R-404A/507)										
ZWN030L6B	ZF09K4E-PFV	208-230/1/60	14.7	88.0	18.0	30	38.0	45	30	12
ZWN030L6C	ZF09K4E-TF5	208-230/3/60	9.9	77.0	15.0	20	24.0	25	19	6
ZWN030L6D	ZF09K4E-TFD	460/3/60	5.1	39.0	15.0	15	24.0	25	19	10
ZWN035L6B	ZF11K4E-PFV	208-230/1/60	18.6	109.0	23.0	40	38.0	50	30	12
ZWN035L6C	ZF11K4E-TF5	208-230/3/60	12.2	88.0	15.0	25	29.0	30	23	6
ZWN035L6D	ZF11K4E-TFD	460/3/60	6.4	44.0	15.0	15	24.0	25	19	10
ZWN045L6B	ZF13K4E-PFV	208-230/1/60	24.0	129.0	30.0	50	41.0	60	30	11
ZWN045L6C	ZF13K4E-TF5	208-230/3/60	13.5	99.0	17.0	30	38.0	40	30	11
ZWN045L6D	ZF13K4E-TFD	460/3/60	7.4	49.5	15.0	15	24.0	25	19	9
ZWN055L6B	ZF15K4E-PFV	208-230/1/60	28.8	169.0	36.0	60	38.0	60	30	10
ZWN055L6C	ZF15K4E-TF5	208-230/3/60	19.2	123.0	24.0	40	38.0	50	30	10
ZWN055L6D	ZF15K4E-TFD	460/3/60	8.7	62.0	15.0	15	25.0	25	19	8
ZWN060L6C	ZF18K4E-TF5	208-230/3/60	21.5	156.0	27.0	45	44.0	60	35	12
ZWN060L6D	ZF18K4E-TFD	460/3/60	8.3	70.0	15.0	15	29.0	30	23	11

3/4 - 22 HP

Overview



Product Description:

The 3/4 through 22 HP water-cooled condensing unit product line features semi-hermetic compressors. These condensing units are “vessel-mounted” indoor water-cooled condensing units complete with a shell and tube condenser.

The cleanable condenser is perfect for applications where air-cooled condensers would not be practical and/or areas where water is readily available.

These units provide an economical, compact alternative to traditional air-cooled condensing units.

Certifications:



Cabinet & Construction

- Component location and unit size are optimized for easy field replacement and space limited applications

Serviceability

- Spacious, pre-painted electrical box
- Pump-down switch
- Easy access refrigerant piping
- Captive door fasteners
- Single electrical connection location
- Removable electrical box provides convenient front access to the oil pump and compressor

Quality

- Pre-bent tubing reduces the possibility of leaks
- Shipped with a dry nitrogen holding charge
- Heavy duty metal base plate
- Non-metallic conduit on all wiring runs

Components

- Semi-hermetic reciprocating compressors
- Rigid mounted compressors on models 0075-0400 and spring mounted compressors with suction and discharge vibration eliminators on models 0499 and above
- Fixed low pressure switch (adjustable on low temperature models)
- Fixed high pressure switch
- Sealed liquid line filter drier and sight glass

Nomenclature

S	W	N	0075	L	6	B
Compressor	Model	Application	Model Size	Operating Range	Refrigerant	Electrical Code
S = Semi-Hermetic Reciprocating	W = Water Cooled	N = Indoor	0075-2200	H = High L = Low M = Medium E = Extra Low	2 = R-22 6 = R-404A/507	B = 208/230/1/60 C = 208-230/3/60 D = 460/3/60

¾ - 22 HP

Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature, 5°F Subcooling

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
Medium Temperature (R-404A/507)					
SWN0090M6	KARA-010E	40°F	-	-	-
SWN0090M6	KARA-010E	35°F	-	-	-
SWN0090M6	KARA-010E	30°F	-	-	-
SWN0090M6	KARA-010E	25°F	10,340	2.4	1.6
SWN0090M6	KARA-010E	20°F	9,140	2.1	1.3
SWN0090M6	KARA-010E	15°F	8,140	1.8	1.0
SWN0199M6	KAKA-020E	40°F	-	-	-
SWN0199M6	KAKA-020E	35°F	-	-	-
SWN0199M6	KAKA-020E	30°F	-	-	-
SWN0199M6	KAKA-020E	25°F	16,750	4.8	6.7
SWN0199M6	KAKA-020E	20°F	15,120	4.2	5.0
SWN0199M6	KAKA-020E	15°F	13,490	3.5	3.7
SWN0200M6	ERCA-021E	40°F	-	-	-
SWN0200M6	ERCA-021E	35°F	-	-	-
SWN0200M6	ERCA-021E	30°F	-	-	-
SWN0200M6	ERCA-021E	25°F	21,790	6.5	1.4
SWN0200M6	ERCA-021E	20°F	19,430	5.6	1.1
SWN0200M6	ERCA-021E	15°F	17,220	4.8	0.8
SWN0310M6	ERF1-031E	40°F	-	-	-
SWN0310M6	ERF1-031E	35°F	-	-	-
SWN0310M6	ERF1-031E	30°F	-	-	-
SWN0310M6	ERF1-031E	25°F	31,450	8.5	2.5
SWN0310M6	ERF1-031E	20°F	28,090	7.3	1.8
SWN0310M6	ERF1-031E	15°F	24,990	6.2	1.4
SWN0500M6	2DC3R53KE	40°F	68,040	24.6	14.9
SWN0500M6	2DC3R53KE	35°F	61,160	20.0	9.9
SWN0500M6	2DC3R53KE	30°F	54,810	16.5	6.8
SWN0500M6	2DC3R53KE	25°F	48,930	13.7	4.8
SWN0500M6	2DC3R53KE	20°F	43,470	11.5	3.4
SWN0500M6	2DC3R53KE	15°F	38,480	9.7	2.4
Low Temperature (R-404A/507)					
SWN0150L6	KALA-016E	0°F	11,550	3.1	2.9
SWN0150L6	KALA-016E	-10°F	9,030	2.3	1.6
SWN0150L6	KALA-016E	-20°F	6,830	1.7	0.9
SWN0150L6	KALA-016E	-25°F	5,880	1.5	0.7
SWN0150L6	KALA-016E	-30°F	4,940	1.3	0.5
SWN0150L6	KALA-016E	-40°F	3,160	0.8	0.2
SWN0200L6	EADA-020E	0°F	13,970	3.8	0.5
SWN0200L6	EADA-020E	-10°F	10,500	2.7	0.3

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
SWN0200L6	EADA-020E	-20°F	7,770	2.0	0.2
SWN0200L6	EADA-020E	-25°F	6,620	1.7	0.1
SWN0200L6	EADA-020E	-30°F	5,570	1.5	0.1
SWN0200L6	EADA-020E	-40°F	3,590	1.1	0.2
SWN0210L6	EAVA-021E	0°F	16,280	4.7	0.8
SWN0210L6	EAVA-021E	-10°F	12,290	3.3	0.4
SWN0210L6	EAVA-021E	-20°F	8,820	2.3	0.2
SWN0210L6	EAVA-021E	-25°F	7,350	1.9	0.2
SWN0210L6	EAVA-021E	-30°F	5,990	1.6	0.1
SWN0210L6	EAVA-021E	-40°F	3,980	1.2	0.2
SWN0310E6	LACA-032E	0°F	-	-	-
SWN0310E6	LACA-032E	-10°F	-	-	-
SWN0310E6	LACA-032E	-20°F	18,060	4.7	0.8
SWN0310E6	LACA-032E	-25°F	15,330	3.9	0.6
SWN0310E6	LACA-032E	-30°F	12,810	3.2	0.4
SWN0310E6	LACA-032E	-40°F	8,540	2.1	0.2
SWN0310L6	LAHA-032E	0°F	26,360	7.3	1.9
SWN0310L6	LAHA-032E	-10°F	19,850	5.0	0.9
SWN0310L6	LAHA-032E	-20°F	14,180	3.4	0.4
SWN0310L6	LAHA-032E	-25°F	11,760	2.8	0.3
SWN0310L6	LAHA-032E	-30°F	9,560	2.3	0.2
SWN0310L6	LAHA-032E	-40°F	5,940	1.5	0.1
SWN0311L6	2DF3F16KE	0°F	34,440	9.1	2.8
SWN0311L6	2DF3F16KE	-10°F	26,570	6.6	1.6
SWN0311L6	2DF3F16KE	-20°F	19,950	4.8	0.9
SWN0311L6	2DF3F16KE	-25°F	17,120	4.1	0.6
SWN0311L6	2DF3F16KE	-30°F	14,600	3.5	0.5
SWN0311L6	2DF3F16KE	-40°F	10,050	2.4	0.2
SWN0400L6	2DL3F20KE	0°F	41,160	12.0	4.7
SWN0400L6	2DL3F20KE	-10°F	31,920	8.5	2.5
SWN0400L6	2DL3F20KE	-20°F	24,260	6.1	1.3
SWN0400L6	2DL3F20KE	-25°F	20,900	5.2	1.0
SWN0400L6	2DL3F20KE	-30°F	17,850	4.4	0.7
SWN0400L6	2DL3F20KE	-40°F	12,480	3.0	0.3
SWN0599L6	2DA3F23KE	0°F	46,520	12.2	3.8
SWN0599L6	2DA3F23KE	-10°F	36,440	9.0	2.1
SWN0599L6	2DA3F23KE	-20°F	27,930	6.7	1.2
SWN0599L6	2DA3F23KE	-25°F	24,260	5.7	0.9
SWN0599L6	2DA3F23KE	-30°F	20,900	4.9	0.7
SWN0599L6	2DA3F23KE	-40°F	14,790	3.4	0.3

Water-Cooled Condensing Units



¾ - 22 HP

Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature, 5°F Subcooling

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
SWN0600L6	2DB3F25KE	0°F	50,190	13.7	4.8
SWN0600L6	2DB3F25KE	-10°F	39,170	9.9	2.6
SWN0600L6	2DB3F25KE	-20°F	29,930	7.3	1.4
SWN0600L6	2DB3F25KE	-25°F	25,830	6.2	1.0
SWN0600L6	2DB3F25KE	-30°F	22,050	5.2	0.7
SWN0600L6	2DB3F25KE	-40°F	15,460	3.6	0.4
SWN0601L6	3DA3F28KE	0°F	55,760	16.5	6.8
SWN0601L6	3DA3F28KE	-10°F	43,680	11.8	3.6
SWN0601L6	3DA3F28KE	-20°F	33,600	8.6	2.0
SWN0601L6	3DA3F28KE	-25°F	29,190	7.4	1.4
SWN0601L6	3DA3F28KE	-30°F	25,200	6.3	1.0
SWN0601L6	3DA3F28KE	-40°F	18,260	4.5	0.5
SWN0750L6	3DB3F33KE	0°F	65,840	13.1	3.1
SWN0750L6	3DB3F33KE	-10°F	51,560	10.1	1.9
SWN0750L6	3DB3F33KE	-20°F	39,800	7.7	1.1
SWN0750L6	3DB3F33KE	-25°F	34,760	6.8	0.9
SWN0750L6	3DB3F33KE	-30°F	30,030	5.9	0.7
SWN0750L6	3DB3F33KE	-40°F	21,670	4.3	0.4
SWN0900L6	3DF3F40KE	0°F	80,750	20.1	1.0
SWN0900L6	3DF3F40KE	-10°F	63,210	15.1	0.6
SWN0900L6	3DF3F40KE	-20°F	48,620	11.3	0.3
SWN0900L6	3DF3F40KE	-25°F	42,210	9.8	0.2
SWN0900L6	3DF3F40KE	-30°F	36,440	8.4	0.2
SWN0900L6	3DF3F40KE	-40°F	26,440	6.1	0.1
SWN1000L6	3DS3F46KE	0°F	89,460	23.5	1.3
SWN1000L6	3DS3F46KE	-10°F	70,880	17.7	0.8
SWN1000L6	3DS3F46KE	-20°F	55,020	13.3	0.4
SWN1000L6	3DS3F46KE	-25°F	47,990	11.5	0.3
SWN1000L6	3DS3F46KE	-30°F	41,480	9.8	0.3
SWN1000L6	3DS3F46KE	-40°F	30,140	7.1	0.1
SWN1500L6	4DLNF63KE	0°F	120,650	29.5	1.1
SWN1500L6	4DLNF63KE	-10°F	95,660	22.5	0.6
SWN1500L6	4DLNF63KE	-20°F	75,390	17.3	0.4
SWN1500L6	4DLNF63KE	-25°F	66,360	15.2	0.3
SWN1500L6	4DLNF63KE	-30°F	57,960	13.2	0.2
SWN1500L6	4DLNF63KE	-40°F	41,760	9.5	0.1
SWN2200L6	4DTNF76KE	0°F	144,900	39.1	1.8
SWN2200L6	4DTNF76KE	-10°F	115,710	29.3	1.0
SWN2200L6	4DTNF76KE	-20°F	90,720	22.0	0.6
SWN2200L6	4DTNF76KE	-25°F	79,380	18.9	0.5

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
SWN2200L6	4DTNF76KE	-30°F	68,670	16.2	0.3
SWN2200L6	4DTNF76KE	-40°F	48,600	11.3	0.2
Medium & High Temperature (R-22)					
SWN0075H2	KAN1-0075	40°F	9,740	1.7	0.8
SWN0075H2	KAN1-0075	35°F	8,620	1.5	0.7
SWN0075H2	KAN1-0075	30°F	7,620	1.3	0.5
SWN0075H2	KAN1-0075	25°F	6,700	1.2	0.4
SWN0075H2	KAN1-0075	20°F	5,860	1.0	0.3
SWN0075H2	KAN1-0075	15°F	5,090	0.9	0.2
SWN0075M2	KAE1-0075	40°F	-	-	-
SWN0075M2	KAE1-0075	35°F	-	-	-
SWN0075M2	KAE1-0075	30°F	-	-	-
SWN0075M2	KAE1-0075	25°F	8,000	1.5	0.7
SWN0075M2	KAE1-0075	20°F	7,130	1.3	0.5
SWN0075M2	KAE1-0075	15°F	6,310	1.2	0.4
SWN0090H2	KARA-010E	40°F	13,170	2.6	2.1
SWN0090H2	KARA-010E	35°F	11,740	2.3	1.6
SWN0090H2	KARA-010E	30°F	10,510	2.1	1.3
SWN0090H2	KARA-010E	25°F	9,370	1.8	1.0
SWN0090H2	KARA-010E	20°F	8,330	1.6	0.8
SWN0090H2	KARA-010E	15°F	7,370	1.4	0.6
SWN0100H2	KAM1-0100	40°F	15,070	2.9	2.5
SWN0100H2	KAM1-0100	35°F	13,430	2.6	1.9
SWN0100H2	KAM1-0100	30°F	12,040	2.3	1.5
SWN0100H2	KAM1-0100	25°F	10,690	2.0	1.2
SWN0100H2	KAM1-0100	20°F	9,480	1.8	0.9
SWN0100H2	KAM1-0100	15°F	8,380	1.6	0.7
SWN0150H2	KAGA-0150	40°F	17,090	3.5	3.6
SWN0150H2	KAGA-0150	35°F	15,270	3.1	2.8
SWN0150H2	KAGA-0150	30°F	13,630	2.7	2.2
SWN0150H2	KAGA-0150	25°F	12,150	2.4	1.7
SWN0150H2	KAGA-0150	20°F	10,760	2.1	1.3
SWN0150H2	KAGA-0150	15°F	9,450	1.8	1.0
SWN0200H2	ERA1-0200	40°F	24,980	6.2	1.3
SWN0200H2	ERA1-0200	35°F	21,780	5.3	1.0
SWN0200H2	ERA1-0200	30°F	18,810	4.4	0.7
SWN0200H2	ERA1-0200	25°F	16,090	3.7	0.5
SWN0200H2	ERA1-0200	20°F	13,530	3.1	0.3
SWN0200H2	ERA1-0200	15°F	11,170	2.5	0.2
SWN0200M2	ERC1-0200	40°F	-	-	-

Section 2

¾ - 22 HP

Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions: 85°F Entering Water, 105°F Condensing Temperature, 5°F Subcooling

BTUH = British Thermal Units (All capacities are rated at 60 Hz operation)

GPM = Gallons per minute (Water flow rate)

PSI = Pounds per Square Inch (Water pressure drop through Condenser)

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
SWN0200M2	ERC1-0200	35°F	-	-	-
SWN0200M2	ERC1-0200	30°F	-	-	-
SWN0200M2	ERC1-0200	25°F	19,480	4.6	0.7
SWN0200M2	ERC1-0200	20°F	17,020	3.9	0.5
SWN0200M2	ERC1-0200	15°F	14,810	3.4	0.4
SWN0300H2	ERF1-0311	40°F	39,310	9.1	2.8
SWN0300H2	ERF1-0311	35°F	35,260	7.9	2.2
SWN0300H2	ERF1-0311	30°F	31,620	6.9	1.7
SWN0300H2	ERF1-0311	25°F	28,290	6.1	1.3
SWN0300H2	ERF1-0311	20°F	25,220	5.3	1.0
SWN0300H2	ERF1-0311	15°F	22,400	4.7	0.8
SWN0499H2	2DC3R53KE	40°F	65,090	16.1	6.5
SWN0499H2	2DC3R53KE	35°F	58,320	13.8	4.9
SWN0499H2	2DC3R53KE	30°F	52,020	11.8	3.6
SWN0499H2	2DC3R53KE	25°F	46,230	10.2	2.7
SWN0499H2	2DC3R53KE	20°F	40,900	8.8	2.0
SWN0499H2	2DC3R53KE	15°F	35,930	7.5	1.5
SWN0500H2	2DD3R63KE	40°F	75,240	21.0	10.9
SWN0500H2	2DD3R63KE	35°F	67,500	17.7	7.9
SWN0500H2	2DD3R63KE	30°F	60,370	15.0	5.7
SWN0500H2	2DD3R63KE	25°F	53,810	12.8	4.2
SWN0500H2	2DD3R63KE	20°F	47,710	11.0	3.1
SWN0500H2	2DD3R63KE	15°F	42,080	9.4	2.3
SWN0750H2	2DL3R78KE	40°F	93,690	16.9	5.1
SWN0750H2	2DL3R78KE	35°F	84,310	14.9	4.0
SWN0750H2	2DL3R78KE	30°F	75,700	13.2	3.1
SWN0750H2	2DL3R78KE	25°F	67,750	11.6	2.5
SWN0750H2	2DL3R78KE	20°F	60,320	10.3	1.9
SWN0750H2	2DL3R78KE	15°F	53,450	9.0	1.5
SWN0760H2	2DA3R89KE	40°F	105,680	20.4	7.3
SWN0760H2	2DA3R89KE	35°F	95,330	17.9	5.6
SWN0760H2	2DA3R89KE	30°F	85,690	15.7	4.4
SWN0760H2	2DA3R89KE	25°F	76,770	13.8	3.4
SWN0760H2	2DA3R89KE	20°F	68,420	12.1	2.7
SWN0760H2	2DA3R89KE	15°F	60,580	10.6	2.1
SWN0761H2	3DA3R10ME	40°F	127,100	27.5	13.0
SWN0761H2	3DA3R10ME	35°F	114,800	23.8	9.8
SWN0761H2	3DA3R10ME	30°F	103,270	20.7	7.5
SWN0761H2	3DA3R10ME	25°F	92,810	18.1	5.8
SWN0761H2	3DA3R10ME	20°F	83,130	15.9	4.5

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity Ratings		
			BTUH	GPM	PSI
SWN0761H2	3DA3R10ME	15°F	74,160	13.9	3.5
SWN1000H2	3DB3R12ME	40°F	149,650	41.5	3.9
SWN1000H2	3DB3R12ME	35°F	135,300	35.8	2.9
SWN1000H2	3DB3R12ME	30°F	122,490	31.2	2.3
SWN1000H2	3DB3R12ME	25°F	110,190	27.0	1.7
SWN1000H2	3DB3R12ME	20°F	99,020	23.6	1.3
SWN1000H2	3DB3R12ME	15°F	88,710	20.7	1.0
SWN1500H2	3DS3R17ME	40°F	198,850	51.1	3.0
SWN1500H2	3DS3R17ME	35°F	179,890	44.2	2.3
SWN1500H2	3DS3R17ME	30°F	161,950	38.3	1.8
SWN1500H2	3DS3R17ME	25°F	146,060	33.5	1.4
SWN1500H2	3DS3R17ME	20°F	131,200	29.3	1.1
SWN1500H2	3DS3R17ME	15°F	117,310	25.6	0.8
SWN2000H2	4DBNR20ME	40°F	-	-	-
SWN2000H2	4DBNR20ME	35°F	226530	67.1	5.1
SWN2000H2	4DBNR20ME	30°F	202950	56.4	3.6
SWN2000H2	4DBNR20ME	25°F	171170	47.6	2.6
SWN2000H2	4DBNR20ME	20°F	160670	40.3	1.9
SWN2000H2	4DBNR20ME	15°F	441460	34.3	1.4

Water-Cooled Condensing Units



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Unit Specifications

Models with Semi-Hermetic Compressors

ODS = Outside Diameter Sweat; FPT = Female Pipe Thread; MPT = Male Pipe Thread

Climate Control Base Model	Compressor	Connections (in.)				Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
		Suction (ODS)	Liquid (ODS)	Water In (FPT)	Water Out (MPT)		Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)										
SWN0090M6	KARA-010E	7/8	3/8	1/2	1/2	18.0	35	23 3/4	37 3/8	180
SWN0199M6	KAKA-020E	7/8	3/8	1/2	1/2	18.0	35	23 3/4	37 3/8	210
SWN0200M6	ERCA-021E	7/8	3/8	1/2	1/2	15.0	38 3/8	23 3/4	37 3/8	260
SWN0310M6	ERFA-031E	1 1/8	1/2	3/4	3/4	17.0	38 3/8	26 3/4	36 3/8	325
SWN0500M6	2DC3R53KE	1 3/8	5/8	1 1/4	1 1/4	34.0	42 1/2	30 3/8	39 1/4	400
Low Temperature (R-404A/507)										
SWN0150L6	KALA-016E	7/8	3/8	1/2	1/2	18.0	35	23 3/4	37 3/8	195
SWN0200L6	EADA-020E	7/8	3/8	1/2	1/2	15.0	35	23 3/4	37 3/8	325
SWN0210L6	EAVA-021E	7/8	3/8	1/2	1/2	15.0	35	23 3/4	37 3/8	325
SWN0310L6	LAHA-032E	1 1/8	1/2	3/4	3/4	17.0	38 3/8	26 3/4	36 3/8	325
SWN0310E6	LACA-032E	1 1/8	1/2	3/4	3/4	17.0	38 3/8	26 3/4	36 3/8	325
SWN0311L6	2DF3F16KE	1 3/8	1/2	3/4	3/4	17.0	38 3/8	26 3/4	36 3/8	340
SWN0400L6	2DL320KE	1 3/8	1/2	3/4	3/4	17.0	38 3/8	26 3/4	36 3/8	385
SWN0599L6	2DAF23KE	1 3/8	5/8	1 1/4	1 1/4	34.0	42 1/2	30 3/8	39 1/4	415
SWN0600L6	2DB3F25KE	1 3/8	5/8	1 1/4	1 1/4	34.0	42 1/2	30 3/8	39 1/4	415
SWN0601L6	3DA3F28KE	1 3/8	5/8	1 1/4	1 1/4	34.0	42 1/2	30 3/8	39 1/4	430
SWN0750L6	3DB3F33KE	1 5/8	5/8	1 1/4	1 1/4	52.0	55 1/2	35 3/8	41 1/2	465
SWN0900L6	3DF3F40KE	1 5/8	5/8	1 1/4	1 1/4	57.0	55 1/2	35 3/8	41 1/2	560
SWN1000L6	3D53F46KE	1 5/8	7/8	1 1/4	1 1/4	57.0	55 1/2	35 3/8	41 1/2	715
SWN1500L6	4DLNF63KE	2 1/8	7/8	1 1/2	1 1/2	109.0	55 1/2	35 3/8	41 1/2	780
SWN2200L6	4DTNF76KE	2 1/8	7/8	1 1/2	1 1/2	109.0	55 1/2	35 3/8	41 1/2	865
Medium & High Temperature (R-22)										
SWN0075H2	KAN1-0075	5/8	3/8	1/2	1/2	21.0	35	23 3/4	37 3/8	165
SWN0075M2	KAE1-0075	5/8	3/8	1/2	1/2	21.0	35	23 3/4	37 3/8	165
SWN0090H2	KARA-010E	5/8	3/8	1/2	1/2	21.0	35	23 3/4	37 3/8	180
SWN0100H2	KAM1-0100	7/8	3/8	1/2	1/2	21.0	35	23 3/4	37 3/8	180
SWN0150H2	KAGA-0150	7/8	3/8	1/2	1/2	21.0	35	23 3/4	37 3/8	195
SWN0200H2	ERA1-0200	7/8	3/8	1/2	1/2	17.0	35	23 3/4	37 3/8	260
SWN0200M2	ERC1-0200	7/8	3/8	1/2	1/2	17.0	35	23 3/4	37 3/8	260
SWN0300H2	ERF1-0311	1 1/8	1/2	3/4	3/4	19.0	38 3/8	26 3/4	36 3/8	325
SWN0499H2	2DC3R53KE	1 3/8	5/8	1 1/4	1 1/4	39.0	42 1/2	30 3/8	39 1/4	400
SWN0500H2	2DD3R63KE	1 3/8	5/8	1 1/4	1 1/4	39.0	42 1/2	30 3/8	39 1/4	400
SWN0750H2	2DL3R78KE	1 3/8	5/8	1 1/4	1 1/4	60.0	55 1/2	35 3/8	41 1/2	465
SWN0760H2	2DA3R89KE	1 3/8	5/8	1 1/4	1 1/4	60.0	55 1/2	35 3/8	41 1/2	465
SWN0761H2	3DA3R10ME	1 3/8	5/8	1 1/4	1 1/4	60.0	55 1/2	35 3/8	41 1/2	465
SWN1000H2	3DB3R12ME	1 5/8	7/8	1 1/4	1 1/4	66.0	55 1/2	35 3/8	41 1/2	715
SWN1500H2	3DS3R17ME	1 5/8	7/8	1 1/2	1 1/2	125.0	55 1/2	35 3/8	41 1/2	735
SWN2000H2	4DBNR20ME	1 5/8	7/8	1 1/2	1 1/2	125.0	55 1/2	35 3/8	41 1/2	795

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Electrical Data

Models with Semi-Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs	MCA	MOPD	Evap Fans	Elec Htrs
Medium Temperature (R-404A/507)													
SWN0090M6B	208-230/1/60	6.4	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0090M6C	208-230/3/60	3.8	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0199M6B	208-230/1/60	9.1	55.0	15.0	20	25.0	25	6	20 (1)	50.0	50	12	40 (1)
SWN0199M6C	208-230/3/60	5.8	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0200M6C	208-230/3/60	7.9	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0310M6C	208-230/3/60	11.2	82.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0310M6D	460/3/60	5.2	41.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SWN0500M6C	208-230/3/60	20.0	120.0	25.0	45	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SWN0500M6D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
Low Temperature (R-404A/507)													
SWN0150L6B	208-230/1/60	8.9	55.0	15.0	20	25.0	25	6	20 (1)	-	-	-	-
SWN0150L6C	208-230/3/60	5.0	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0150L6D	460/3/60	3.1	25.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0200L6C	208-230/3/60	6.1	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0210L6B	208-230/1/60	13.2	102.0	20.0	25	25.0	35	6	20 (1)	-	-	-	-
SWN0210L6C	208-230/3/60	6.6	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0210L6D	460/3/60	2.9	26.6	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0310L6C	208-230/3/60	11.5	112.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0310L6D	460/3/60	5.4	56.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SWN0310E6C	208-230/3/60	11.5	112.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0310E6D	460/3/60	5.4	56.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SWN0311L6C	208-230/3/60	14.4	102.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SWN0311L6D	460/3/60	7.1	52.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SWN0400L6C	208-230/3/60	23.6	161.0	29.5	50	35.5	50	6	20 (1)	50.0	60	12	40 (1)
SWN0400L6D	460/3/60	9.2	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SWN0599L6C	208-230/3/60	25.8	161.0	32.3	50	38.3	60	6	20 (1)	50.0	70	12	40 (1)
SWN0599L6D	460/3/60	9.2	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SWN0600L6C	208-230/3/60	25.3	161.0	31.7	50	37.7	60	6	20 (1)	50.0	60	12	40 (1)
SWN0600L6D	460/3/60	11.9	80.0	15.0	25	20.0	25	3	10 (1)	25.0	30	6	20 (1)
SWN0601L6C	208-230/3/60	24.0	150.0	30.1	50	36.1	60	6	20 (1)	50.0	60	12	40 (1)
SWN0601L6D	460/3/60	10.8	77.0	15.0	20	20.0	25	3	10 (1)	25.0	30	6	20 (1)
SWN0750L6C	208-230/3/60	27.6	161.0	34.5	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SWN0750L6D	460/3/60	14.1	83.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SWN0900L6C	208-230/3/60	33.2	215.0	41.5	70	53.5	80	12	40 (1)	87.5	90	16	70 (2)
SWN0900L6D	460/3/60	15.0	106.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SWN1000L6C	208-230/3/60	37.2	215.0	46.5	80	58.5	90	12	40 (1)	87.5	90	16	70 (2)
SWN1000L6D	460/3/60	16.7	106.0	20.8	35	26.8	40	6	20 (1)	50.0	50	12	40 (1)
SWN1500L6C	208-230/3/60	47.2	278.0	59.0	100	87.5	110	16	70 (2)	120.0	125	25	96 (2)
SWN1500L6D	460/3/60	23.6	139.0	29.5	50	50.0	60	12	40 (1)	87.5	90	16	70 (2)
SWN2200L6C	208-230/3/60	57.7	374.0	74.0	125	90.0	125	16	70 (2)	120.0	150	25	96 (2)
SWN2200L6D	460/3/60	28.8	187.0	37.0	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)

Water-Cooled Condensing Units



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Electrical Data

Models with Semi-Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

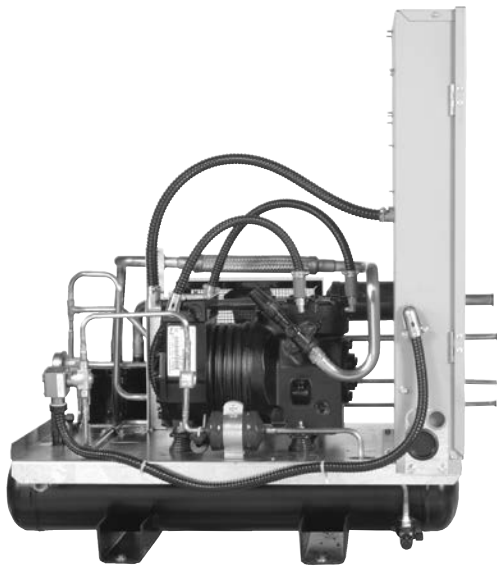
Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap. Fans	Elec. Htrs	MCA	MOPD	Evap Fans	Elec Htrs
Medium & High Temperature (R-22)													
SWN0075H2B	208-230/1/60	5.4	36.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0075H2C	208-230/3/60	3.1	19.9	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0075M2B	208-230/1/60	4.9	36.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0075M2C	208-230/3/60	3.0	19.9	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0090H2B	208-230/1/60	6.4	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0090H2C	208-230/3/60	3.8	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0100H2B	208-230/1/60	6.7	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0100H2C	208-230/3/60	4.0	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0100H2D	460/3/60	1.0	13.5	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0150H2B	208-230/1/60	8.6	55.0	15.0	15	25.0	25	6	20 (1)	50.0	500	12	40 (1)
SWN0150H2C	208-230/3/60	4.9	35.5	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0150H2D	460/3/60	2.2	18.2	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0200H2C	208-230/3/60	5.9	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0200H2D	460/3/60	3.1	46.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0200M2C	208-230/3/60	6.1	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SWN0200M2D	460/3/60	3.3	23.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SWN0300H2C	208-230/3/60	11.2	82.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0300H2D	460/3/60	5.2	41.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SWN0499H2C	208-230/3/60	20.0	120.0	25.0	45	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SWN0499H2D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SWN0500H2C	208-230/3/60	20.0	120.0	25.0	40	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SWN0500H2D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SWN0750H2C	208-230/3/60	28.3	169.0	35.4	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SWN0750H2D	460/3/60	12.4	85.0	20.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0760H2C	208-230/3/60	28.7	169.0	35.9	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SWN0760H2D	460/3/60	12.6	85.0	20.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SWN0761H2C	208-230/3/60	36.8	215.0	46.0	80	58.0	90	12	40 (1)	87.5	90	16	70 (2)
SWN0761H2D	460/3/60	17.9	106.0	22.4	40	28.4	45	6	20 (1)	50.0	50	12	40 (1)
SWN1000H2C	208-230/3/60	39.1	215.0	48.9	80	60.9	90	12	40 (1)	87.5	100	16	70 (2)
SWN1000H2D	460/3/60	17.9	106.0	22.4	40	28.4	45	6	20 (1)	50.0	50	12	40 (1)
SWN1500H2C	208-230/3/60	53.5	275.0	66.9	110	87.5	125	16	70 (2)	120.0	125	25	96 (2)
SWN1500H2D	460/3/60	26.0	138.0	32.5	50	50.0	70	12	40 (1)	987.5	90	16	70 (2)
SWN2000H2C	208-230/3/60	64.7	374.0	80.9	125	96.9	150	16	70 (2)	120.0	150	25	96 (2)
SWN2000H2D	460/3/60	32.4	187.0	40.5	70	52.5	80	12	40 (1)	87.5	90	16	70 (2)

Section 2

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Overview



Product Description

The indoor SRN and ZRN remote compressor units feature semi-hermetic or Scroll® compressors. These units are specially designed for use in supermarket restaurant, warehouse and other commercial and industrial applications.

The design focuses on easy of installation and maintenance along with the flexibility to fit most application requirements.

Certifications



Cabinet & Construction

- Spacious, pre-painted electrical box
- Fixed low pressure switch (adjustable on low temp models)
- Fixed high pressure switch
- Pump down switch
- 230V control circuit transformer on 460V units
- Standard 16-3/4" tall box - (large 29-1/4" tall box is standard when defrost components are selected)
- Sealed liquid line filter drier and sight glass

Serviceability

- Easy access refrigerant piping
- Captive door fasteners
- Single electrical connection location
- Removable electrical box provides convenient front access to the oil pump and compressor

Quality

- Every unit is subjected to a helium leak test to ensure the unit is leak free
- Shipped with nitrogen holding charge to enable installer to verify unit is leak-free upon arrival
- All the units are completely leak tested in a helium environment, compressor is bump tested and high and low pressure controls are cycled. Each unit has a copy of the run data shipped inside the electrical panel.

Components

- Pre-bent tubing reduces the possibility of leaks
- Shipped with dry nitrogen charge
- Heavy duty base plate
- Non-metallic conduit on all wiring runs

Nomenclature

S	R	N	020	H	2	C
Compressor	Model	Application	Model Size	Operating Range	Refrigerant ACC-DVT-nom.eps	Electrical Code
S = Semi-Hermetic Reciprocating Z = Remote Scroll®	R = Remote	N = Indoor	020-2200	H = High L = Low M = Medium E = Extra Low X = Extended Temp.	2 = R-22 6 = R-404A/507	B = 208/230/1/60 C = 208-230/3/60 D = 460/3/60

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Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions for High/Medium Temperature: 120°F Condensing Temperature, 8°F Subcooling

Capacity rating conditions for Low Temperature: 110°F Condensing Temperature, 6°F Subcooling

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
Medium Temperature (R-404A/507)			
SRN0090M6	KARA-010E	40°F	-
SRN0090M6	KARA-010E	35°F	-
SRN0090M6	KARA-010E	30°F	-
SRN0090M6	KARA-010E	25°F	8,880
SRN0090M6	KARA-010E	20°F	7,780
SRN0090M6	KARA-010E	15°F	6,910
SRN0199M6	KAKA-020E	40°F	-
SRN0199M6	KAKA-020E	35°F	-
SRN0199M6	KAKA-020E	30°F	-
SRN0199M6	KAKA-020E	25°F	14,150
SRN0199M6	KAKA-020E	20°F	12,850
SRN0199M6	KAKA-020E	15°F	11,450
SRN0200M6	ERCA-021E	40°F	-
SRN0200M6	ERCA-021E	35°F	-
SRN0200M6	ERCA-021E	30°F	-
SRN0200M6	ERCA-021E	25°F	18,480
SRN0200M6	ERCA-021E	20°F	16,310
SRN0200M6	ERCA-021E	15°F	14,470
SRN0310M6	ERFA-031E	40°F	-
SRN0310M6	ERFA-031E	35°F	-
SRN0310M6	ERFA-031E	30°F	-
SRN0310M6	ERFA-031E	25°F	27,080
SRN0310M6	ERFA-031E	20°F	24,080
SRN0310M6	ERFA-031E	15°F	21,380
SRN0500M6	2DC3R53KE	40°F	58,540
SRN0500M6	2DC3R53KE	35°F	52,600
SRN0500M6	2DC3R53KE	30°F	47,090
SRN0500M6	2DC3R53KE	25°F	42,030
SRN0500M6	2DC3R53KE	20°F	37,370
SRN0500M6	2DC3R53KE	15°F	33,050
Low Temperature (R-404A/507)			
SRN0150L6	KALA-016E	0°F	11,020
SRN0150L6	KALA-016E	-10°F	8,480
SRN0150L6	KALA-016E	-20°F	6,470
SRN0150L6	KALA-016E	-25°F	5,510
SRN0150L6	KALA-016E	-30°F	4,620
SRN0150L6	KALA-016E	-40°F	2,790
SRN0200L6	EADA-020E	0°F	13,250
SRN0200L6	EADA-020E	-10°F	9,960
SRN0200L6	EADA-020E	-20°F	7,310

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
SRN0200L6	EADA-020E	-25°F	6,150
SRN0200L6	EADA-020E	-30°F	5,130
SRN0200L6	EADA-020E	-40°F	3,240
SRN0210L6	EAVA-021E	0°F	15,370
SRN0210L6	EAVA-021E	-10°F	11,550
SRN0210L6	EAVA-021E	-20°F	8,270
SRN0210L6	EAVA-021E	-25°F	6,890
SRN0210L6	EAVA-021E	-30°F	5,610
SRN0210L6	EAVA-021E	-40°F	3,720
SRN0310E6	LACA-032E	0°F	-
SRN0310E6	LACA-032E	-10°F	-
SRN0310E6	LACA-032E	-20°F	17,070
SRN0310E6	LACA-032E	-25°F	14,310
SRN0310E6	LACA-032E	-30°F	11,960
SRN0310E6	LACA-032E	-40°F	7,930
SRN0310L6	LAHA-032E	0°F	24,910
SRN0310L6	LAHA-032E	-10°F	18,660
SRN0310L6	LAHA-032E	-20°F	13,250
SRN0310L6	LAHA-032E	-25°F	10,920
SRN0310L6	LAHA-032E	-30°F	8,790
SRN0310L6	LAHA-032E	-40°F	5,300
SRN0311L6	2DF3F16KE	0°F	32,860
SRN0311L6	2DF3F16KE	-10°F	25,330
SRN0311L6	2DF3F16KE	-20°F	19,080
SRN0311L6	2DF3F16KE	-25°F	16,320
SRN0311L6	2DF3F16KE	-30°F	13,760
SRN0311L6	2DF3F16KE	-40°F	9,250
SRN0400L6	2DL3F20KE	0°F	39,330
SRN0400L6	2DL3F20KE	-10°F	30,530
SRN0400L6	2DL3F20KE	-20°F	23,110
SRN0400L6	2DL3F20KE	-25°F	19,820
SRN0400L6	2DL3F20KE	-30°F	16,890
SRN0400L6	2DL3F20KE	-40°F	11,670
SRN0599L6	2DA3F23KE	0°F	44,630
SRN0599L6	2DA3F23KE	-10°F	34,870
SRN0599L6	2DA3F23KE	-20°F	26,710
SRN0599L6	2DA3F23KE	-25°F	23,110
SRN0599L6	2DA3F23KE	-30°F	19,840
SRN0599L6	2DA3F23KE	-40°F	13,860
SRN0600L6	2DB3F25KE	0°F	48,120
SRN0600L6	2DB3F25KE	-10°F	37,520

Remote Compressor Units



3/4 - 22 HP

Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions for High/Medium Temperature: 120°F Condensing Temperature, 8°F Subcooling

Capacity rating conditions for Low Temperature: 110°F Condensing Temperature, 6°F Subcooling

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
SRN0600L6	2DB3F25KE	-20°F	28,620
SRN0600L6	2DB3F25KE	-25°F	24,700
SRN0600L6	2DB3F25KE	-30°F	21,030
SRN0600L6	2DB3F25KE	-40°F	14,580
SRN0601L6	3DA3F28KE	0°F	53,640
SRN0601L6	3DA3F28KE	-10°F	42,080
SRN0601L6	3DA3F28KE	-20°F	32,330
SRN0601L6	3DA3F28KE	-25°F	27,980
SRN0601L6	3DA3F28KE	-30°F	24,080
SRN0601L6	3DA3F28KE	-40°F	17,190
SRN0750L6	3DB3F33KE	0°F	63,280
SRN0750L6	3DB3F33KE	-10°F	49,710
SRN0750L6	3DB3F33KE	-20°F	38,370
SRN0750L6	3DB3F33KE	-25°F	33,390
SRN0750L6	3DB3F33KE	-30°F	28,810
SRN0750L6	3DB3F33KE	-40°F	20,490
SRN0900L6	3DF3F40KE	0°F	77,800
SRN0900L6	3DF3F40KE	-10°F	60,950
SRN0900L6	3DF3F40KE	-20°F	46,850
SRN0900L6	3DF3F40KE	-25°F	40,700
SRN0900L6	3DF3F40KE	-30°F	35,020
SRN0900L6	3DF3F40KE	-40°F	25,140
SRN1000L6	3DS3F46KE	0°F	86,180
SRN1000L6	3DS3F46KE	-10°F	68,260
SRN1000L6	3DS3F46KE	-20°F	52,890
SRN1000L6	3DS3F46KE	-25°F	46,000
SRN1000L6	3DS3F46KE	-30°F	39,690
SRN1000L6	3DS3F46KE	-40°F	28,520
SRN1500L6	4DLNF63KE	0°F	116,390
SRN1500L6	4DLNF63KE	-10°F	92,330
SRN1500L6	4DLNF63KE	-20°F	72,720
SRN1500L6	4DLNF63KE	-25°F	64,020
SRN1500L6	4DLNF63KE	-30°F	55,780
SRN1500L6	4DLNF63KE	-40°F	39,900
SRN2200L6	4DTNF76KE	0°F	138,750
SRN2200L6	4DTNF76KE	-10°F	110,880
SRN2200L6	4DTNF76KE	-20°F	86,710
SRN2200L6	4DTNF76KE	-25°F	75,790
SRN2200L6	4DTNF76KE	-30°F	65,300
SRN2200L6	4DTNF76KE	-40°F	45,370

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
Medium & High Temperature (R-22)			
SRN0075H2	KAN1-0075	40°F	8,750
SRN0075H2	KAN1-0075	35°F	7,730
SRN0075H2	KAN1-0075	30°F	6,810
SRN0075H2	KAN1-0075	25°F	5,970
SRN0075H2	KAN1-0075	20°F	5,190
SRN0075H2	KAN1-0075	15°F	4,460
SRN0075M2	KAE1-0075	40°F	-
SRN0075M2	KAE1-0075	35°F	-
SRN0075M2	KAE1-0075	30°F	-
SRN0075M2	KAE1-0075	25°F	7,110
SRN0075M2	KAE1-0075	20°F	6,320
SRN0075M2	KAE1-0075	15°F	5,580
SRN0090H2	KARA-010E	40°F	11,800
SRN0090H2	KARA-010E	35°F	10,500
SRN0090H2	KARA-010E	30°F	9,390
SRN0090H2	KARA-010E	25°F	8,360
SRN0090H2	KARA-010E	20°F	7,420
SRN0090H2	KARA-010E	15°F	6,560
SRN0100H2	KAM1-0100	40°F	13,570
SRN0100H2	KAM1-0100	35°F	12,060
SRN0100H2	KAM1-0100	30°F	10,820
SRN0100H2	KAM1-0100	25°F	9,580
SRN0100H2	KAM1-0100	20°F	8,480
SRN0100H2	KAM1-0100	15°F	7,460
SRN0150H2	KAGA-0150	40°F	15,550
SRN0150H2	KAGA-0150	35°F	13,830
SRN0150H2	KAGA-0150	30°F	12,270
SRN0150H2	KAGA-0150	25°F	10,920
SRN0150H2	KAGA-0150	20°F	9,630
SRN0150H2	KAGA-0150	15°F	8,430
SRN0200H2	ERA1-0200	40°F	21,160
SRN0200H2	ERA1-0200	35°F	18,200
SRN0200H2	ERA1-0200	30°F	15,600
SRN0200H2	ERA1-0200	25°F	13,100
SRN0200H2	ERA1-0200	20°F	10,920
SRN0200H2	ERA1-0200	15°F	8,790
SRN0200M2	ERC1-0200	40°F	-
SRN0200M2	ERC1-0200	35°F	-
SRN0200M2	ERC1-0200	30°F	-

Section 2

¾ - 22 HP

Performance Data

Models with Semi-Hermetic Compressors

Capacity rating conditions for High/Medium Temperature: 120°F Condensing Temperature, 8°F Subcooling

Capacity rating conditions for Low Temperature: 110°F Condensing Temperature, 6°F Subcooling

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
SRN0200M2	ERC1-0200	25°F	17,260
SRN0200M2	ERC1-0200	20°F	15,080
SRN0200M2	ERC1-0200	15°F	13,100
SRN0300H2	ERF1-0311	40°F	35,780
SRN0300H2	ERF1-0311	35°F	32,030
SRN0300H2	ERF1-0311	30°F	28,700
SRN0300H2	ERF1-0311	25°F	25,580
SRN0300H2	ERF1-0311	20°F	22,670
SRN0300H2	ERF1-0311	15°F	20,070
SRN0499H2	2DC3R53KE	40°F	58,860
SRN0499H2	2DC3R53KE	35°F	52,520
SRN0499H2	2DC3R53KE	30°F	46,700
SRN0499H2	2DC3R53KE	25°F	41,290
SRN0499H2	2DC3R53KE	20°F	36,300
SRN0499H2	2DC3R53KE	15°F	31,620
SRN0500H2	2DD3R63KE	40°F	68,220
SRN0500H2	2DD3R63KE	35°F	61,050
SRN0500H2	2DD3R63KE	30°F	54,390
SRN0500H2	2DD3R63KE	25°F	48,320
SRN0500H2	2DD3R63KE	20°F	42,640
SRN0500H2	2DD3R63KE	15°F	37,340
SRN0750H2	2DL3R78KE	40°F	85,590
SRN0750H2	2DL3R78KE	35°F	76,860
SRN0750H2	2DL3R78KE	30°F	68,850
SRN0750H2	2DL3R78KE	25°F	61,380
SRN0750H2	2DL3R78KE	20°F	54,500
SRN0750H2	2DL3R78KE	15°F	48,050
SRN0760H2	2DA3R89KE	40°F	96,510
SRN0760H2	2DA3R89KE	35°F	86,940
SRN0760H2	2DA3R89KE	30°F	78,000
SRN0760H2	2DA3R89KE	25°F	69,680
SRN0760H2	2DA3R89KE	20°F	61,780
SRN0760H2	2DA3R89KE	15°F	54,290
SRN0761H2	3DA3R10ME	40°F	116,480
SRN0761H2	3DA3R10ME	35°F	105,040
SRN0761H2	3DA3R10ME	30°F	94,430
SRN0761H2	3DA3R10ME	25°F	84,740
SRN0761H2	3DA3R10ME	20°F	75,710
SRN0761H2	3DA3R10ME	15°F	67,390
SRN1000H2	3DB3R12ME	40°F	138,320
SRN1000H2	3DB3R12ME	35°F	124,800

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
SRN1000H2	3DB3R12ME	30°F	112,320
SRN1000H2	3DB3R12ME	25°F	101,120
SRN1000H2	3DB3R12ME	20°F	90,690
SRN1000H2	3DB3R12ME	15°F	81,020
SRN1500H2	3DS3R17ME	40°F	182,000
SRN1500H2	3DS3R17ME	35°F	165,360
SRN1500H2	3DS3R17ME	30°F	148,720
SRN1500H2	3DS3R17ME	25°F	134,160
SRN1500H2	3DS3R17ME	20°F	120,640
SRN1500H2	3DS3R17ME	15°F	108,160
SRN2000H2	4DBNR20ME	40°F	228,800
SRN2000H2	4DBNR20ME	35°F	205,920
SRN2000H2	4DBNR20ME	30°F	184,080
SRN2000H2	4DBNR20ME	25°F	163,800
SRN2000H2	4DBNR20ME	20°F	145,600
SRN2000H2	4DBNR20ME	15°F	1,284,400

Models with Scroll Compressors

Capacity rating conditions for Extended/Medium Temperature: 120°F Condensing Temperature, 8°F Subcooling
 Capacity rating conditions for Low Temperature: 110°F Condensing Temperature, 6°F Subcooling

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
Extended Temperature (R-404A/507)			
ZRN020X6	ZS15K4E	40°F	23,980
ZRN020X6	ZS15K4E	30°F	19,980
ZRN020X6	ZS15K4E	20°F	16,520
ZRN020X6	ZS15K4E	10°F	13,500
ZRN020X6	ZS15K4E	0°F	11,020
ZRN020X6	ZS15K4E	-10°F	8,820
ZRN020X6	ZS15K4E	-20°F	6,990
ZRN025X6	ZS19K4E	40°F	29,590
ZRN025X6	ZS19K4E	30°F	246,320
ZRN025X6	ZS19K4E	20°F	20,300
ZRN025X6	ZS19K4E	10°F	16,630
ZRN025X6	ZS19K4E	0°F	13,500
ZRN025X6	ZS19K4E	-10°F	10,910
ZRN025X6	ZS19K4E	-20°F	8,620
ZRN030X6	ZS21K4E	40°F	32,830
ZRN030X6	ZS21K4E	30°F	27,220
ZRN030X6	ZS21K4E	20°F	22,460
ZRN030X6	ZS21K4E	10°F	18,470
ZRN030X6	ZS21K4E	0°F	15,120
ZRN030X6	ZS21K4E	-10°F	12,200
ZRN030X6	ZS21K4E	-20°F	9,830
ZRN035X6	ZS26K4E	40°F	40,930
ZRN035X6	ZS26K4E	30°F	34,020
ZRN035X6	ZS26K4E	20°F	28,190
ZRN035X6	ZS26K4E	10°F	23,110
ZRN035X6	ZS26K4E	0°F	18,790
ZRN035X6	ZS26K4E	-10°F	15,230
ZRN035X6	ZS26K4E	-20°F	12,200
ZRN045X6	ZS30K4E	40°F	47,090
ZRN045X6	ZS30K4E	30°F	39,200
ZRN045X6	ZS30K4E	20°F	32,400
ZRN045X6	ZS30K4E	10°F	26,570
ZRN045X6	ZS30K4E	0°F	21,490
ZRN045X6	ZS30K4E	-10°F	17,280
ZRN045X6	ZS30K4E	-20°F	13,720
ZRN055X6	ZS38K4E	40°F	58,320
ZRN055X6	ZS38K4E	30°F	48,170
ZRN055X6	ZS38K4E	20°F	39,740
ZRN055X6	ZS38K4E	10°F	32,510
ZRN055X6	ZS38K4E	0°F	26,460

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
ZRN055X6	ZS38K4E	-10°F	21,380
ZRN055X6	ZS38K4E	-20°F	17,170
ZRN060X6	ZS45K4E	40°F	69,660
ZRN060X6	ZS45K4E	30°F	57,780
ZRN060X6	ZS45K4E	20°F	47,630
ZRN060X6	ZS45K4E	10°F	39,100
ZRN060X6	ZS45K4E	0°F	31,970
ZRN060X6	ZS45K4E	-10°F	25,920
ZRN060X6	ZS45K4E	-20°F	20,950
Medium Temperature (R-404A/507)			
ZRN0650M6	ZB50KCE	40°F	83,380
ZRN0650M6	ZB50KCE	30°F	69,010
ZRN0650M6	ZB50KCE	20°F	56,380
ZRN0650M6	ZB50KCE	10°F	44,500
ZRN0700M6	ZB58KCE	40°F	92,020
ZRN0700M6	ZB58KCE	30°F	76,030
ZRN0700M6	ZB58KCE	20°F	62,320
ZRN0700M6	ZB58KCE	10°F	50,110
ZRN0750M6	ZB66KCE	40°F	102,600
ZRN0750M6	ZB66KCE	30°F	85,320
ZRN0750M6	ZB66KCE	20°F	70,200
ZRN0750M6	ZB66KCE	10°F	57,240
ZRN0860M6	ZB76KCE	40°F	122,040
ZRN0860M6	ZB76KCE	30°F	101,200
ZRN0860M6	ZB76KCE	20°F	83,380
ZRN0860M6	ZB76KCE	10°F	68,360
ZRN1000M6	ZS92K4E	40°F	145,800
ZRN1000M6	ZS92K4E	30°F	122,040
ZRN1000M6	ZS92K4E	20°F	100,440
ZRN1000M6	ZS92K4E	10°F	82,620
ZRN1400M6	ZS11M4E	40°F	166,320
ZRN1400M6	ZS11M4E	30°F	139,320
ZRN1400M6	ZS11M4E	20°F	115,560
ZRN1400M6	ZS11M4E	10°F	95,040
Low Temperature (R-404A/507)			
ZRN020L6	ZF06K4E	0°F	11,550
ZRN020L6	ZF06K4E	-10°F	9,380
ZRN020L6	ZF06K4E	-20°F	7,520
ZRN020L6	ZF06K4E	-30°F	5,900
ZRN020L6	ZF06K4E	-40°F	4,450
ZRN025L6	ZF08K4E	0°F	14,730

¾ - 22 HP

Performance Data

Models with Scroll Compressors

Capacity rating conditions for Extended/Medium Temperature: 120°F Condensing Temperature, 8°F Subcooling

Capacity rating conditions for Low Temperature: 110°F Condensing Temperature, 6°F Subcooling

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
ZRN025L6	ZF08K4E	-10°F	11,870
ZRN025L6	ZF08K4E	-20°F	9,510
ZRN025L6	ZF08K4E	-30°F	7,480
ZRN025L6	ZF08K4E	-40°F	5,770
ZRN030L6	ZF09K4E	0°F	16,320
ZRN030L6	ZF09K4E	-10°F	13,140
ZRN030L6	ZF09K4E	-20°F	10,580
ZRN030L6	ZF09K4E	-30°F	8,360
ZRN030L6	ZF09K4E	-40°F	6,440
ZRN035L6	ZF11K4E	0°F	20,350
ZRN035L6	ZF11K4E	-10°F	16,430
ZRN035L6	ZF11K4E	-20°F	13,140
ZRN035L6	ZF11K4E	-30°F	10,390
ZRN035L6	ZF11K4E	-40°F	8,020
ZRN045L6	ZF13K4E	0°F	23,430
ZRN045L6	ZF13K4E	-10°F	18,760
ZRN045L6	ZF13K4E	-20°F	14,840
ZRN045L6	ZF13K4E	-30°F	11,660
ZRN045L6	ZF13K4E	-40°F	8,950
ZRN055L6	ZF15K4E	0°F	28,730
ZRN055L6	ZF15K4E	-10°F	23,210
ZRN055L6	ZF15K4E	-20°F	18,550
ZRN055L6	ZF15K4E	-30°F	14,630
ZRN055L6	ZF15K4E	-40°F	11,340
ZRN060L6	ZF18K4E	0°F	34,560
ZRN060L6	ZF18K4E	-10°F	27,980
ZRN060L6	ZF18K4E	-20°F	22,470
ZRN060L6	ZF18K4E	-30°F	17,810
ZRN060L6	ZF18K4E	-40°F	13,670
ZRN0750L6	ZF24K4E	0°F	42,190
ZRN0750L6	ZF24K4E	-10°F	34,130
ZRN0750L6	ZF24K4E	-20°F	27,240
ZRN0750L6	ZF24K4E	-30°F	21,310
ZRN0750L6	ZF24K4E	-40°F	16,320
ZRN1000L6	ZF33K4E	0°F	59,360
ZRN1000L6	ZF33K4E	-10°F	47,810
ZRN1000L6	ZF33K4E	-20°F	38,160
ZRN1000L6	ZF33K4E	-30°F	29,790
ZRN1000L6	ZF33K4E	-40°F	22,470
ZRN1300L6	ZF40K4E	0°F	72,610
ZRN1300L6	ZF40K4E	-10°F	59,360

Climate Control Base Model	Compressor	Suction Temp. °F	Capacity (BTUH)
ZRN1300L6	ZF40K4E	-20°F	47,590
ZRN1300L6	ZF40K4E	-30°F	37,630
ZRN1300L6	ZF40K4E	-40°F	28,730
ZRN1500L6	ZF48K4E	0°F	89,040
ZRN1500L6	ZF48K4E	-10°F	72,080
ZRN1500L6	ZF48K4E	-20°F	57,240
ZRN1500L6	ZF48K4E	-30°F	45,160
ZRN1500L6	ZF48K4E	-40°F	34,770

Remote Compressor Units



3/4 - 22 HP

Unit Specifications

Models with Semi-Hermetic Compressors

Climate Control Base Model	Compressor	Connections (in.)				Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
		Suction	Discharge	Liquid Line	Condenser Return		Depth (in.)	Width (in.)	Height (in.)	
Medium Temperature (R-404A/507)										
SRN0200M6	ERCA-021E	7/8	1/2	3/8	1/2	26.0	35	23 3/4	36 3/8	245
SRN0310M6	ERFA-031E	1 1/8	5/8	1/2	5/8	57.0	40	26 3/4	39 1/4	305
SRN0500M6	2DC3R53KE	1 3/8	7/8	5/8	5/8	57.0	42	30 3/8	39 1/4	375
Low Temperature (R-404A/507)										
SRN0150L6	KALA-016E	7/8	1/2	3/8	3/8	26.0	35	23 3/4	36 3/8	175
SRN0200L6	EADA-020E	7/8	1/2	3/8	1/2	26.0	35	23 3/4	36 3/8	305
SRN0210L6	EAVA-021E	7/8	1/2	3/8	1/2	26.0	35	23 3/4	36 3/8	305
SRN0310L6	LAHA-032E	1 1/8	5/8	1/2	5/8	26.0	40	26 3/4	39 1/4	305
SRN0310E6	LACA-032E	1 1/8	5/8	1/2	5/8	26.0	40	26 3/4	39 1/4	305
SRN0311L6	2DF3F16KE	1 3/8	7/8	1/2	5/8	57.0	40	26 3/4	39 1/4	320
SRN0400L6	2DL3F20KE	1 3/8	7/8	1/2	5/8	57.0	40	26 3/4	39 1/4	360
SRN0599L6	2DA3F34KE	1 3/8	7/8	5/8	5/8	57.0	42	30 3/8	39 1/4	390
SRN0600L6	2DB3F25KE	1 3/8	7/8	5/8	5/8	57.0	42	30 3/8	39 1/4	390
SRN0601L6	3DA3F28KE	1 3/8	1 1/8	5/8	5/8	57.0	42	30 3/8	39 1/4	405
SRN0750L6	3DB3F33KE	1 5/8	1 1/8	5/8	7/8	106.0	47	35 3/8	43 1/2	385
SRN0900L6	3DF3F40KE	1 5/8	1 1/8	5/8	7/8	106.0	47	35 3/8	43 1/2	465
SRN1000L6	3DS3F46KE	1 5/8	1 1/8	7/8	7/8	106.0	47	35 3/8	43 1/2	595
SRN1500L6	4DLNF63KE	2 1/8	1 1/8	7/8	7/8	106.0	47	35 3/8	43 1/2	655
SRN2200L6	4DTNF76KE	2 1/8	1 1/8	7/8	7/8	106.0	47	35 3/8	43 1/2	725
Medium & High Temperature (R-22)										
SRN0075H2	KAN1-0075	5/8	3/8	3/8	3/8	30.0	35	23 3/4	36 3/8	155
SRN0075M2	KAE1-0075	5/8	3/8	3/8	3/8	30.0	35	23 3/4	36 3/8	155
SRN0090H2	KARA-010E	5/8	1/2	3/8	3/8	30.0	35	23 3/4	36 3/8	160
SRN0090M2	KARA-010E	7/8	1/2	3/8	3/8	26.0	35	23 3/4	36 3/8	160
SRN0100H2	KAM1-0100	7/8	1/2	3/8	3/8	30.0	35	23 3/4	36 3/8	160
SRN0150H2	KAGA-0150	7/8	1/2	3/8	3/8	30.0	35	23 3/4	36 3/8	175
SRN0199M2	KAKA-020E	7/8	1/2	3/8	1/2	26.0	35	23 3/4	36 3/8	200
SRN0200H2	ERA1-0200	7/8	1/2	3/8	1/2	30.0	35	23 3/4	36 3/8	245
SRN0200M2	ERC1-0200	7/8	1/2	3/8	1/2	30.0	35	23 3/4	36 3/8	245
SRN0300H2	ERF1-0311	1 1/8	5/8	1/2	5/8	66.0	40	26 3/4	39 1/4	305
SRN0500H2	2DD3R63KE	1 3/8	7/8	5/8	5/8	66.0	42	30 3/8	39 1/4	375
SRN0750H2	2DL3R78KE	1 3/8	7/8	5/8	7/8	122.0	47	35 3/8	43 1/2	385
SRN0760H2	2DA3R89KE	1 3/8	7/8	5/8	7/8	122.0	47	35 3/8	43 1/2	385
SRN0761H2	3DA3R10ME	1 3/8	1 1/8	5/8	7/8	122.0	47	35 3/8	43 1/2	385
SRN1000H2	3DB3R12ME	1 5/8	1 1/8	7/8	7/8	122.0	47	35 3/8	43 1/2	595
SRN1500H2	3DS3R17ME	1 5/8	1 1/8	7/8	1 1/8	171.0	47	35 3/8	43 1/2	615
SRN2000H2	4DBNR20ME	1 5/8	1 3/8	7/8	1 1/8	171.0	47	35 3/8	43 1/2	665

¾ - 22 HP

Unit Specifications

Models with Scroll Compressors

Climate Control Base Model	Compressor	Connections (in.)				Receiver 90% Full (lbs.)	Dimensions			Approx. Net Weight (lbs.)
		Suction	Discharge	Liquid Line	Condenser Return		Depth (in.)	Width (in.)	Height (in.)	
Extended Temperature (R-404A/507)										
ZRN020X6	ZS15K4E	7/8	3/8	1/2	1/2	20.0	29	25	28	163
ZRN025X6	ZS19K4E	7/8	3/8	1/2	1/2	20.0	29	25	28	169
ZRN030X6	ZS21K4E	7/8	3/8	1/2	1/2	20.0	29	25	28	171
ZRN035X6	ZS26K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	186
ZRN045X6	ZS30K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	207
ZRN055X6	ZS38K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	226
ZRN060X6	ZS45K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	241
Medium Temperature (R-404A/507)										
ZRN0650M6	ZB50KCE	1 3/8	7/8	5/8	5/8	106.0	47	35 3/8	43 1/2	192
ZRN0700M6	ZB58KCE	1 3/8	1 1/8	5/8	5/8	106.0	47	35 3/8	43 1/2	194
ZRN0750M6	ZB66KCE	1 3/8	1 1/8	5/8	5/8	106.0	47	35 3/8	43 1/2	195
ZRN0860M6	ZB76KCE	1 5/8	1 1/8	7/8	7/8	106.0	47	35 3/8	43 1/2	354
ZRN1000M6	ZS92K4E	1 5/8	1 1/8	7/8	7/8	149.0	47	35 3/8	43 1/2	442
ZRN1400M6	ZS11M4E	1 5/8	1 1/8	7/8	7/8	149.0	47	35 3/8	43 1/2	465
Low Temperature (R-404A/507)										
ZRN020L6	ZF06K4E	7/8	3/8	1/2	1/2	20.0	27	22	28	155
ZRN025L6	ZF08K4E	7/8	3/8	1/2	1/2	20.0	27	22	28	159
ZRN030L6	ZF09K4E	7/8	3/8	1/2	1/2	20.0	27	22	28	159
ZRN035L6	ZF11K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	165
ZRN045L6	ZF13K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	185
ZRN055L6	ZF15K4E	7/8	1/2	1/2	1/2	20.0	27	22	28	201
ZRN060L6	ZF18K4E	7/8	1/2	1/2	1/2	20.0	29	25	28	201
ZRN0750L6	ZF24K4E	1 3/8	7/8	5/8	5/8	57.0	42 1/2	30 3/8	39 1/4	286
ZRN1000L6	ZF33K4E	1 5/8	1 1/8	5/8	5/8	106.0	47	35 3/8	43 1/2	221
ZRN1300L6	ZF40K4E	1 5/8	1 1/8	5/8	5/8	106.0	47	35 3/8	43 1/2	292
ZRN1500L6	ZF48K4E	1 5/8	1 1/8	7/8	7/8	106.0	47	35 3/8	43 1/2	335

Section 2

Remote Compressor Units



¾ - 22 HP

Electrical Data

Models with Semi-Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
Medium Temperature (R-404A/507)													
SRN0090M6B	208-230/1/60	6.4	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0090M6C	208-230/3/60	3.8	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0199M6B	208-230/1/60	9.1	55.0	15.0	20	25.0	25	6	20 (1)	50.0	50	12	40 (1)
SRN0199M6C	208-230/3/60	5.8	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0200M6C	208-230/3/60	7.9	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0310M6C	208-230/3/60	11.2	82.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0310M6D	460/3/60	5.2	41.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SRN0500M6C	208-230/3/60	20.0	120.0	25.0	45	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SRN0500M6D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
Low Temperature (R-404A/507)													
SRN0150L6B	208-230/1/60	8.9	55.0	15.0	20	25.0	25	6	20 (1)	-	-	-	-
SRN0150L6C	208-230/3/60	5.0	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0150L6D	460/3/60	3.1	25.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0200L6C	208-230/3/60	6.1	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0210L6B	208-230/1/60	13.2	102.0	20.0	25	25.0	35	6	20 (1)	-	-	-	-
SRN0210L6C	208-230/3/60	6.6	50.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0210L6D	460/3/60	2.9	26.6	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0310L6C	208-230/3/60	11.5	112.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0310L6D	460/3/60	5.4	56.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SRN0310E6C	208-230/3/60	11.5	112.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0310E6D	460/3/60	5.4	56.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SRN0311L6C	208-230/3/60	14.4	102.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SRN0311L6D	460/3/60	7.1	52.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	40 (1)
SRN0400L6C	208-230/3/60	23.6	161.0	29.5	50	35.5	50	6	20 (1)	50.0	60	12	40 (1)
SRN0400L6D	460/3/60	9.2	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SRN0599L6C	208-230/3/60	25.8	161.0	32.3	50	38.3	60	6	20 (1)	50.0	70	12	40 (1)
SRN0599L6D	460/3/60	9.2	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SRN0600L6C	208-230/3/60	25.3	161.0	31.7	50	37.7	60	6	20 (1)	50.0	60	12	40 (1)
SRN0600L6D	460/3/60	11.9	80.0	15.0	25	20.0	25	3	10 (1)	25.0	30	6	20 (1)
SRN0601L6C	208-230/3/60	24.0	150.0	30.1	50	36.1	60	6	20 (1)	50.0	60	12	40 (1)
SRN0601L6D	460/3/60	10.8	77.0	15.0	20	20.0	25	3	10 (1)	25.0	30	6	20 (1)
SRN0750L6C	208-230/3/60	27.6	161.0	34.5	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SRN0750L6D	460/3/60	14.1	83.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SRN0900L6C	208-230/3/60	33.2	215.0	41.5	70	53.5	80	12	40 (1)	87.5	90	16	70 (2)
SRN0900L6D	460/3/60	15.0	106.0	20.0	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
SRN1000L6C	208-230/3/60	37.2	215.0	46.5	80	58.5	90	12	40 (1)	87.5	90	16	70 (2)
SRN1000L6D	460/3/60	16.7	106.0	20.8	35	26.8	40	6	20 (1)	50.0	50	12	40 (1)
SRN1500L6C	208-230/3/60	47.2	278.0	59.0	100	87.5	110	16	70 (2)	120.0	125	25	96 (2)
SRN1500L6D	460/3/60	23.6	139.0	29.5	50	50.0	60	12	40 (1)	87.5	90	16	70 (2)
SRN2200L6C	208-230/3/60	57.7	374.0	74.0	125	90.0	125	16	70 (2)	120.0	150	25	96 (2)
SRN2200L6D	460/3/60	28.8	187.0	37.0	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)

¾ - 22 HP

Electrical Data

Models with Semi-Hermetic Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
Medium & High Temperature (R-22)													
SRN0075H2B	208-230/1/60	5.4	36.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0075H2C	208-230/3/60	3.1	19.9	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0075M2B	208-230/1/60	4.9	36.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0075M2C	208-230/3/60	3.0	19.9	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0090H2B	208-230/1/60	6.4	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0090H2C	208-230/3/60	3.8	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0100H2B	208-230/1/60	6.7	40.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0100H2C	208-230/3/60	4.0	27.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0100H2D	460/3/60	1.0	13.5	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0150H2B	208-230/1/60	8.6	55.0	15.0	15	25.0	25	6	20 (1)	50.0	50	12	40 (1)
SRN0150H2C	208-230/3/60	4.9	35.5	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0150H2D	460/3/60	2.2	18.2	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0200H2C	208-230/3/60	5.9	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0200H2D	460/3/60	3.1	46.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0200M2C	208-230/3/60	6.1	46.0	15.0	15	25.0	25	6	20 (1)	-	-	-	-
SRN0200M2D	460/3/60	3.3	23.0	15.0	15	15.0	15	3	10 (1)	-	-	-	-
SRN0300H2C	208-230/3/60	11.2	82.0	15.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0300H2D	460/3/60	5.2	41.0	15.0	15	15.0	15	3	10 (1)	25.0	25	6	20 (1)
SRN0499H2C	208-230/3/60	20.0	120.0	25.0	45	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SRN0499H2D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SRN0500H2C	208-230/3/60	20.0	120.0	25.0	40	31.0	50	6	20 (1)	50.0	50	12	40 (1)
SRN0500H2D	460/3/60	9.4	60.0	15.0	20	15.0	20	3	10 (1)	25.0	25	6	20 (1)
SRN0750H2C	208-230/3/60	28.3	169.0	35.4	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SRN0750H2D	460/3/60	12.4	85.0	20.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0760H2C	208-230/3/60	28.7	169.0	35.9	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SRN0760H2D	460/3/60	12.6	85.0	20.0	25	25.0	30	6	20 (1)	50.0	50	12	40 (1)
SRN0761H2C	208-230/3/60	36.8	215.0	46.0	80	58.0	90	12	40 (1)	87.5	90	16	70 (2)
SRN0761H2D	460/3/60	17.9	106.0	22.4	40	28.4	45	6	20 (1)	50.0	50	12	40 (1)
SRN1000H2C	208-230/3/60	39.1	215.0	48.9	80	60.9	90	12	40 (1)	87.5	100	16	70 (2)
SRN1000H2D	460/3/60	17.9	106.0	22.4	40	28.4	45	6	20 (1)	50.0	50	12	40 (1)
SRN1500H2C	208-230/3/60	53.5	275.0	66.9	110	87.5	125	16	70 (2)	120.0	125	25	96 (2)
SRN1500H2D	460/3/60	26.0	138.0	32.5	50	50.0	70	12	40 (1)	87.5	90	16	70 (2)
SRN2000H2C	208-230/3/60	64.7	374.0	80.9	125	96.9	150	16	70 (2)	120.0	125	25	96 (2)
SRN2000H2D	460/3/60	32.4	187.0	40.5	70	52.5	80	12	40 (1)	87.5	90	16	70 (2)

Remote Compressor Units



¾ - 22 HP

Electrical Data

Models Scroll Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
Extended Temperature (R-404A/507)													
ZRN020X6B	208-230/1/60	12.2	61.0	27.4	25	37.5	40	12	30 (1)	-	-	-	-
ZRN020X6C	208-230/3/60	8.3	55.0	18.8	15	37.5	40	12	30 (1)	-	-	-	-
ZRN020X6D	460/3/60	3.8	27.0	8.7	15	23.8	25	10	19 (1)	-	-	-	-
ZRN026X6B	208-230/1/60	14.7	73.0	33.2	30	37.5	45	12	30 (1)	-	-	-	-
ZRN025X6C	208-230/3/60	8.7	63.0	19.5	15	37.5	40	12	30 (1)	-	-	-	-
ZRN025X6D	460/3/60	4.5	31.0	10.1	15	23.8	25	10	19 (1)	-	-	-	-
ZRN030X6B	208-230/1/60	14.7	88.0	33.2	30	37.5	45	12	30 (1)	-	-	-	-
ZRN020X6C	208-230/3/60	9.9	77.0	22.4	20	37.5	40	12	30 (1)	-	-	-	-
ZRN020X6D	460/3/60	5.1	39.0	11.5	15	23.8	25	10	19 (1)	-	-	-	-
ZRN035X6B	208-230/1/60	18.6	109.0	41.8	40	37.5	50	12	30 (1)	-	-	-	-
ZRN035X6C	208-230/3/60	12.2	88.0	27.4	25	37.5	40	12	30 (1)	-	-	-	-
ZRN035X6D	460/3/60	6.4	44.0	14.4	15	23.8	25	9	19 (1)	-	-	-	-
ZRN045X6B	208-230/1/60	24.0	129.0	54.1	50	58.8	60	11	47 (1)	-	-	-	-
ZRN045X6C	208-230/3/60	13.5	99.0	30.3	30	43.8	45	12	35 (1)	-	-	-	-
ZRN045X6D	460/3/60	7.4	49.5	16.6	15	28.8	30	11	23 (1)	-	-	-	-
ZRN055X6B	208-230/1/60	28.5	169.0	64.2	60	58.8	70	12	40 (1)	-	-	-	-
ZRN055X6C	208-230/3/60	19.2	123.0	43.3	40	43.8	50	12	35 (1)	-	-	-	-
ZRN055X6D	460/3/60	8.7	62.0	19.5	15	28.8	30	10	23 (1)	-	-	-	-
ZRN060X6C	208-230/3/60	22.8	156.0	51.2	50	40.4	60	12	30 (1)	-	-	-	-
ZRN060X6D	460/3/60	8.3	70.0	18.8	15	28.8	30	10.6	23 (1)	-	-	-	-
Medium Temperature (R-404A/507)													
ZRN0650M6C	208-230/3/60	25.6	196.0	57.7	50	50.0	60	12	40 (1)	87.5	90	16	70 (2)
ZRN0650M6D	460/3/60	13.5	100.0	30.3	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
ZRN0700M6C	208-230/3/60	27.6	195.0	62.0	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
ZRN0700M6D	460/3/60	14.7	95.0	33.2	30	25.0	35	6	20 (1)	50.0	50	12	40 (1)
ZRN0750M6C	208-230/3/60	26.9	225.0	60.6	60	50.0	70	12	40 (1)	87.5	90	16	70 (2)
ZRN0750M6D	460/3/60	15.7	114.0	35.3	35	25.6	40	6	20 (1)	50.0	50	12	40 (1)
ZRN0860M6C	208-230/3/60	37.2	239.0	83.7	80	58.5	90	12	40 (1)	87.5	90	16	70 (2)
ZRN0860M6D	460/3/60	17.9	125.0	40.4	40	28.4	45	6	20 (1)	50.0	50	12	40 (1)
ZRN1000M6C	208-230/3/60	47.4	350.0	106.7	100	87.5	110	16	70 (2)	120.0	125	25	96 (2)
ZRN1000M6D	460/3/60	22.4	158.0	50.5	50	50.0	60	12	40 (1)	87.5	90	16	70 (2)
ZRN1400M6C	208-230/3/60	53.8	425.0	121.2	110	87.5	125	16	70 (2)	120.0	125	25	96 (2)
ZRN1400M6D	460/3/60	25.3	187.0	57.0	50	50.0	60	12	40 (1)	87.5	90	16	70 (2)
Low Temperature (R-404A/507)													
ZRN020L6B	208-230/1/60	12.2	61.0	20.0	25	37.5	40	12	30 (1)	-	-	-	-
ZRN020L6C	208-230/3/60	8.3	55.0	15.0	15	23.8	25	6	19 (1)	-	-	-	-
ZRN020L6D	460/3/60	3.8	27.0	15.0	15	23.8	25	10	19 (1)	-	-	-	-
ZRN025L6B	208-230/1/60	14.7	73.0	20.0	30	37.5	45	12	30 (1)	-	-	-	-
ZRN025L6C	208-230/3/60	8.7	63.0	15.0	15	23.8	25	6	19 (1)	-	-	-	-

¾ - 22 HP

Electrical Data

Models Scroll Compressors

Consult factory for 50 HZ applications.

Per UL and NEC, RLA values have been calculated by dividing the Maximum Continuous Current (MCC) by 1.56.

Number of defrost heater contactors in parentheses.

Climate Control Base Model	Voltage	Compressor		Air Defrost		Electric Defrost - Low Amps				Electric Defrost - High Amps			
		RLA	LRA	MCA	MOPD	MCA	MOPD	Evap Fans	Elec Htrs	MCA	MOPD	Evap Fans	Elec Htrs
ZRN025L6D	460/3/60	4.5	31.0	15.0	15	23.8	25	10	19 (1)	-	-	-	-
ZRN030L6B	208-230/1/60	12.8	88.0	20.0	25	37.5	40	12	30 (1)	-	-	-	-
ZRN030L6C	208-230/3/60	8.7	77.0	15.0	15	23.8	25	6	19 (1)	-	-	-	-
ZRN030L6D	460/3/60	4.5	39.0	15.0	15	23.8	25	10	19 (1)	-	-	-	-
ZRN035L6B	208-230/1/60	18.6	109.0	23.2	40	37.5	50	12	30 (1)	-	-	-	-
ZRN035L6C	208-230/3/60	10.9	88.0	15.0	20	28.8	30	6	23 (1)	-	-	-	-
ZRN035L6D	460/3/60	5.8	44.0	15.0	15	23.8	25	10	19 (1)	-	-	-	-
ZRN045L6B	208-230/1/60	22.4	129.0	28.0	50	39.0	60	11	30 (1)	-	-	-	-
ZRN045L6C	208-230/3/60	11.9	99.0	15.0	25	37.5	40	11	30 (1)	-	-	-	-
ZRN045L6D	460/3/60	6.4	49.5	15.0	15	23.8	25	9	19 (1)	-	-	-	-
ZRN055L6B	208-230/1/60	24.7	169.0	30.8	50	40.8	60	10	30 (1)	-	-	-	-
ZRN055L6C	208-230/3/60	17.0	123.0	21.2	35	37.5	45	10	30 (1)	-	-	-	-
ZRN055L6D	460/3/60	8.0	62.0	15.0	15	23.8	25	8	19 (1)	-	-	-	-
ZRN060L6C	208-230/3/60	19.6	156.0	24.4	40	43.8	50	12	35 (1)	-	-	-	-
ZRN060L6D	460/3/60	8.0	70.0	15.0	15	28.8	30	11	23 (1)	-	-	-	-
ZRN0750L6C	208-230/3/60	23.4	189.0	29.2	50	35.2	50	6	20 (1)	50.0	60	12	40 (1)
ZRN0750L6D	460/3/60	11.9	99.0	15.0	25	20.0	25	3	10 (1)	25.0	30	6	20 (1)
ZRN1000L6C	208-230/3/60	31.4	278.0	39.3	70	51.3	80	12	40 (1)	51.3	80	12	40 (1)
ZRN1000L6D	460/3/60	17.3	127.0	21.6	35	27.6	40	6	20 (1)	27.6	40	6	20 (1)
ZRN1300L6C	208-230/3/60	40.4	350.0	50.5	90	62.5	100	12	40 (1)	62.5	100	12	40 (1)
ZRN1300L6D	460/3/60	19.9	158.0	24.8	40	30.8	50	6	20 (1)	30.8	50	6	20 (1)
ZRN1500L6C	208-230/3/60	49.4	425.0	61.7	110	73.7	110	12	40 (1)	87.5	125	16	70 (2)
ZRN1500L6D	460/3/60	21.8	187.0	27.2	50	33.2	50	6	20 (1)	50.0	60	12	40 (1)

Top Mount

Overview



PRO³
Top Mount

Product Description

The PRO³ Top Mount packaged refrigeration system, designed to maximize storage space inside walk-in coolers and freezers, is ideal for small- to medium-sized restaurant and convenience store applications where holding temperature is the primary goal. The system combines evaporator and condensing unit into one unit expediting installation time and reducing refrigerant charge — saving time, money, and energy. The reduced refrigerant charge, compared to comparable split systems, and availability of EC motors, for increased energy efficiency, makes this product line qualified to be included in the **E Solutions™** product portfolio.

Certifications



Features and Benefits

Ease of Installation and Service

- Installation takes a fraction of the time required for a split system: no piping or loose components to install, refrigerant is pre-charged at factory and a field superheat adjustment is not required (see installation manual for more information)
- No drain line required on indoor models - come standard with a condensate evaporation pan
- Flexible design allows for multiple installation methods: optimized for indoor use, but outdoor models available with weatherhood installed. Outdoor models also come with: crankcase heater, drain line heater and fan-cycling for head pressure control
- Maximizes storage area in a cooler or freezer: evaporator grill mounts flush on a standard 4" or a recessed 5 1/2" ceiling panel

Ease of Use

- System is factory-assembled, evacuated, charged, run-tested and wired; no additional components or refrigerant charging required; most models come with a 26" power cord ready to plug-in
- Controls preset for typical applications: +38° F for high temp. coolers, +35° F for medium temp. coolers, -10° F for freezers and are easy to adjust

Reliable & Durable

- Electronic control provides accurate temperature control
- Liquid-line filter drier (medium and large cabinet only)
- Two-year parts warranty

Energy Efficient & Environmentally Friendly

- Optional EC motors available for evaporator section only
- Reduced refrigerant charge: system uses approximately 10 percent* of refrigerant required for a comparable split system

* Results may vary. Estimate based on a typical 25-foot refrigerant line length.

Nomenclature

P	T	N	072	H	6	B	H
Product Line	Design Orientation	Application	Model Size	Nominal Capacity	Refrigerant	Voltage	Motor
P = PRO3 Packaged Refrigeration System	T = Top Mount	N = Indoor T = Outdoor	# x 100 = BTUH	H = High/ Medium L = Low M = Medium	6 = R-404A	A = 115/1/60 B = 208-230/1/60 C = 208-230/3/60	H = PC E = EC (evap. only)

Top Mount

Performance & Specifications

Capacity Ratings: Medium & High Temperature – Air Defrost – Cooler Applications

* = T for Outdoor, N for Indoor

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature									
	80°F Ambient		90°F Ambient		95°F Ambient		100°F Ambient		110°F Ambient	
	35°F	38°F	35°F	38°F	35°F	38°F	35°F	38°F	35°F	38°F
PTN026H6	2,970	3,100	2,730	2,860	2,610	2,740	2,470	2,600	2,230	2,340
PTN031H6	3,590	3,750	3,300	3,450	3,160	3,310	2,980	3,140	2,390	2,820
PTN042H6	4,950	5,170	4,560	4,760	4,360	4,570	4,110	4,330	3,710	3,890
PT*050H6	5,820	6,080	5,350	5,600	5,120	5,370	4,830	5,080	4,360	4,570
PT*067H6	7,800	8,150	7,180	7,500	6,860	7,190	6,470	6,810	5,850	6,130
PT*076H6	8,610	9,060	7,890	8,260	7,500	7,840	7,100	7,420	6,270	6,540
PT*104H6	12,990	13,750	11,800	12,490	11,190	11,810	10,550	11,200	9,260	9,840
PT*133H6	14,780	15,600	13,530	14,260	12,790	13,500	12,040	12,750	10,740	11,310

Capacity Ratings: Medium Temperature – Electric Defrost – Cooler Applications

* = T for Outdoor, N for Indoor

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature				
	80°F Ambient		90°F Ambient		95°F Ambient
	35°F		35°F		35°F
PTN024M6	2,970		2,730		2,610
PTN029M6	3,590		3,300		3,160
PTN040M6	4,950		4,560		4,360
PT*047M6	5,820		5,350		5,120
PT*063M6	7,800		7,180		6,860
PT*072M6	8,610		7,890		7,500
PT*099M6	12,990		11,800		11,190
PT*128M6	14,780		13,530		12,790

Capacity Ratings: Low Temperature – Electric Defrost – Freezer Applications

* = T for Outdoor, N for Indoor

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature														
	80°F Ambient			90°F Ambient			95°F Ambient			100°F Ambient			110°F Ambient		
	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F
PT*021L6	3,220	2,590	1,610	2,860	2,300	1,430	2,680	2,160	1,340	2,470	1,990	1,230	2,080	1,670	1,030
PT*031L6	5,060	3,830	2,470	4,500	3,400	2,200	4,220	3,190	2,060	3,880	2,940	1,900	3,260	2,470	1,600
PT*044L6	7,040	5,440	4,080	6,260	4,830	3,630	5,870	4,530	3,400	5,400	4,170	3,130	4,540	3,500	2,630
PT*052L6	8,400	6,430	4,690	7,470	5,720	4,170	7,000	5,360	3,910	6,440	4,930	3,600	5,410	4,140	3,020
PT*069L6	10,870	8,520	6,300	9,670	7,850	5,600	9,060	7,100	5,250	8,340	6,530	4,830	7,010	5,490	4,060

PRO³ Packaged Refrigeration System



Top Mount

Performance & Specifications

Specifications – All Models

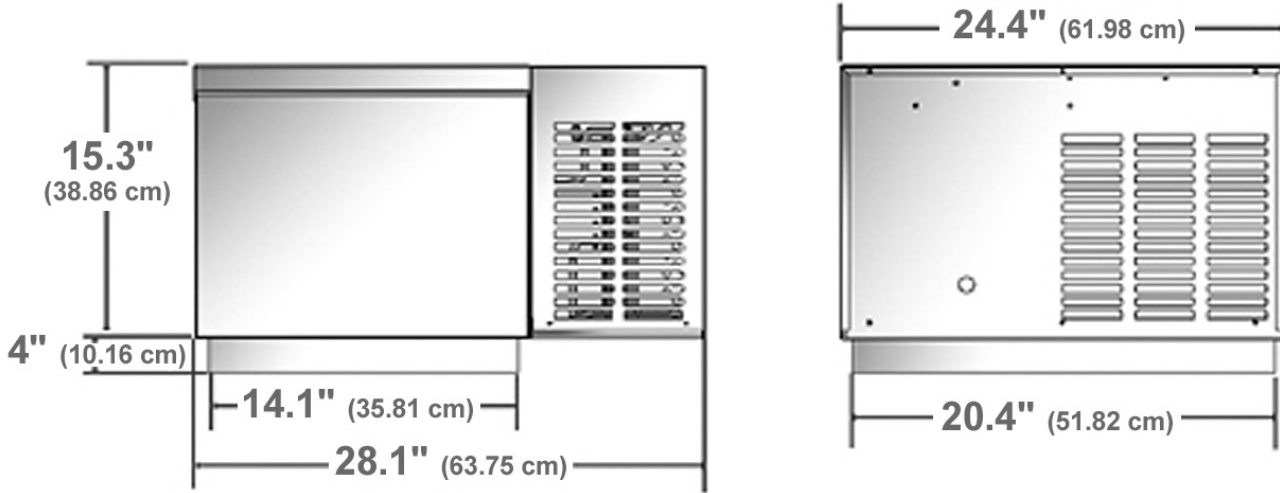
* = T for Outdoor, N for Indoor.

Climate Control Base Model	Voltage	MCA	MOPD	Unit Amps	Evap. Fans CFM	Cabinet Size	Refrig. Charge R-404A (lbs.)	Approx. Net Weight (lbs.)
PTN026H6A	115/1/60	7.4	15	5.9	340	Small	0.80	88
PTN031H6A	115/1/60	8.3	15	6.9	340	Small	1.00	90
PTN042H6A	115/1/60	11.3	15	9.3	340	Small	0.90	92
PTN050H6A	115/1/60	14	20	11.6	350	Medium	1.70	192
PT*050H6B	208-230/1/60	7	15	5.9	350	Medium	1.70	192
PT*067H6B	208-230/1/60	11.5	15	9.5	550	Medium	1.80	207
PT*076H6B	208-230/1/60	9.3	15	7.8	500	Medium	2.00	211
PT*104H6B	208-230/1/60	14.8	20	12.4	875	Large	2.90	270
PT*104H6C	208-230/3/60	11	15	9.3	875	Large	2.90	265
PT*133H6B	208-230/1/60	14.8	20	12.4	825	Large	3.30	290
PT*133H6C	208-230/3/60	11	15	9.3	825	Large	3.30	285
PTN024M6A	115/1/60	7.4	15	5.9	340	Small	0.80	88
PTN029M6A	115/1/60	8.3	15	6.9	340	Small	1.00	90
PTN040M6A	115/1/60	11.3	15	9.3	340	Small	0.90	92
PTN047M6A	115/1/60	14	20	11.6	350	Medium	1.70	192
PT*047M6B	208-230/1/60	7	15	5.9	350	Medium	1.70	192
PT*063M6B	208-230/1/60	11.5	15	9.5	550	Medium	1.80	207
PT*072M6B	208-230/1/60	9.3	15	7.8	500	Medium	2.00	211
PT*099M6B	208-230/1/60	14.8	20	12.4	875	Large	2.90	270
PT*099M6C	208-230/3/60	11	15	9.3	875	Large	2.90	265
PT*128M6B	208-230/1/60	14.8	20	12.4	825	Large	3.30	290
PT*128M6C	208-230/3/60	11	15	9.3	825	Large	3.30	285
PT*021L6A	115/1/60	14.5	20	12.3	350	Medium	1.60	213
PT*021L6B	208-230/1/60	7.6	15	6.5	350	Medium	1.60	213
PT*031L6B	208-230/1/60	13.8	15	11.6	550	Medium	1.60	221
PT*044L6B	208-230/1/60	15.9	20	13.3	520	Medium	1.80	225
PT*052L6B	208-230/1/60	18.1	20	15.3	900	Large	2.80	275
PT*052L6C	208-230/3/60	12.2	15	13	900	Large	2.80	270
PT*069L6B	208-230/1/60	23.8	30	20	875	Large	2.90	280
PT*069L6C	208-230/3/60	15.9	20	14.2	875	Large	2.90	275

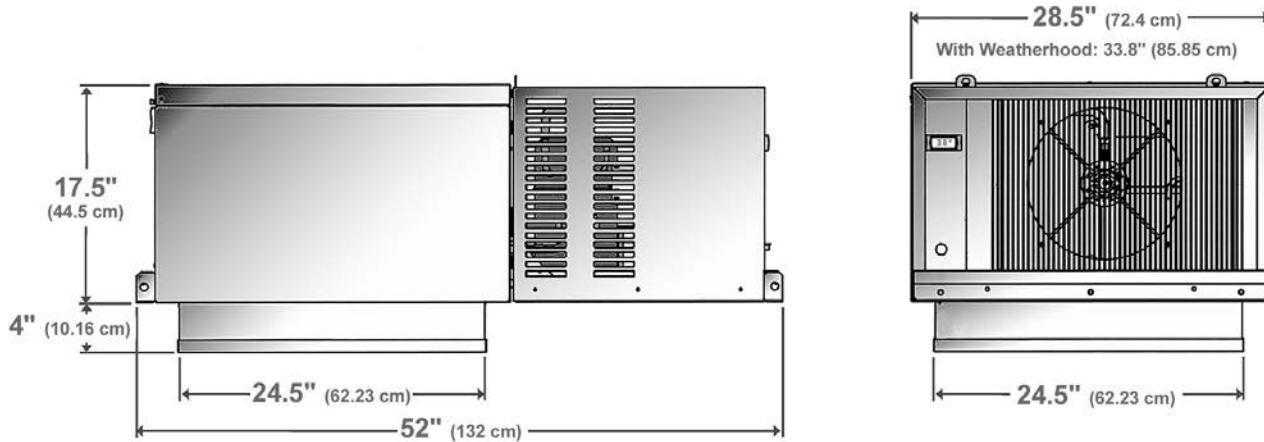
Top Mount

Performance & Specifications

Dimensions: Small Cabinet (Indoor Only)

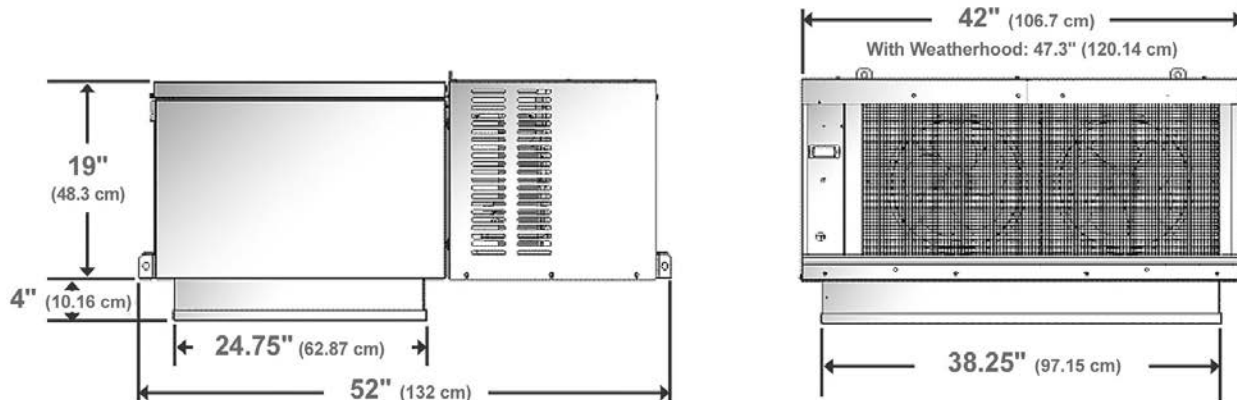


Dimensions: Medium Cabinet (Indoor & Outdoor)



*-21.5" (54.61 cm) on outdoor models with weatherhood

Dimensions: Large Cabinet (Indoor & Outdoor)



*-23.5" (59.69 cm) on outdoor models with weatherhood

Side Mount

Overview



PRO³
Side Mount

Product Description

The PRO³ Side Mount packaged refrigeration system, designed to maximize storage space inside walk-in coolers and freezers and optimized for outdoor applications, is ideal for small- to medium-sized restaurant and convenience store applications where maximum airflow is essential for pulling down the temperature of foods or beverages. The system combines evaporator and condensing unit into one unit expediting installation time and reducing refrigerant charge — saving time, money, and energy. The reduced refrigerant charge, compared to comparable split systems, and availability of EC motors, for increased energy efficiency, makes this product line qualified to be included in the **E Solutions™** product portfolio.

Certifications



Features and Benefits

Ease of Installation and Service

- Installation takes a fraction of the time required for a split system: refrigerant is pre-charged at factory, superheat adjustment is not required and unit slides into slots in standard walk-in panel (see installation manual for more information)
- Designed for simple serviceability: the condensing unit section's cabinet door can be quickly removed; in addition, the electrical box is located outside the cabinet for easy access
- Flexible design allows for multiple installation methods: Optimized for outdoor use, but can be used indoors as well (with drain connection)
- Lifting lugs and hanging brackets in evaporating section allow for easy installation

Ease of Use

- System is factory-assembled, evacuated, charged, run-tested and wired; no additional components required
- Controls preset for typical applications: +38° F for high temp. coolers, +35° F for medium temp. coolers, -10° F for freezers and are easy to adjust

Performance

- Maximized airflow: evaporator placement in walk-in box with pull through fans
- Suitable for temperature pull-down and holding temperature
- Increased condenser capacity, by avoiding compressor heat
- Improved tolerance in high-ambient conditions
- Electric defrost in medium temperature models, allowing for maximum performance in storage applications just above 32°F
- Fan-cycling for head pressure control
- Crankcase heater
- Drain line heater

Reliable & Durable

- Electronic microprocessor control provides accurate temperature control
- Liquid-line filter drier
- Two-year parts warranty

Energy Efficient & Environmentally Friendly

- Optional EC motors available for evaporator section only
- Reduced refrigerant charge: the PRO³ Side Mount packaged refrigeration system uses approximately 10 percent* of refrigerant required for a comparable split system

* Results may vary. Estimate based on a typical 25-foot refrigerant line length.

Nomenclature

P	S	T	070	L	6	B	H
Product Line	Design Orientation	Application	Model Size	Nominal Capacity	Refrigerant	Voltage	Motor
P = PRO3 Packaged Refrigeration System	S = Side Mount	T = Outdoor	# x 100 = BTUH	H = High/Medium L = Low M = Medium w/ electric defrost	6 = R-404A	B = 208-230/1/60	H = PC E = EC (evap. only)

Side Mount

Performance & Specifications

Capacity Ratings: Medium & High Temperature – Air Defrost – Cooler Applications

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature									
	80°F Ambient		90°F Ambient		95°F Ambient		100°F Ambient		110°F Ambient	
	35°F	38°F	35°F	38°F	35°F	38°F	35°F	38°F	35°F	38°F
PST070H6	7,066	7,414	6,860	7,198	6,641	6,968	6,442	6,759	5,678	5,957
PST090H6	9,196	9,644	8,928	9,363	8,643	9,064	8,383	8,792	7,389	7,749
PST131H6	13,244	13,946	12,859	13,540	12,448	13,107	12,074	12,714	10,643	11,207
PST147H6	14,982	15,702	14,545	15,245	14,081	14,758	13,658	14,315	12,039	12,618

Capacity Ratings: Medium Temperature – Electric Defrost – Cooler Applications

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature						
	80°F Ambient		90°F Ambient		95°F Ambient	100°F Ambient	110°F Ambient
	35°F		35°F		35°F	35°F	35°F
PST066M6	7,066		6,860		6,641	6,442	5,678
PST086M6	9,196		8,928		8,643	8,383	7,389
PST124M6	13,244		12,859		12,448	12,074	10,643
PST141M6	14,982		14,545		14,081	13,658	12,039

Capacity Ratings: Low Temperature – Electric Defrost – Freezer Applications

Climate Control Base Model	Capacity (BTUH) @ Ambient Temperature & Box Temperature														
	80°F Ambient			90°F Ambient			95°F Ambient			100°F Ambient			110°F Ambient		
	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F	0°F	-10°F	-20°F
PST034L6	5,584	4,052	2,659	5,031	3,651	2,395	4,746	3,444	2,260	4,366	3,168	2,079	3,726	2,704	1,774
PST051L6	7,683	6,025	4,377	6,922	5,428	3,943	6,530	5,121	3,720	6,008	4,711	3,423	5,126	4,020	2,920
PST057L6	8,873	6,748	4,609	7,994	6,079	4,153	7,541	5,735	3,918	6,938	5,276	3,604	5,920	4,502	3,075
PST077L6	11,769	9,079	6,694	10,602	8,179	6,030	10,002	7,716	5,689	9,202	7,099	5,234	7,852	6,057	4,466

Specifications – All Models

Climate Control Base Model	Voltage	MCA	MOPD	Evap. Fans CFM	Cabinet Size	Refrig. Charge R-404A (lbs.)	Approx. Net Weight (lbs.)
PST070H6B	208-230/1/60	15	20	625	Small	2.30	260
PST090H6B	208-230/1/60	15	20	625	Small	2.30	265
PST131H6B	208-230/1/60	15	20	1,350	Large	2.50	320
PST147H6B	208-230/1/60	15	20	1,350	Large	2.50	325
PST066M6B	208-230/1/60	15	20	1,350	Small	2.30	260
PST086M6B	208-230/1/60	15	20	625	Small	2.30	265
PST124M6B	208-230/1/60	15	20	1,350	Large	2.50	320
PST141M6B	208-230/1/60	15	20	1,350	Large	2.50	325
PST034L6B	208-230/1/60	15	20	625	Small	2.30	260
PST051L6B	208-230/1/60	15	20	625	Small	2.30	265
PST057L6B	208-230/1/60	15	20	1,350	Large	2.50	320
PST077L6B	208-230/1/60	20.7	35	1,350	Large	2.50	325

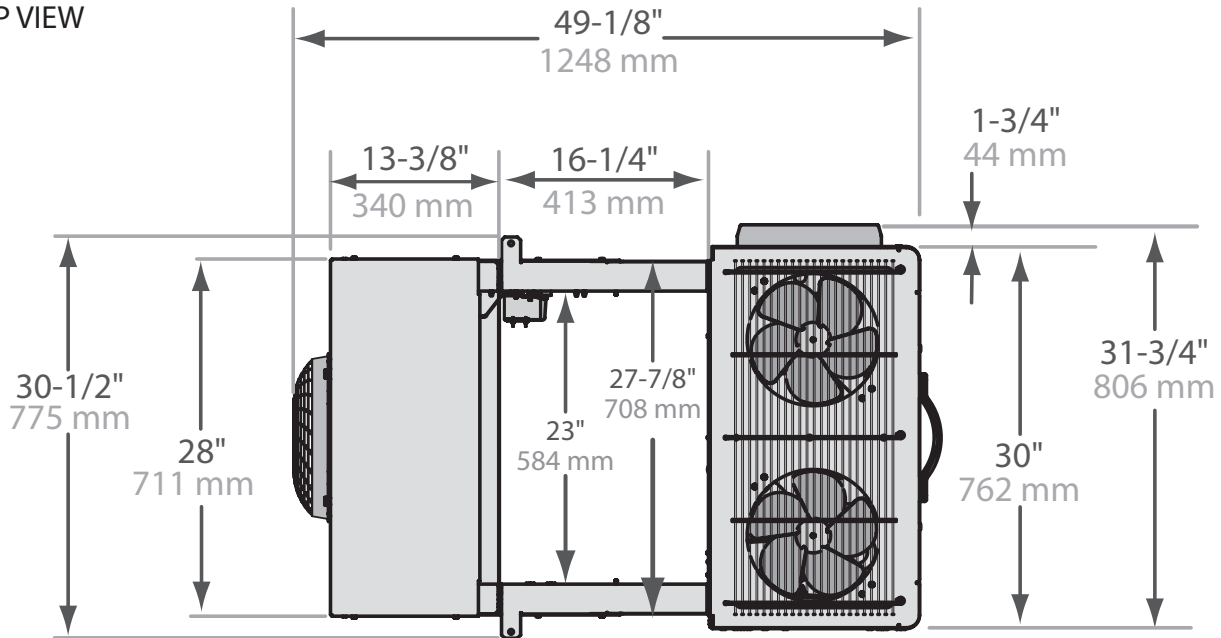
Section 2

Side Mount

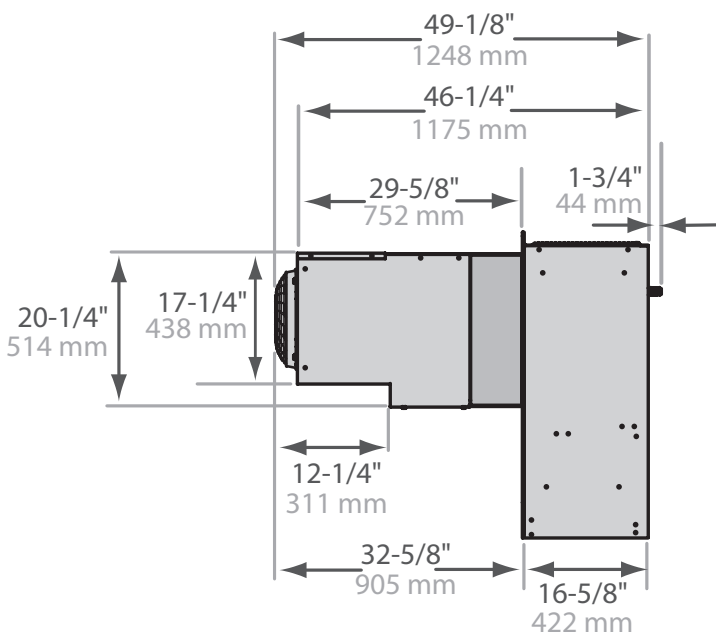
Performance & Specifications

Dimensions: Small Cabinet

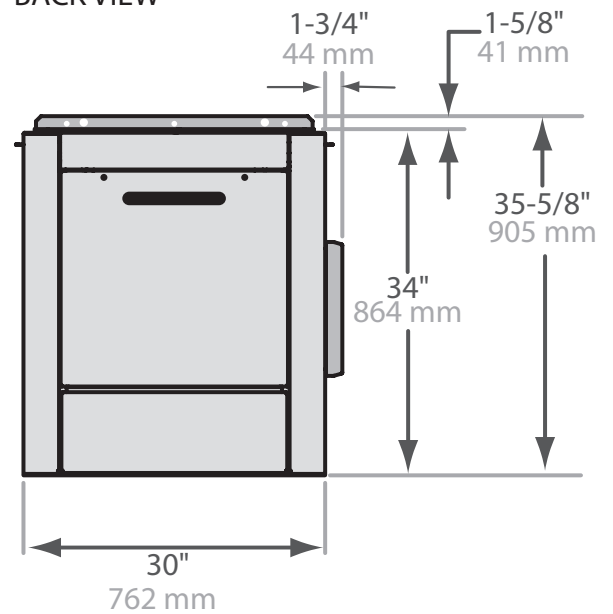
TOP VIEW



SIDE VIEW



BACK VIEW

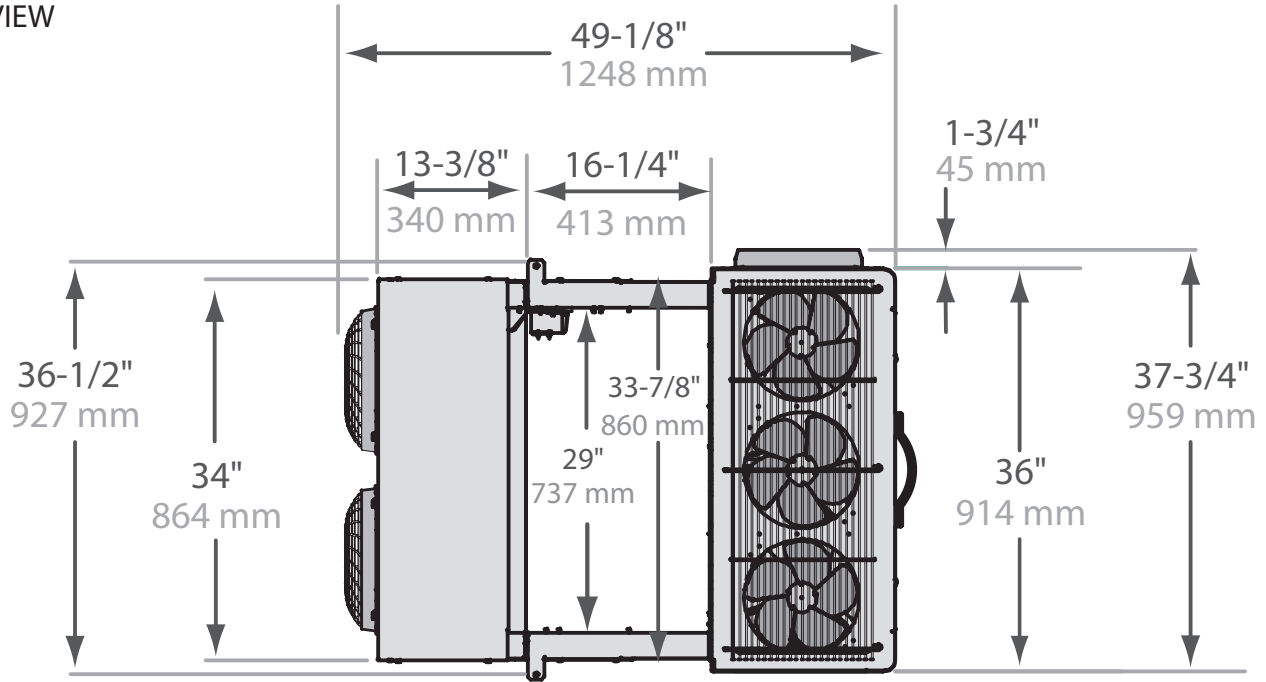


Side Mount

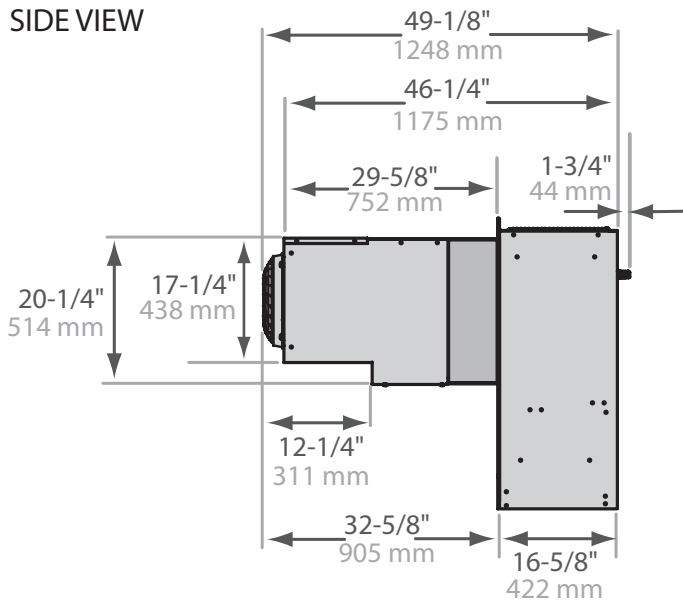
Performance & Specifications

Dimensions: Large Cabinet

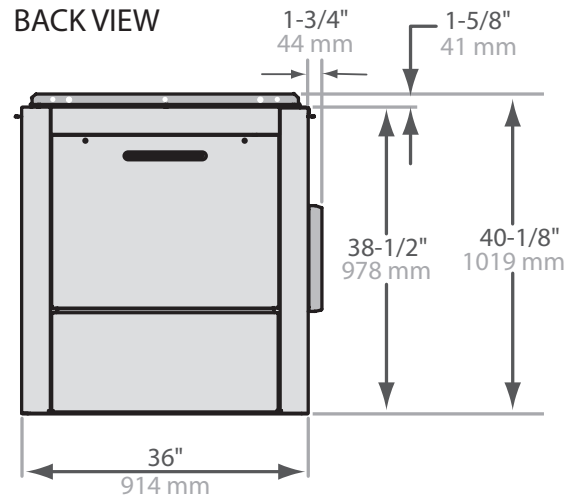
TOP VIEW



SIDE VIEW



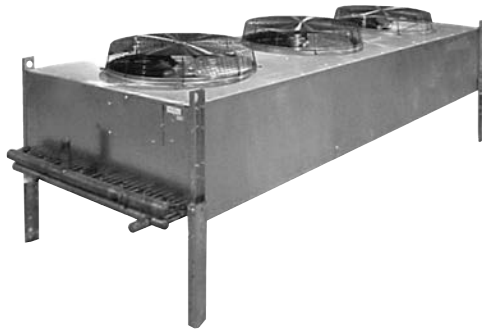
BACK VIEW



Section 2

1 - 26 Ton

Overview



Product Description

Direct drive air-cooled condensers, available from 1 through 26 ton models, are the industry standard for remote air-cooled applications. They are designed for efficient performance and low maintenance and are great for many applications.

Certifications



Standard Features

Ease of Installation & Service

- Weatherproof junction box with motor leads terminating for single-point field wiring

Reliable & Durable

- Heavy gauge smooth aluminum cabinet for long life and attractive appearance
- Coated steel fan guards
- Internally protected, permanently lubricated ball bearing motors with automatic reset

Performance

- Fully baffled fan sections to provide structural strength and prevent fan windmilling in the off cycle
- PSC motors come standard to help save on energy costs

Versatile

- Horizontal or vertical air discharge
- Multicircuiting at no additional charge

Nomenclature

WSS	024
Product Line	Size
Direct Drive Air-cooled Condenser	Model

1 - 26 Ton

Performance & Specifications Data

Performance Data for 60 Hz.

Climate Control Base Model	Fan Data			Max No. of Feeds	Capacity (MBH / °F TD)									
	No. of Fans	Fan Dia. (in.)	CFM		R-22					R-404A/507				
					1°F	10°F	15°F	20°F	30°F	1°F	10°F	15°F	20°F	30°F
WSS008	1	18	2,400	1	0.76	7.60	11.40	15.30	22.90	0.74	7.50	11.20	15.00	22.40
WSS009	1	18	2,400	1	0.89	8.90	13.40	17.80	26.70	0.87	8.70	13.10	17.40	26.20
WSS010	1	18	2,400	2	1.02	10.20	15.30	20.30	30.50	1.00	10.00	15.00	19.90	29.90
WSS016	1	18	2,100	3	1.57	15.70	23.50	31.40	47.10	1.54	15.40	23.00	30.80	46.20
WSS024	1	24	5,050	8	2.43	24.30	36.50	48.70	73.00	2.38	23.80	35.80	47.70	71.50
WSS040	1	26	6,450	16	4.00	40.00	60.00	80.00	120.00	3.92	39.20	58.80	78.40	117.60
WSS049	2	24	10,100	16	4.87	48.70	73.00	97.30	146.00	4.77	47.70	71.50	95.40	143.10
WSS061	2	26	12,400	16	6.08	60.80	91.20	121.60	182.40	5.96	59.60	89.40	119.20	178.80
WSS070	2	26	13,700	16	6.99	69.90	104.80	139.70	209.70	6.85	69.50	102.70	136.90	205.50
WSS080	2	26	12,900	32	7.99	79.90	119.80	159.70	239.60	7.83	78.30	117.40	156.50	234.80
WSS105	3	26	20,500	24	10.50	105.00	157.10	209.50	314.20	10.29	102.90	154.00	205.30	307.90
WSS113	3	26	19,900	24	11.30	113.00	169.80	226.40	339.60	11.07	110.70	166.40	221.90	332.80
WSS133	3	26	19,400	32	13.30	133.00	199.10	265.50	398.20	13.03	130.30	195.10	260.20	390.20

Electrical Ratings & Fan Motor Data for 60 Hz.

PSC Motors are 1075 RPM and Polyphase Motors are 1140 RPM

Climate Control Base Model	MCA	MOPD	PSC Motor				Polyphase Motor			
			115/1/60		208-230/1/60		208-230/3/60		460/3/60	
			Motor HP	Motor FLA	Motor HP	Motor FLA	Motor HP	Motor FLA	Motor HP	Motor FLA
WSS008	15	15	1/10	3.3	1/4	2.0	1/3	2.6	1/3	1.3
WSS009	15	15	1/10	3.3	1/4	2.0	1/3	2.6	1/3	1.3
WSS010	15	15	1/10	3.3	1/4	2.0	1/3	2.6	1/3	1.3
WSS016	15	15	-	-	1/4	2.0	1/3	2.6	1/3	1.3
WSS024	15	15	-	-	1/3	3.4	1/3	2.6	1/3	1.3
WSS040	15	15	-	-	1/2	3.9	1/3	2.6	1/3	1.3
WSS049	15	15	-	-	1/3	6.8	1/3	5.2	1/3	2.6
WSS061	15	15	-	-	1/2	7.8	1/3	5.2	1/3	2.6
WSS070	15	15	-	-	1/2	7.8	1/3	5.2	1/3	2.6
WSS080	15	15	-	-	1/2	7.8	1/3	5.2	1/3	2.6
WSS105	15	15	-	-	1/2	11.7	1/3	7.8	1/3	3.9
WSS113	15	15	-	-	1/2	11.7	1/3	7.8	1/3	3.9
WSS133	15	15	-	-	1/2	11.7	1/3	7.8	1/3	3.9

1 - 26 Ton

Performance & Specifications Data

Physical Data

Climate Control Base Model	Fan Config.	Net Dimensions		Connections (in)		Approx. Net Weight (lbs.)
		A (in.)	E (in.)	Inlet ODS	Outlet ODS	
WSS008	1x1	37 1/2	31 1/4	3/8	3/8	96
WSS009	1x1	37 1/2	31 1/4	5/8	5/8	96
WSS010	1x1	37 1/2	31 1/4	7/8	5/8	96
WSS016	1x1	37 1/2	31 1/4	7/8	5/8	114
WSS024	1x1	40	30	1 1/8	7/8	180
WSS040	1x1	50	40	1 1/8	7/8	260
WSS049	1x2	70	60	(2) 1 1/8	(2) 7/8	450
WSS061	1x2	70	60	(2) 1 1/8	(2) 7/8	470
WSS070	1x2	90	80	(2) 1 1/8	(2) 7/8	510
WSS080	1x2	90	80	(2) 1 3/8	(2) 1 1/8	530
WSS105	1x3	130	120	(2) 1 5/8	(2) 1 1/8	550
WSS113	1x3	130	120	(2) 1 5/8	(2) 1 1/8	580
WSS133	1x3	130	120	(2) 1 5/8	(2) 1 1/8	625

Minimum Ambient For Fan Cycling

Based on 90°F Condensing Temperature

Climate Control Base Model	No. of Fans	Design TD				
		30°F	25°F	20°F	15°F	10°F
WSS049	2	35	45	55	60	70
WSS061	2	35	45	55	60	70
WSS070	2	35	45	55	60	70
WSS080	2	35	45	55	60	70
WSS105	3	15	30	40	55	65
WSS113	3	15	30	40	55	65
WSS133	3	15	30	40	55	65

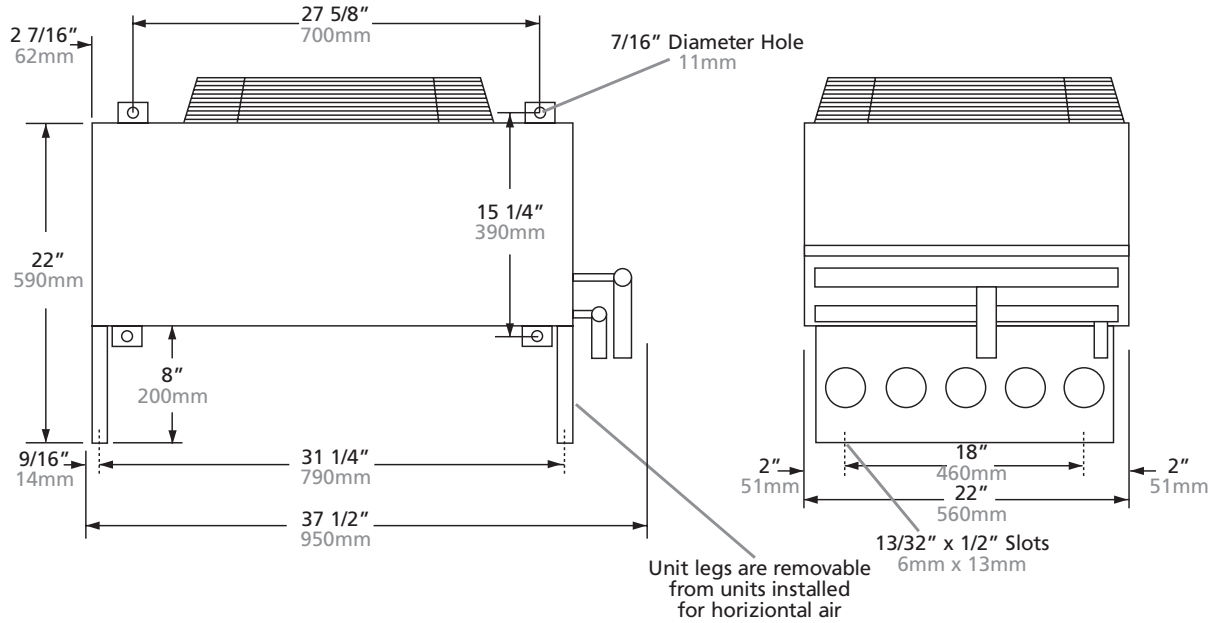
Models with 2 or 3 fans are available with either ambient or pressure activated fan cycling packages. Head pressure can be controlled by varying the air flow across the coil in response to changes in ambient temperatures or refrigerant pressures. The table above shows the minimum ambient temperatures for fan cycling.

1 - 26 Ton

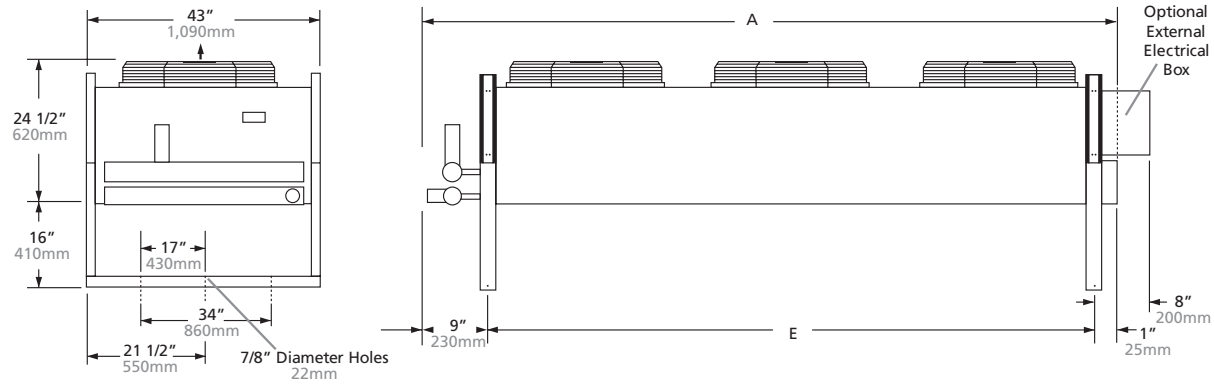
Performance & Specifications Data

Dimensional Drawings

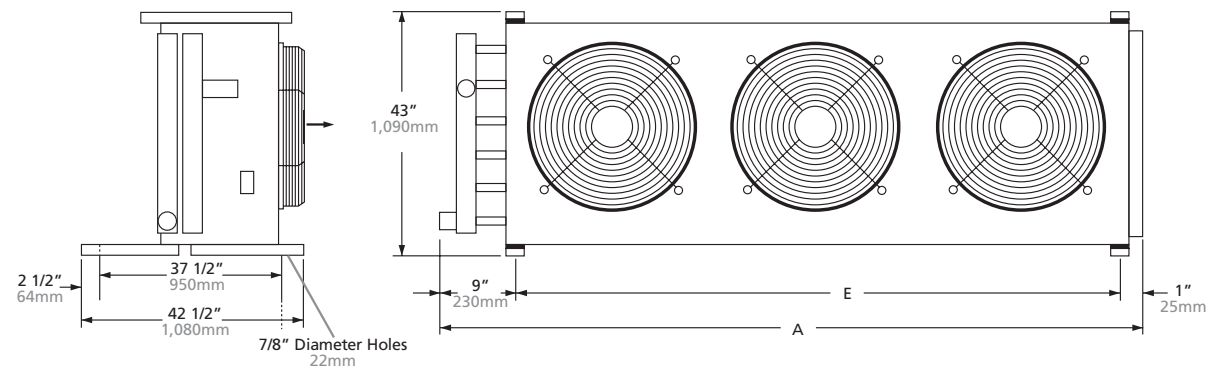
Model WSS008 - 016



Model WSS024 - 133 with Vertical Air Flow



Model WSS024 - 133 with Horizontal Air Flow



Section 3

11 – 264 Ton

Overview



Product Description

These air-cooled condensers feature improved energy efficiency and low sound levels sought after by the supermarket and grocery industry. Traditional condensers using 1140 RPM motors offer high capacities, but cannot meet the low sound and energy efficiency standards demanded today by this industry. High capacities for operation along with the low sound and energy efficiency requirements are brought together in these units for a great fit for many applications. Choosing a model with the patented QuietEdge™ Fan Blade or Variable Speed EC motors makes this product qualified to be included in the **E Solutions™** product portfolio.

Certifications



Standard Features

- 10 fins per inch spacing standard. 8, 12, and 14 fins per inch spacing available as an option.
- Floating Tube™ coil design virtually eliminates tube sheet leaks
- Internal baffles provided between all fan cells
- Condensers up to 3 fans in length use 3/8" diameter tube to minimize refrigerant charge. Condensers 4 or more fans in length use 1/2" diameter tube to minimize refrigerant pressure drop
- Coated steel fan guards
- Weather resistant control panel with factory-mounted door interrupt disconnect switch
- 2-year warranty on product and 5-year warranty on Floating Tube™

Models with Variable Speed EC Motors (VSEC)

- EC motor, swept fan blade and venturi incorporating integrated variable speed technology
- Broad capacity range from 16 to 264 tons
- Aluminum housing for an attractive appearance and corrosion protection, with painted galvanized steel, or galvanized steel as an option
- Side access panels for ease of cleaning coils
- 3-year warranty on EC motors

Models with 830 or 540 RPM Fixed Speed Motors

- Direct drive fan motors in 830 or 540 RPM
- The patented QuietEdge™ fan blade provides an unprecedented sound level of 49.6 dBA (540 RPM @ 10 ft.)
- Patented ServiceEase™ motor mount feature, allows for ease of motor service and reduces likelihood of damage to the coils during servicing
- Condenser coils incorporate the latest advancements in coil technology to provide maximum capacity
- Broader product range to address all applications — capacities ranging from 11 to 225 nominal tons
- Galvanized steel housing
- High efficiency, three-phase fan motors with ball bearings and internal overload protection

Models with 1140 RPM Fixed Speed Motors

- Direct drive fan motors
- Patented ServiceEase™ motor mount
- New, high efficiency condenser coil designed for optimum performance
- Expanded product range from 15 to 249 nominal tons
- Galvanized steel housing
- High efficiency, three-phase fan motors with ball bearings and internal overload protection

Nomenclature

C	N	H	S	04	A	050
Brand	Vintage	Model	Width	Fans	Model Identifier	Standard Capacity
C = Climate Control		H = 1140 RPM, 1.5 HP L = 830 RPM, 1.5 HP X = 830 RPM, 1.0 HP Q = 540 RPM, 0.5 HP E = VSEC Motor	S = Single D = Double	# of fans (01-14)		(MBH/°TD, R-22 @ 10 FPI)

11 – 264 Ton

Performance & Specifications Data

Performance Data

10 fins per inch spacing is standard. 8, 12, and 14 fins per inch are available as an option.

Climate Control Base Model	Fan Data		Capacity (MBH / 1°TD)							
	No. of Fans	CFM	R-22 / R-410A				R-404A			
			8 FPI	10 FPI	12 FPI	14 FPI	8 FPI	10 FPI	12 FPI	14 FPI
Models with VSEC Motors										
CNES01A008	1	11,000	6.8	7.7	8.5	9.1	6.6	7.6	8.3	9.0
CNES01A009	1	10,500	8.3	9.3	10.0	10.6	8.1	9.1	9.8	10.4
CNES02A011	2	23,400	10.2	11.3	12.4	13.1	10.0	11.1	12.1	12.9
CNES02A015	2	22,000	13.9	15.4	16.5	17.3	13.6	15.1	16.2	17.0
CNES02A018	2	20,900	16.6	18.1	19.2	20.3	16.3	17.8	18.8	19.9
CNES03A023	3	33,100	20.9	23.1	24.8	25.9	20.4	22.7	24.3	25.4
CNES03A027	3	31,400	24.9	27.2	28.7	31.7	24.4	26.7	28.2	31.1
CNES04A031	4	42,600	27.8	30.8	33.0	34.6	27.2	30.2	32.4	33.9
CNES04A036	4	40,000	33.2	36.3	38.3	40.6	32.6	35.5	37.5	39.8
CNES05A039	5	53,200	35.6	39.3	41.6	43.8	34.9	38.5	40.8	42.9
CNES05A047	5	50,000	43.0	46.6	48.8	51.5	42.1	45.7	47.8	50.5
CNES06A056	6	60,000	52.0	56.0	58.6	61.8	50.5	54.8	57.4	60.5
CNES07A065	7	70,000	58.7	64.6	68.6	71.6	57.6	63.3	67.3	70.2
CNED04A023	4	46,700	20.4	22.7	24.8	26.2	19.9	22.2	24.3	25.7
CNED04A031	4	44,100	27.8	30.8	33.1	34.6	27.2	30.2	32.4	33.9
CNED04A036	4	41,800	33.2	36.3	38.3	40.6	32.6	35.5	37.5	39.8
CNED06A046	6	66,100	41.7	46.2	49.5	51.9	40.9	45.3	48.6	50.8
CNED06A054	6	62,700	49.8	54.4	66.1	63.4	48.8	53.3	56.3	62.2
CNED08A062	8	85,100	55.6	61.7	76.6	69.2	54.5	60.5	64.7	67.8
CNED08A073	8	80,000	66.5	72.5	83.2	81.3	65.2	71.1	75.1	79.7
CNED10A079	10	106,400	71.1	78.6	97.6	87.5	69.7	77.0	81.6	85.8
CNED10A093	10	100,100	85.9	93.3	117.1	103.0	84.2	91.4	95.7	100.9
CNED12A112	12	120,100	103.1	111.9	57.4	123.6	101.0	109.7	114.8	121.1
CNED14A129	14	140,100	117.5	129.2	137.2	143.1	115.2	126.7	134.5	140.3
Models with 540 RPM (0.5 HP) Fixed Speed Motors										
CNQS01A005	1	5,400	4.6	5.2	5.6	5.9	4.6	5.1	5.5	5.8
CNQS01A006	1	5,200	5.5	6.1	6.4	6.6	5.4	5.9	6.2	6.5
CNQS02A008	2	11,200	7.2	8.0	8.7	9.1	7.0	7.8	8.5	8.9
CNQS02A010	2	10,800	9.4	10.3	10.8	11.8	9.2	10.1	10.6	11.6
CNQS02A011	2	10,400	10.8	11.5	11.9	12.3	10.6	11.2	11.7	12.0
CNQS03A016	3	16,100	14.1	15.6	16.2	16.9	13.8	15.2	15.9	16.6
CNQS03A017	3	15,600	16.2	17.2	17.9	19.8	15.9	16.9	17.5	19.4
CNQS04A021	4	21,500	18.8	20.7	21.6	23.5	18.4	20.3	21.2	23.0
CNQS04A023	4	20,800	21.6	22.9	23.8	24.5	21.2	22.4	23.3	24.0
CNQS05A026	5	26,900	23.5	25.9	27.0	29.3	23.1	25.4	26.4	28.8
CNQS05A029	5	26,000	27.0	28.6	29.8	30.7	26.5	28.1	29.2	30.1
CNQS06A034	6	31,200	32.4	34.4	35.7	36.8	31.8	33.7	35.0	36.1
CNQS07A042	7	36,400	38.4	41.6	42.8	44.3	37.7	40.7	41.9	43.4
CNQD04A016	4	22,300	14.3	16.0	17.3	18.2	14.0	15.6	16.9	17.9
CNQD04A021	4	21,500	18.8	20.7	21.6	23.6	18.4	20.3	21.2	23.2
CNQD04A023	4	20,800	21.6	22.9	23.8	24.5	21.2	22.4	23.3	24.0

Air-Cooled Condensers



11 – 264 Ton

Performance & Specifications Data

Performance Data

10 fins per inch spacing is standard. 8, 12, and 14 fins per inch are available as an option.

Climate Control Base Model	Fan Data		Capacity (MBH / 1°TD)							
	No. of Fans	CFM	R-22 / R-410A				R-404A			
			8 FPI	10 FPI	12 FPI	14 FPI	8 FPI	10 FPI	12 FPI	14 FPI
CNQD06A031	6	32,300	28.2	31.0	32.4	33.8	27.6	30.4	31.8	33.1
CNQD06A034	6	31,200	32.4	34.4	35.7	39.5	31.8	33.7	35.0	38.7
CNQD08A041	8	43,000	37.6	41.4	43.2	47.0	36.9	40.6	42.3	46.1
CNQD08A046	8	41,600	43.2	45.8	47.6	49.0	42.4	44.9	46.7	48.1
CNQD10A052	10	53,700	47.0	51.8	54.0	58.7	46.1	50.7	52.9	57.5
CNQD10A057	10	52,100	54.0	57.3	59.5	61.3	53.0	56.1	58.3	60.1
CNQD12A069	12	62,500	64.8	68.7	71.4	73.6	63.6	67.3	70.0	72.1
CNQD14A083	14	72,900	76.8	83.1	85.5	88.6	75.3	81.5	83.8	86.8
Models with 830 RPM (1.0 HP) Fixed Speed Motors										
CNXS01A006	1	7,600	5.6	6.4	7.0	7.4	5.5	6.2	6.8	7.3
CNXS01A008	1	7,300	6.8	7.5	8.1	8.4	6.6	7.4	7.9	8.3
CNXS02A010	2	15,900	8.8	9.8	10.6	11.3	8.6	9.6	10.4	11.0
CNXS02A013	2	15,200	12.0	13.1	13.8	14.8	11.8	12.8	13.6	14.5
CNXS02A015	2	14,700	14.0	15.1	15.7	16.0	13.7	14.8	15.3	15.7
CNXS03A020	3	22,900	18.0	19.7	20.8	21.8	17.7	19.3	20.4	21.4
CNXS03A023	3	22,000	21.0	22.7	23.5	25.3	20.5	22.3	23.0	24.8
CNXS04A026	4	29,800	24.1	26.3	27.7	29.3	23.6	25.7	27.1	28.8
CNXS04A030	4	28,400	27.9	30.3	31.3	32.0	27.4	29.7	30.7	31.4
CNXS05A033	5	37,300	30.1	32.8	34.6	36.7	29.5	32.1	33.9	36.0
CNXS05A038	5	35,500	34.9	37.8	39.2	40.1	34.2	37.1	38.4	39.3
CNXS06A045	6	42,600	41.9	45.4	47.0	48.1	41.1	44.5	46.1	47.1
CNXS07A052	7	49,700	47.7	52.0	54.8	56.1	46.8	51.0	53.7	55.0
CNXD04A020	4	31,700	17.5	19.6	21.2	22.5	17.2	19.2	20.8	22.0
CNXD04A026	4	30,500	24.1	26.2	27.7	29.7	23.6	25.7	27.1	29.1
CNXD04A030	4	29,300	27.9	30.3	31.3	32.0	27.4	29.7	30.7	31.4
CNXD06A039	6	45,700	36.1	39.4	41.5	43.7	35.4	38.6	40.7	42.8
CNXD06A045	6	44,000	41.9	45.4	47.0	50.6	41.1	44.5	46.1	49.6
CNXD08A052	8	59,700	48.1	52.5	55.4	58.6	47.1	51.4	54.3	57.5
CNXD08A061	8	56,800	55.9	60.6	62.7	64.1	54.8	59.3	61.4	62.8
CNXD10A066	10	74,600	60.1	65.6	69.2	73.5	58.9	64.3	67.8	72.0
CNXD10A076	10	71,000	69.9	75.7	78.3	80.1	68.5	74.2	76.8	78.5
CNXD12A091	12	85,200	83.8	90.8	94.0	96.1	82.1	89.0	92.1	94.2
CNXD14A104	14	99,400	95.5	104.1	109.6	112.2	93.6	102.0	107.5	110.1
Models with 830 RPM (1.5 HP) Fixed Speed Motors										
CNLS01A007	1	8,400	5.9	6.7	7.3	7.9	5.8	6.6	7.2	7.7
CNLS01A008	1	8,000	7.2	8.0	8.6	9.0	7.0	7.8	8.4	8.8
CNLS02A010	2	17,500	9.1	10.1	11.0	11.7	8.9	9.9	10.8	11.4
CNLS02A014	2	16,700	12.6	13.9	14.9	15.7	12.4	13.6	14.6	15.4
CNLS02A016	2	16,100	15.0	16.1	16.8	17.6	14.7	15.8	16.5	17.3
CNLS03A021	3	25,100	19.0	20.9	22.3	23.4	18.6	20.5	21.8	23.0
CNLS03A024	3	24,100	22.5	24.2	25.2	26.9	22.0	23.8	24.7	26.3
CNLS04A028	4	32,800	25.3	27.8	29.7	31.2	24.8	27.3	29.1	30.6

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Performance & Specifications Data

Performance Data

10 fins per inch spacing is standard. 8, 12, and 14 fins per inch are available as an option.

Climate Control Base Model	Fan Data		Capacity (MBH / 1°TD)							
	No. of Fans	CFM	R-22 / R-410A				R-404A			
			8 FPI	10 FPI	12 FPI	14 FPI	8 FPI	10 FPI	12 FPI	14 FPI
CNLS04A032	4	31,200	30.0	32.3	33.6	35.2	29.4	31.7	32.9	34.5
CNLS05A035	5	41,000	32.1	35.5	37.4	39.0	31.4	34.7	36.6	38.2
CNLS05A042	5	39,100	38.4	41.6	43.4	44.7	37.7	40.8	42.5	43.8
CNLS06A050	6	46,900	46.1	49.9	52.1	53.6	45.2	48.9	51.0	52.6
CNLS07A055	7	54,700	50.5	55.0	58.0	60.2	49.5	53.9	56.8	59.0
CNLD04A020	4	35,000	18.1	20.2	22.0	23.3	17.7	19.8	21.5	22.9
CNLD04A028	4	33,500	25.3	27.8	29.7	31.4	24.8	27.3	29.1	30.7
CNLD04A032	4	32,100	30.0	32.3	33.6	35.2	29.4	31.7	32.9	34.5
CNLD06A042	6	50,200	37.9	41.8	44.5	46.9	37.2	40.9	43.7	45.9
CNLD06A048	6	48,200	45.0	48.4	50.4	53.7	44.1	47.5	49.4	52.7
CNLD08A056	8	65,600	50.6	55.7	59.4	62.4	49.6	54.6	58.3	61.1
CNLD08A065	8	62,500	60.0	64.6	67.2	70.4	58.8	63.3	65.8	69.0
CNLD10A071	10	82,000	64.2	70.9	74.7	78.0	62.9	69.5	73.2	76.5
CNLD10A083	10	78,100	76.9	83.1	86.8	89.4	75.3	81.5	85.0	87.6
CNLD12A100	12	93,700	90.4	99.8	104.1	107.3	92.2	97.8	102.0	105.1
CNLD14A110	14	109,300	101.1	110.0	116.0	120.3	99.1	107.9	113.7	117.9
Models with 1140 RPM (1.5 HP) Fixed Speed Motors										
CNHS01A007	1	9,900	6.4	7.3	8.0	8.6	6.3	7.2	7.9	8.5
CNHS01A009	1	9,500	7.8	8.7	9.5	10.0	7.6	8.6	9.3	9.8
CNHS02A011	2	20,500	9.6	10.7	11.7	12.4	9.4	10.5	11.5	12.1
CNHS02A015	2	19,800	13.1	14.5	15.6	16.3	12.8	14.2	15.3	16.0
CNHS02A017	2	19,000	15.7	17.1	18.1	19.2	15.3	16.7	17.7	18.8
CNHS03A022	3	29,700	19.7	21.8	23.4	24.5	19.3	21.4	22.9	24.0
CNHS03A026	3	28,500	23.5	25.7	27.1	29.9	23.1	25.2	26.6	29.3
CNHS04A029	4	38,600	26.2	29.1	31.2	32.6	25.7	28.5	30.5	32.0
CNHS04A034	4	37,000	31.4	34.2	36.1	38.3	30.7	33.5	35.4	37.6
CNHS05A037	5	48,300	33.6	37.1	39.3	41.3	32.9	36.4	38.5	40.5
CNHS05A044	5	46,200	40.5	44.0	46.1	48.6	39.7	43.1	45.1	47.6
CNHS06A053	6	55,400	48.6	52.8	55.3	58.3	47.7	51.7	54.1	57.1
CNHS07A061	7	64,700	55.4	61.0	64.7	67.5	54.3	59.8	63.5	66.2
CNHD04A021	4	41,000	19.2	21.4	23.4	24.8	18.8	21.0	22.9	24.3
CNHD04A029	4	39,600	26.2	29.1	31.2	32.6	25.7	28.5	30.6	32.0
CNHD04A034	4	38,100	31.4	34.2	36.1	38.3	30.7	33.5	35.4	37.6
CNHD06A044	6	59,400	39.4	43.6	46.7	48.9	38.6	42.8	45.8	47.9
CNHD06A051	6	57,100	47.0	51.3	54.2	59.8	46.1	50.3	53.1	58.7
CNHD08A058	8	77,200	52.5	58.2	62.3	65.3	51.4	57.0	61.1	63.9
CNHD08A068	8	73,900	62.7	68.4	72.3	76.7	61.5	67.1	70.8	75.1
CNHD10A074	10	96,500	67.1	74.2	78.5	82.6	65.7	72.7	76.9	80.9
CNHD10A088	10	92,400	81.0	88.0	92.1	97.2	79.4	86.2	90.2	95.2
CNHD12A106	12	110,900	97.2	105.6	110.5	116.6	95.3	103.5	108.3	114.2
CNHD14A122	14	129,400	110.8	121.9	129.5	135.0	108.6	119.5	126.9	132.4

Air-Cooled Condensers



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Performance & Specifications Data

Specifications Data

Climate Control Base Model	208-230/3/60			460/3/60			Unit KW	Conn. (in.)	Max No. of Feeds	Approx. Net Weight (lbs.)
	Motor FLA	MCA	MOPD	Motor FLA	MCA	MOPD				
Models with VSEC Motors										
CNES01A008	7.0	15.0	25	3.5	15.0	15	2.0	1 3/8	7	330
CNES01A009	7.0	15.0	25	3.5	15.0	15	2.0	1 3/8	14	360
CNES02A011	14.0	20.0	35	7.0	15.0	15	4.0	1 3/8	14	590
CNES02A015	14.0	20.0	35	7.0	15.0	15	4.0	1 5/8	21	640
CNES02A018	14.0	20.0	35	7.0	15.0	15	4.0	2 1/8	28	690
CNES03A023	21.0	22.8	40	10.5	15.0	20	6.0	2 1/8	21	930
CNES03A027	21.0	22.8	40	10.5	15.0	20	6.0	2 1/8	28	1,010
CNES04A031	28.0	29.8	45	14.0	15.0	20	8.0	2 1/8	21	1,220
CNES04A036	28.0	29.8	45	14.0	15.0	20	8.0	2 5/8	28	1,320
CNES05A039	35.0	36.8	50	17.5	20.0	25	10.0	2 5/8	21	1,520
CNES05A047	35.0	36.8	50	17.5	20.0	25	10.0	2 5/8	28	1,650
CNES06A056	42.0	43.8	60	21.0	21.9	30	12.0	2 5/8	28	1,960
CNES07A065	49.0	50.8	70	24.5	25.4	35	14.0	2 @ 2 5/8	28	2,260
CNED04A023	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 1 3/8	28	1,290
CNED04A031	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 1 5/8	42	1,390
CNED04A036	28.0	29.8	45	14.0	15.0	20	8.0	2 @ 2 1/8	56	1,490
CNED06A046	42.0	43.8	60	21.0	21.9	30	12.0	2 @ 2 1/8	42	2,060
CNED06A054	42.0	43.8	60	21.0	21.9	30	12.0	2 @ 2 1/8	56	2,210
CNED08A062	56.0	57.8	70	28.0	28.9	35	16.0	2 @ 2 1/8	42	2,730
CNED08A073	56.0	57.8	70	28.0	28.9	35	16.0	2 @ 2 5/8	56	2,930
CNED10A079	70.0	71.8	90	35.0	35.9	45	20.0	2 @ 2 5/8	42	3,410
CNED10A093	70.0	71.8	90	35.0	35.9	45	20.0	2 @ 2 5/8	56	3,660
CNED12A112	84.0	85.8	100	42.0	42.9	50	24.0	2 @ 2 5/8	56	4,370
CNED14A129	98.0	99.8	110	49.0	49.9	60	28.0	4 @ 2 5/8	56	5,070
Models with 540 RPM (0.5 HP) Fixed Speed Motors										
CNQS01A005	3.5	15.0	15	1.8	15.0	15	0.4	1 3/8	7	330
CNQS01A006	3.5	15.0	15	1.8	15.0	15	0.4	1 3/8	14	360
CNQS02A008	7.0	15.0	15	3.6	15.0	15	0.9	1 3/8	14	580
CNQS02A010	7.0	15.0	15	3.6	15.0	15	0.9	1 5/8	21	630
CNQS02A011	7.0	15.0	15	3.6	15.0	15	0.9	2 1/8	28	680
CNQS03A016	10.5	15.0	20	5.4	15.0	15	1.3	2 1/8	21	930
CNQS03A017	10.5	15.0	20	5.4	15.0	15	1.3	2 1/8	28	1,000
CNQS04A021	14.0	15.0	20	7.2	15.0	15	1.7	2 1/8	21	1,210
CNQS04A023	14.0	15.0	20	7.2	15.0	15	1.7	2 5/8	28	1,310
CNQS05A026	17.5	20.0	25	9.0	15.0	15	2.2	2 5/8	21	1,510
CNQS05A029	17.5	20.0	25	9.0	15.0	15	2.2	2 5/8	28	1,640
CNQS06A034	21.0	21.9	30	10.8	15.0	15	2.6	2 5/8	28	1,950
CNQS07A042	24.5	25.4	35	12.6	15.0	15	3.1	2 @ 2 5/8	28	2,240
CNQD04A016	14.0	15.0	20	7.2	15.0	15	1.7	2 @ 1 3/8	28	1,240
CNQD04A021	14.0	15.0	20	7.2	15.0	15	1.7	2 @ 1 5/8	42	1,340
CNQD04A023	14.0	15.0	20	7.2	15.0	15	1.7	2 @ 2 1/8	56	1,440

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Performance & Specifications Data

Specifications Data

Climate Control Base Model	208-230/3/60			460/3/60			Unit KW	Conn. (in.)	Max No. of Feeds	Approx. Net Weight (lbs.)
	Motor FLA	MCA	MOPD	Motor FLA	MCA	MOPD				
CNQD06A031	21.0	21.9	30	10.8	15.0	15	2.6	2 @ 2 1/8	42	1,990
CNQD06A034	21.0	21.9	30	10.8	15.0	15	2.6	2 @ 2 1/8	56	2,140
CNQD08A041	28.0	28.9	35	14.4	15.0	20	3.5	2 @ 2 1/8	42	2,630
CNQD08A046	28.0	28.9	35	14.4	15.0	20	3.5	2 @ 2 5/8	56	2,830
CNQD10A052	35.0	35.9	45	18.0	20.0	20	4.4	2 @ 2 5/8	42	3,290
CNQD10A057	35.0	35.9	45	18.0	20.0	20	4.4	2 @ 2 5/8	56	3,540
CNQD12A069	42.0	42.9	50	21.6	22.1	25	5.2	2 @ 2 5/8	56	4,230
CNQD14A083	49.0	49.9	60	25.2	25.7	30	6.1	4 @ 2 5/8	56	4,910
Models with 830 RPM (1.0 HP) Fixed Speed Motors										
CNXS01A006	4.8	15.0	15	2.4	15.0	15	1.1	1 3/8	7	330
CNXS01A008	4.8	15.0	15	2.4	15.0	15	1.1	1 3/8	14	360
CNXS02A010	9.6	15.0	20	4.8	15.0	15	2.2	1 3/8	14	580
CNXS02A013	9.6	15.0	20	4.8	15.0	15	2.2	1 5/8	21	630
CNXS02A015	9.6	15.0	20	4.8	15.0	15	2.2	2 1/8	28	680
CNXS03A020	14.4	20.0	25	7.2	15.0	15	3.4	2 1/8	21	930
CNXS03A023	14.4	20.0	25	7.2	15.0	15	3.4	2 1/8	28	1,000
CNXS04A026	19.2	20.4	30	9.6	15.0	15	4.5	2 1/8	21	1,210
CNXS04A030	19.2	20.4	30	9.6	15.0	15	4.5	2 5/8	28	1,310
CNXS05A033	24.0	25.2	35	12.0	15.0	15	5.6	2 5/8	21	1,510
CNXS05A038	24.0	25.2	35	12.0	15.0	15	5.6	2 5/8	28	1,640
CNXS06A045	28.8	30.0	40	14.4	15.0	20	6.7	2 5/8	28	1,950
CNXS07A052	33.6	34.8	45	16.8	20.0	20	7.8	2 @ 2 5/8	28	2,240
CNXD04A020	19.2	20.4	30	9.6	15.0	15	4.5	2 @ 1 3/8	28	1,240
CNXD04A026	19.2	20.4	30	9.6	15.0	15	4.5	2 @ 1 5/8	42	1,340
CNXD04A030	19.2	20.4	30	9.6	15.0	15	4.5	2 @ 2 1/8	56	1,440
CNXD06A039	28.8	30.0	40	14.4	15.0	20	6.7	2 @ 2 1/8	42	1,990
CNXD06A045	28.8	30.0	40	14.4	15.0	20	6.7	2 @ 2 1/8	56	2,140
CNXD08A052	38.4	39.6	50	19.2	20.0	25	8.9	2 @ 2 1/8	42	2,630
CNXD08A061	38.4	39.6	50	19.2	20.0	25	8.9	2 @ 2 5/8	56	2,830
CNXD10A066	48.0	49.2	60	24.0	24.6	30	11.2	2 @ 2 5/8	42	3,290
CNXD10A076	48.0	49.2	60	24.0	24.6	30	11.2	2 @ 2 5/8	56	3,540
CNXD12A091	57.6	58.8	70	28.8	29.4	35	13.4	2 @ 2 5/8	56	4,230
CNXD14A104	67.2	68.4	80	33.6	34.2	40	15.6	4 @ 2 5/8	56	4,910
Models with 830 RPM (1.5 HP) Fixed Speed Motors										
CNLS01A007	6.6	15.0	25	3.3	15.0	15	1.4	1 3/8	7	330
CNLS01A008	6.6	15.0	25	3.3	15.0	15	1.4	1 3/8	14	360
CNLS02A010	13.2	15.0	30	6.6	15.0	15	2.7	1 3/8	14	580
CNLS02A014	13.2	15.0	30	6.6	15.0	15	2.7	1 5/8	21	630
CNLS02A016	13.2	15.0	30	6.6	15.0	15	2.7	2 1/8	28	680
CNLS03A021	19.8	21.5	35	9.9	15.0	15	4.1	2 1/8	21	930
CNLS03A024	19.8	21.5	35	9.9	15.0	15	4.1	2 1/8	28	1,000
CNLS04A028	26.4	28.1	45	13.2	15.0	20	5.4	2 1/8	21	1,210

Section 3

Air-Cooled Condensers



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Performance & Specifications Data

Specifications Data

Climate Control Base Model	208-230/3/60			460/3/60			Unit KW	Conn. (in.)	Max No. of Feeds	Approx. Net Weight (lbs.)
	Motor FLA	MCA	MOPD	Motor FLA	MCA	MOPD				
CNLS04A032	26.4	28.1	45	13.2	15.0	20	5.4	2 5/8	28	1,310
CNLS05A035	33.0	34.7	50	16.5	20.0	25	6.8	2 5/8	21	1,510
CNLS05A042	33.0	34.7	50	16.5	20.0	25	6.8	2 5/8	28	1,640
CNLS06A050	39.6	41.3	50	19.8	20.6	25	8.1	2 5/8	28	1,950
CNLS07A055	46.2	47.9	60	23.1	23.9	30	9.5	2 @ 2 5/8	28	2,240
CNLD04A020	26.4	28.1	45	13.2	15.0	20	5.4	2 @ 1 3/8	28	1,240
CNLD04A028	26.4	28.1	45	13.2	15.0	20	5.4	2 @ 1 5/8	42	1,340
CNLD04A032	26.4	28.1	45	13.2	15.0	20	5.4	2 @ 2 1/8	56	1,440
CNLD06A042	39.6	41.3	50	19.8	20.6	25	8.1	2 @ 2 1/8	42	1,990
CNLD06A048	39.6	41.3	50	19.8	20.6	25	8.1	2 @ 2 1/8	56	2,140
CNLD08A056	52.8	54.5	70	26.4	27.2	35	10.8	2 @ 2 1/8	42	2,630
CNLD08A065	52.8	54.5	70	26.4	27.2	35	10.8	2 @ 2 5/8	56	2,830
CNLD10A071	66.0	67.7	80	33.0	33.8	40	13.5	2 @ 2 5/8	42	3,290
CNLD10A083	66.0	67.7	80	33.0	33.8	40	13.5	2 @ 2 5/8	56	3,540
CNLD12A100	79.2	80.9	90	39.6	40.4	45	16.2	2 @ 2 5/8	56	4,230
CNLD14A110	92.4	94.1	110	46.2	47.0	50	18.9	4 @ 2 5/8	56	4,910
Models with 1140 RPM (1.5 HP) Fixed Speed Motors										
CNHS01A007	7.0	15.0	25	3.5	15.0	15	1.9	1 3/8	7	330
CNHS01A009	7.0	15.0	25	3.5	15.0	15	1.9	1 3/8	14	360
CNHS02A011	14.0	20.0	35	7.0	15.0	15	3.8	1 3/8	14	580
CNHS02A015	14.0	20.0	35	7.0	15.0	15	3.8	1 5/8	21	630
CNHS02A017	14.0	20.0	35	7.0	15.0	15	3.8	2 1/8	28	680
CNHS03A022	21.0	22.8	40	10.5	15.0	20	5.8	2 1/8	21	930
CNHS03A026	21.0	22.8	40	10.5	15.0	20	5.8	2 1/8	28	1,000
CNHS04A029	28.0	29.8	45	14.0	15.0	20	7.7	2 1/8	21	1,210
CNHS04A034	28.0	29.8	45	14.0	15.0	20	7.7	2 5/8	28	1,310
CNHS05A037	35.0	36.8	50	17.5	20.0	25	9.6	2 5/8	21	1,510
CNHS05A044	35.0	36.8	50	17.5	20.0	25	9.6	2 5/8	28	1,640
CNHS06A053	42.0	43.8	60	21.0	21.9	30	11.5	2 5/8	28	1,950
CNHS07A061	49.0	50.8	70	24.5	25.4	35	13.5	2 @ 2 5/8	28	2,240
CNHD04A021	28.0	29.8	45	14.0	15.0	20	7.7	2 @ 1 3/8	28	1,240
CNHD04A029	28.0	29.8	45	14.0	15.0	20	7.7	2 @ 1 5/8	42	1,340
CNHD04A034	28.0	29.8	45	14.0	15.0	20	7.7	2 @ 2 1/8	56	1,440
CNHD06A044	42.0	43.8	60	21.0	21.9	30	11.5	2 @ 2 1/8	42	1,990
CNHD06A051	42.0	43.8	60	21.0	21.9	30	11.5	2 @ 2 1/8	56	2,140
CNHD08A058	56.0	57.8	70	28.0	28.9	35	15.4	2 @ 2 1/8	42	2,630
CNHD08A068	56.0	57.8	70	28.0	28.9	35	15.4	2 @ 2 5/8	56	2,830
CNHD10A074	70.0	71.8	90	35.0	35.9	45	19.2	2 @ 2 5/8	42	3,290
CNHD10A088	70.0	71.8	90	35.0	35.9	45	19.2	2 @ 2 5/8	56	3,540
CNHD12A106	84.0	85.8	100	42.0	42.9	50	23.1	2 @ 2 5/8	56	4,230
CNHD14A122	98.0	99.8	110	49.0	49.9	60	26.9	4 @ 2 5/8	56	4,910

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Refrigerant Charge & Sound Data

Condenser Refrigerant Charge

The normal summer operating charge for condensers is shown in the table below. This charge can also be used in condensers with fan cycling kits, since added refrigerant is not required for mild weather control. Refer to the technical guide for

1. Calculating the additional refrigerant charge required when using flooded style head pressure controls
2. Calculating the additional refrigerant charge required when fan cycling is used in conjunction with a flooded style head pressure control.

Configurable Models					Summer Charge (lbs)			
CNE	CNQ	CNX	CNL	CNH	R-22	R-410A	R-404A	R-134A
CNES01A008	CNQS01A005	CNXS01A006	CNLS01A007	CNHS01A007	8	7	7	8
CNES01A009	CNQS01A006	CNXS01A008	CNLS01A008	CNHS01A009	10	9	9	10
CNES02A011	CNQS02A008	CNXS02A010	CNLS02A010	CNHS02A011	10	9	9	10
CNES02A015	CNQS02A010	CNXS02A013	CNLS02A014	CNHS02A015	15	14	14	15
CNES02A018	CNQS02A012	CNXS02A015	CNLS02A016	CNHS02A017	20	19	18	20
CNES03A023	CNQS03A016	CNXS03A020	CNLS03A021	CNHS03A022	22	20	20	22
CNES03A027	CNQS03A017	CNXS03A023	CNLS03A024	CNHS03A026	30	28	27	30
CNES04A031	CNQS04A021	CNXS04A026	CNLS04A028	CNHS04A029	51	47	46	50
CNES04A036	CNQS04A023	CNXS04A030	CNLS04A032	CNHS04A034	70	65	64	69
CNES05A039	CNQS05A026	CNXS05A033	CNLS05A036	CNHS05A037	64	60	58	63
CNES05A047	CNQS05A029	CNXS05A038	CNLS05A042	CNHS05A044	86	80	78	85
CNES06A056	CNQS06A034	CNXS06A045	CNLS06A050	CNHS06A053	102	95	93	101
CNES07A065	CNQS07A042	CNXS07A052	CNLS07A055	CNHS07A061	118	110	107	117
CNED04A023	CNQD04A016	CNXD04A020	CNLD04A020	CNHD04A021	19	18	17	19
CNED04A031	CNQD04A021	CNXD04A026	CNLD04A028	CNHD04A029	29	27	26	29
CNED04A036	CNQD04A023	CNXD04A030	CNLD04A032	CNHD04A034	40	37	36	40
CNED06A046	CNQD06A031	CNXD06A039	CNLD06A042	CNHD06A044	44	41	40	44
CNED06A054	CNQD06A034	CNXD06A045	CNLD06A048	CNHD06A051	58	54	53	57
CNED08A062	CNQD08A041	CNXD08A053	CNLD08A056	CNHD08A058	104	97	95	103
CNED08A073	CNQD08A046	CNXD08A061	CNLD08A065	CNHD08A068	140	130	127	139
CNED10A079	CNQD10A052	CNXD10A066	CNLD10A071	CNHD10A074	125	116	114	124
CNED10A093	CNQD10A057	CNXD10A076	CNLD10A083	CNHD10A088	172	160	157	170
CNED12A112	CNQD12A069	CNXD12A091	CNLD12A100	CNHD12A106	201	187	183	199
CNED14A129	CNQD14A083	CNXD14A104	CNLD14A110	CNHD14A123	236	219	215	234

Sound Data

No. of Fans	Sound Data (dBA@ 10 ft.)							
	VSEC Motor Speed				Fixed Speed Motor Type			
	1030 RPM	830 RPM	630 RPM	420 RPM	540 RPM (0.5 HP)	830 RPM (1.0 HP)	830 RPM (1.5 HP)	1140 RPM (1.5 HP)
1	66.9	62	52.9	45.3	49.6	60.8	63.4	72.3
2	69.9	65	55.9	48.3	52.6	63.8	66.4	75.3
3	71.7	66.8	57.7	50.1	54.4	65.6	68.1	77.1
4	72.9	68	58.9	51.3	55.6	66.8	69.4	78.3
5	73.9	69	59.9	52.3	56.6	67.8	70.3	79.3
6	74.7	69.8	60.7	53.1	57.4	68.6	71.1	80.1
7	75.4	70.5	61.4	53.8	58.1	69.3	71.8	80.8
8	75.9	71	61.9	54.3	58.6	69.8	72.4	81.3
10	76.9	72	62.9	55.3	59.6	70.8	73.4	82.3
12	77.7	72.8	63.7	56.1	60.4	71.6	74.1	83.1
14	78.4	73.5	64.4	56.8	61.1	72.3	74.8	83.8

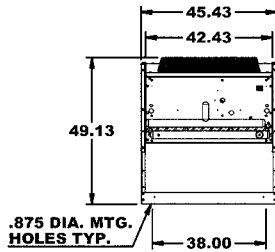
11 – 264 Ton

Dimensional Data

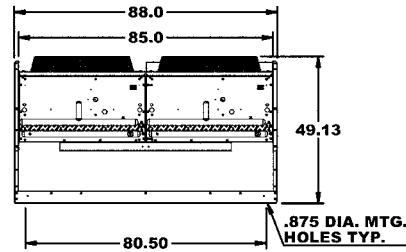
Condenser Dimensions

End Views

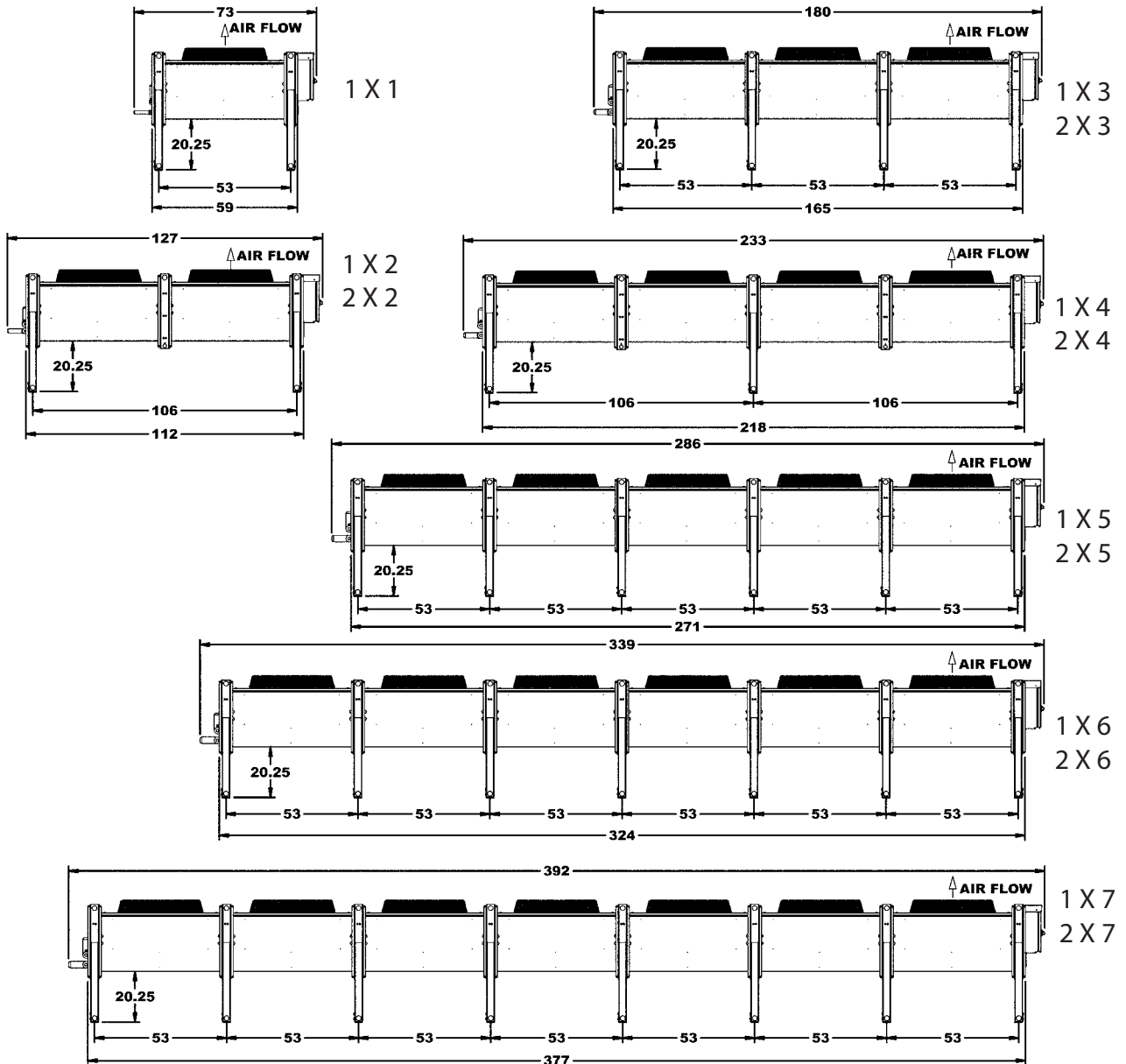
Single Row of Fans



Double Row of Fans



Side Views



Section 3

Microchannel Condenser

Overview



Product Description

The microchannel air-cooled condenser platform provides significant refrigerant and energy savings vs. standard round tube plate fin condensers. These condensers can provide more than a 70% reduction in condenser refrigerant charge due to an efficient coil design and low internal volume. This condenser is available with variable speed EC motors which continuously adjust speed to optimize system performance, providing significant energy savings and sound reduction. The all-aluminum construction of these microchannel coils virtually eliminates the risk of galvanic corrosion enabling application even in harsh environments and coastal areas. The use of microchannel coil technology and energy efficient variable speed EC motors makes this product qualified to be included in the **E Solutions™** product portfolio.

Certifications



Standard Features

Ease of Installation & Service

- Up to 34% lighter than comparable air-cooled condensers with round-tube, plate fin coils
- Approximately 25% lower in height (with same clearance) compared to traditional air-cooled condensers.
- 20" Clearance legs are standard with 40" extended legs available as an option
- Standard connection manifold provided for single circuiting. Other circuiting configurations are available.
- Factory wired for customer supplied analog signal
- Direct acting, series wired motor control
- Through-the-door non-fused disconnect switch
- End access panels for coil-cleaning

Reliable & Durable

- The mono-metal construction of the microchannel coils virtually eliminates the risk of galvanic corrosion. A zinc cladding standard on all coils provides additional corrosion resistance for harsh environments.
- Standard product warranty of 1 year with a 2 year warranty on the microchannel coil and a 3 year warranty on the variable speed EC motors.

Performance

- 70% or more reduction in refrigerant charge due to microchannel coils very high primary to secondary surface area ratio. This allows very efficient heat exchange while maintaining a low internal tube volume.
- Available variable speed EC motors provide optimal energy and sound performance
- Fixed speed AC motors are designed to be compatible for use with variable frequency drives (VFD's).
- Internal baffles between all fan cells.
- SunSource solar energy option also available on this product.

Nomenclature

NR	G	D	04	A	027
Product Line	Model Identifier	Width	# of Fans	Model Identifier	Standard Capacity
NR = Air Cooled Condenser w/ Microchannel Coil Technology	G = 710mm VSEC J = 710mm AC	D = Dual	02 = 2 04 = 4 06 = 6 08 = 8	A = Current Revision	(MBH/Degree TD, R404A)

Microchannel Condenser

Performance & Specifications Data

Performance Data

Units are optimized for operation at or below 15° Design T.D. Operation above 15° T.D. may result in excessive pressure drop.

Climate Control Base Model	Fan Data		Capacity (MBH / 1° TD)	
	No. of Fans	CFM	R-404A/507	R-22/R-410A
Models with 710mm VSEC Motors				
NRGD02A014	2	13,700	13.5	13.8
NRGD04A027	4	27,400	27.0	27.5
NRGD06A041	6	41,100	40.5	41.3
NRGD08A054	8	54,800	54.0	55.1
Models with 710mm AC Motors				
NRJD02A014	2	13,700	13.5	13.8
NRJD04A027	4	27,400	27.0	27.5
NRJD06A041	6	41,100	40.5	41.3
NRJD08A054	8	54,800	54.0	55.1

Specifications Data

Climate Control Base Model	208-230/3/60			460/3/60			Connections		R-404A Flooded Refrigerant Charge (lbs.)	Approx. Net Weight (lbs.)	Approx. Ship Weight (lbs.)
	Motor FLA	MCA	MOPD	Motor FLA	MCA	MOPD	Inlet. (in.)	Outlet. (in.)			
Models with 710mm VSEC Motors											
NRGD02A014	4.0	15.0	15	2.0	15.0	15	(1) 1-1/8	(1) 7/8	10	470	600
NRGD04A027	8.0	15.0	15	4.0	15.0	15	(1) 2-1/8	(1) 1-5/8	20	920	1,135
NRGD06A041	12.0	15.0	15	6.0	15.0	15	(1) 2-1/8	(1) 1-5/8	30	1,370	1,660
NRGD08A054	16.0	20.0	20	8.0	15.0	15	(1) 2-5/8	(1) 2-1/8	40	1,820	2,175
Models with 710mm AC Motors											
NRJD02A014	9.6	15.0	20	5.6	15.0	15	(1) 1-1/8	(1) 7/8	10	470	600
NRJD04A027	19.2	20.4	30	11.2	15.0	15	(1) 2-1/8	(1) 1-5/8	20	920	1,135
NRJD06A041	28.8	30	40	16.8	20	25	(1) 2-1/8	(1) 1-5/8	30	1,370	1,660
NRJD08A054	38.4	39.6	50	22.4	23.1	30	(1) 2-5/8	(1) 2-1/8	40	1,820	2,175

Connection Manifold Sizes By Coil Circuiting Option

Climate Control Base Model	Coil Circuiting Option	Connection Manifold Sizes	
		Manifold Inlet. (in.)	Manifold Outlet. (in.)
NR*D04A027	Single Circuit	(1) 2-1/8	(1) 1-5/8
NR*D04A027	50/50 Split	(2) 1-1/8	(2) 7/8
NR*D06A041	Single Circuit	(1) 2-1/8	(1) 1-5/8
NR*D06A041	66/33 Split	(1) 2-1/8 (1) 1-1/8	(1) 1-5/8 (1) 7/8
NR*D06A041	33/33/33 Split	(3) 1-1/8	(3) 7/8
NR*D08A054	Single Circuit	(1) 2-5/8	(1) 2-1/8
NR*D08A054	50/50 Split	(2) 2-1/8	(2) 1-5/8
NR*D08A054	75/25 Split	(1) 2-1/8 (1) 1-1/8	(1) 1-5/8 (1) 7/8
NR*D08A054	50/25/25 Split	(1) 2-1/8 (2) 1-1/8	(1) 1-5/8 (2) 7/8
NR*D08A054	25/25/25/25 Split	(4) 1-1/8	(4) 7/8

Microchannel Condenser

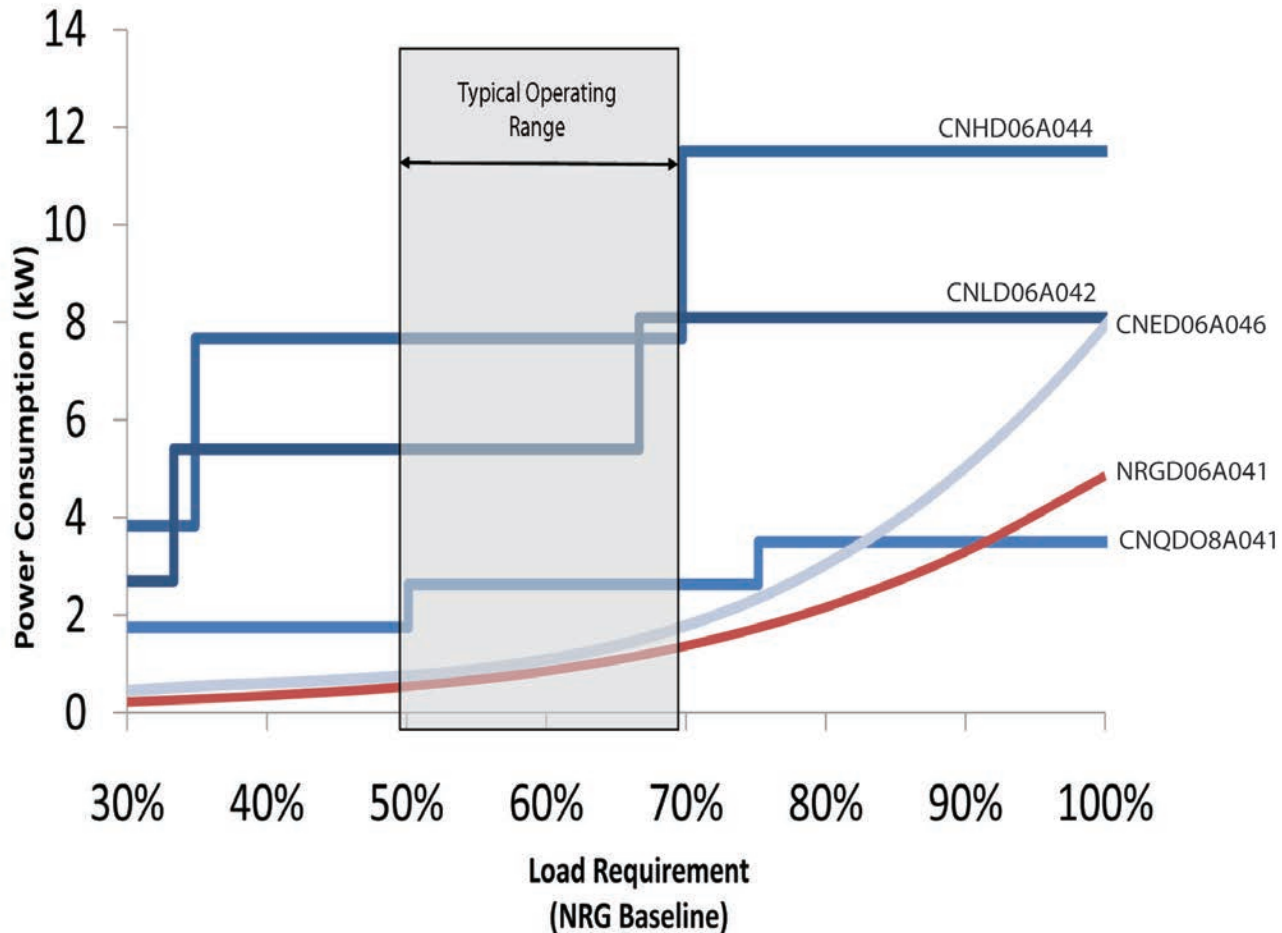
Energy and Sound Performance

Power Consumption Data

Climate Control Base Model	Unit Power Consumption (kW)							
	710mm VSEC Motors				710mm AC Motors			
	30% Speed (255 RPM)	50% Speed (425 RPM)	70% Speed (595 RPM)	100% Speed (850 RPM)	30% Speed (255 RPM)	50% Speed (425 RPM)	70% Speed (595 RPM)	100% Speed (850 RPM)
NRGD02A014	0.1	0.3	0.6	1.6	-	-	-	-
NRGD04A027	0.2	0.5	1.2	3.2	-	-	-	-
NRGD06A041	0.3	0.8	1.8	4.9	-	-	-	-
NRGD08A054	0.3	1.0	2.4	6.5	-	-	-	-
NRJD02A014	-	-	-	-	0.3	0.5	1	2.4
NRJD04A027	-	-	-	-	0.6	1	2	4.8
NRJD06A041	-	-	-	-	0.8	1.5	3	7.2
NRJD08A054	-	-	-	-	1.1	2	4	9.6

Typical Operating Range is based on operating conditions usually found in supermarket applications. This chart compares the power consumption of a NRG and NRJ models verses equivalent models from the 11-264 Ton Air-Cooled Condenser family.

Power Comparison Chart



Section 3

Microchannel Condenser

Energy and Sound Performance

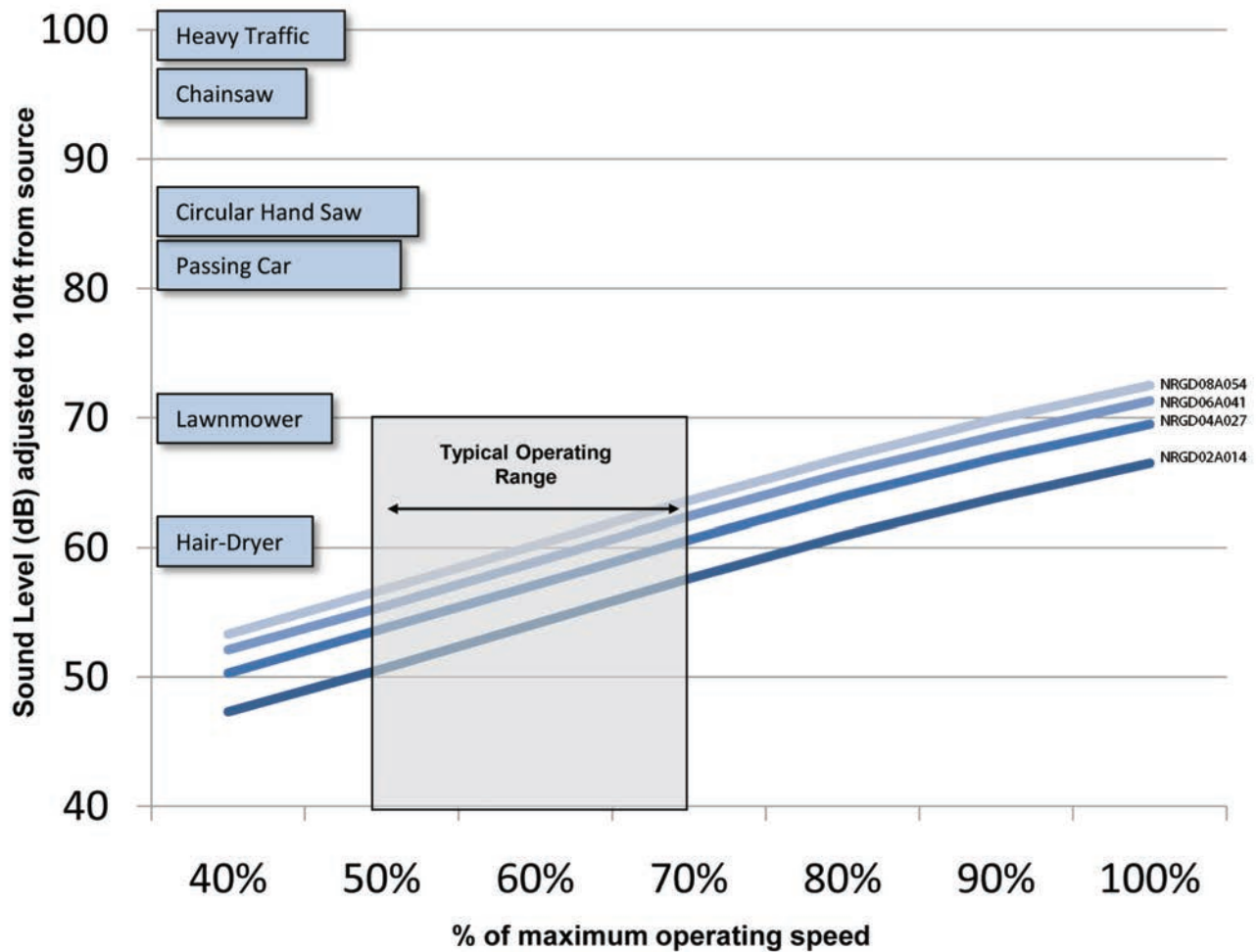
Sound Data

Climate Control Base Model	Sound Data (dBA @ 10 ft.)			
	710mm VSEC Motors			
	30% Speed (255 RPM)	50% Speed (425 RPM)	70% Speed (595 RPM)	100% Speed (850 RPM)
NR*D02A014	44.3	50.6	57.6	66.5
NR*D04A027	47.3	53.7	60.6	69.5
NR*D06A041	49.1	55.4	62.4	71.3
NR*D08A054	50.3	56.7	63.6	72.5

Sound Level Comparison Chart

Typical Operating Range is based on operating conditions usually found in supermarket applications. This chart compares the sound level of all NRG and NRJ models versus the sound levels of other commonly found sources.

Sound Comparison Chart



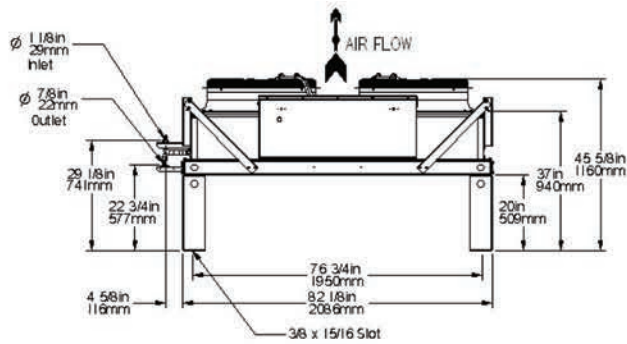
Source: <http://www.sengpielaudio.com/tableofsoundpressurelevels.htm> > Adjusted to 10ft

Microchannel Condenser

Dimensional Data

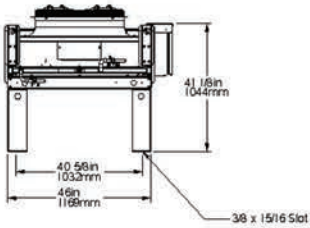
Condenser Dimensions

Front View

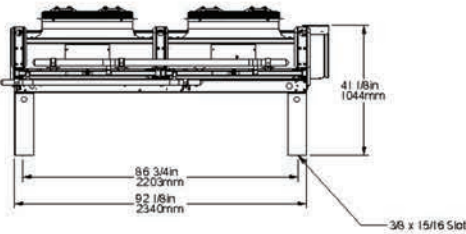


Note: Drawing shown with standard 20" legs

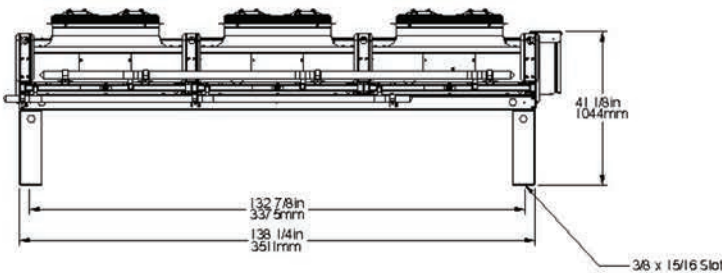
Side View



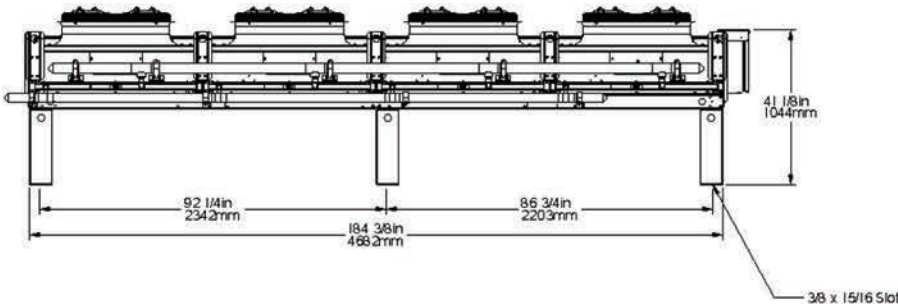
2 Fan



4 Fan



6 Fan



8 Fan

* Note: Dimensional drawings include factory manifolding

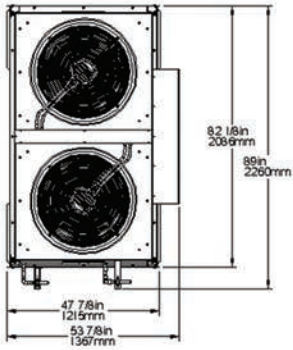
Section 3

Microchannel Condenser

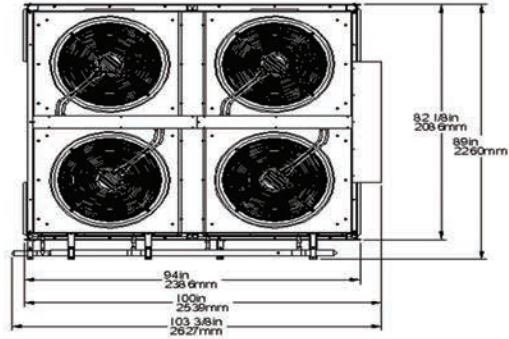
Dimensional Data

Condenser Dimensions

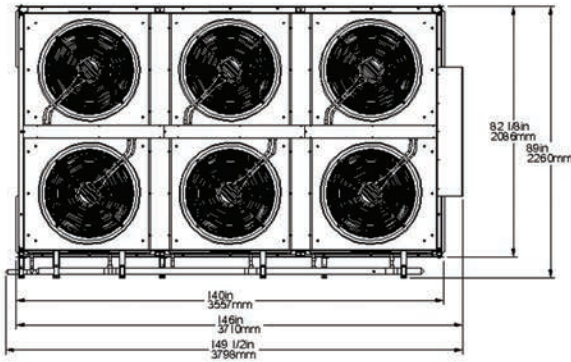
Top View



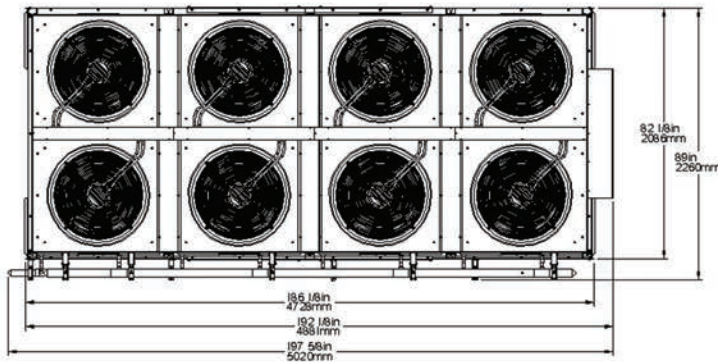
2 Fan



4 Fan



6 Fan



8 Fan

* Note: Dimensional drawings include factory manifolding

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Small Fluid Coolers

Overview



Product Description

Direct-drive fluid coolers, available in horizontal or vertical airflow, are ideal for commercial/industrial locations. Available in sizes 5 to 26 tons, these units are easy to install and maintain. Specifically engineered for outdoor installations, the cabinet is constructed of heavy gauge aluminum to resist corrosion in all climates.

Certifications



Standard Features

Ease of Installation & Service

- Completely assembled and tested at the factory
- All fan motor leads are wired to a weatherproof electrical enclosure for single-point field wiring

Reliable & Durable

- Cabinets are heavy-duty construction and designed for outdoor applications; tube sheets and all structural members are fabricated from galvanized steel
- Cabinet panels are fabricated from heavy-gauge aluminum for an attractive appearance and corrosion protection
- Coils are fabricated with corrugated aluminum fins with staggered copper tubes for optimum heat transfer; all units are pressure-tested, dehydrated and pressurized prior to shipment
- Balanced fans, featuring heavy gauge aluminium blades riveted to plated steel spiders
- Corrosion resistant fan blades and guards
- Fan guards are coated steel for optimum corrosion protection
- Wide fin spacing minimizes fouling from foreign materials
- Fan motors have thermal overload protection and permanently lubricated ball bearings

Performance

- Fully baffled fan sections provide structural strength and prevent fan wind-milling in the off cycle
- Coils are the patented cross-fin coil with staggered seamless copper tubes expanded into full collar aluminum fins for high heat transfer efficiency

Versatile

- Available in horizontal or vertical airflow
- Sizes available from 10 GPM through 160 GPM
- A wide selection of circuit options maximizes performance at minimal cost

Nomenclature

WGS	107
Product Line	Size
Direct Drive Fluid Cooler	Model

Small Fluid Coolers

Performance & Specifications Data

Capacity Ratings: 10 – 70 GPM

PD is glycol fluid loss in feet of water at 130°F fluid temperature.

Climate Control Base Model	Max No. of Feeds	Capacity Ratings, 40% Ethylene Glycol at 130°F Average Fluid Temperature																	
		GPM																	
		10		15		20		25		30		40		50		60		70	
		MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)
WGS049	8	2.36	14.00	2.71	28.70	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS049	12	2.23	4.70	2.58	9.70	2.8	16.10	2.95	24.00	-	-	-	-	-	-	-	-	-	-
WGS049	16	-	-	2.47	4.50	2.7	7.50	2.85	11.20	2.97	15.50	-	-	-	-	-	-	-	-
WGS080	12	3.07	7.40	3.67	15.10	4.04	25.20	-	-	-	-	-	-	-	-	-	-	-	-
WGS080	16	-	-	3.55	7.00	3.92	11.60	4.17	17.30	4.35	23.80	-	-	-	-	-	-	-	-
WGS080	21	-	-	-	-	3.79	5.60	4.05	8.40	4.24	11.50	4.49	19.20	4.66	28.50	-	-	-	-
WGS080	32	-	-	-	-	-	-	-	-	4.02	3.80	4.3	6.40	4.49	9.40	4.62	13.00	-	-
WGS107	12	3.46	7.50	4.32	15.50	4.88	25.70	-	-	-	-	-	-	-	-	-	-	-	-
WGS107	16	-	-	4.16	7.10	4.73	11.90	5.13	17.60	5.42	24.30	-	-	-	-	-	-	-	-
WGS107	24	-	-	-	-	4.46	4.00	4.86	6.00	5.17	8.30	5.6	13.80	5.89	20.40	6.1	28.20	-	-
WGS123	12	3.62	7.50	4.62	15.50	5.3	25.70	-	-	-	-	-	-	-	-	-	-	-	-
WGS123	16	-	-	4.45	7.10	5.12	11.90	5.61	17.60	5.99	24.30	-	-	-	-	-	-	-	-
WGS123	24	-	-	-	-	4.81	4.00	5.3	6.00	5.68	8.30	6.23	13.80	6.6	20.40	6.88	28.20	-	-
WGS147	12	3.92	9.40	5.12	19.30	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS147	16	-	-	4.96	8.90	5.78	14.70	6.39	21.90	-	-	-	-	-	-	-	-	-	-
WGS147	24	-	-	-	-	5.49	5.00	6.08	7.40	6.53	10.20	7.19	16.90	7.64	25.20	-	-	-	-
WGS165	12	4.17	12.40	5.57	25.40	-	-	-	-	-	-	-	-	-	-	-	-	-	-
WGS165	21	-	-	-	-	7.27	9.20	8.44	13.70	9.43	18.90	-	-	-	-	-	-	-	-
WGS165	32	-	-	-	-	-	-	6.57	4.40	7.09	6.10	7.84	10.20	8.34	15.10	8.7	20.90	-	-
WGS211	16	-	-	5.93	12.30	7.22	20.50	-	-	-	-	-	-	-	-	-	-	-	-
WGS211	24	-	-	-	-	6.93	6.80	7.9	10.20	8.68	14.00	9.83	23.30	-	-	-	-	-	-
WGS211	48	-	-	-	-	-	-	-	-	-	-	8.97	3.70	9.78	5.50	10.41	7.50	10.89	9.90
WGS225	24	-	-	-	-	6.99	6.80	7.98	10.20	8.78	14.00	9.96	23.30	-	-	-	-	-	-
WGS225	48	-	-	-	-	-	-	-	-	-	-	9.25	3.70	10.14	5.50	10.82	7.50	11.36	9.90
WGS248	21	-	-	-	-	7.65	12.90	8.81	19.10	9.73	26.30	-	-	-	-	-	-	-	-
WGS248	32	-	-	-	-	-	-	8.44	6.10	9.33	8.40	10.66	14.00	11.58	20.80	12.25	28.70	-	-
WGS248	64	-	-	-	-	-	-	-	-	-	-	-	-	10.63	3.30	11.33	4.50	11.88	6.00

Section 3

Small Fluid Coolers

Performance & Specifications Data

Capacity Ratings: 80 – 160 GPM

PD is glycol fluid loss in feet of water at 130°F fluid temperature.

Climate Control Base Model	Max No. of Feeds	Capacity Ratings, 40% Ethylene Glycol at 130°F Average Fluid Temperature																	
		GPM																	
		80		90		100		110		120		130		140		150		160	
		MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)	MBH / °TD	PD (ft)
WGS211	48	11.29	12.60	11.61	15.50	11.88	18.60	12.12	22.10	12.31	25.70	-	-	-	-	-	-	-	-
WGS225	48	11.8	12.60	12.16	15.50	12.46	18.60	12.72	22.10	12.94	25.70	-	-	-	-	-	-	-	-
WGS248	64	12.33	7.50	12.69	9.30	12.98	11.20	13.24	13.30	13.46	15.50	13.64	17.80	13.81	20.30	13.95	23.00	14.08	25.70

Electrical Ratings & Fan Motor Data for 60 Hz.

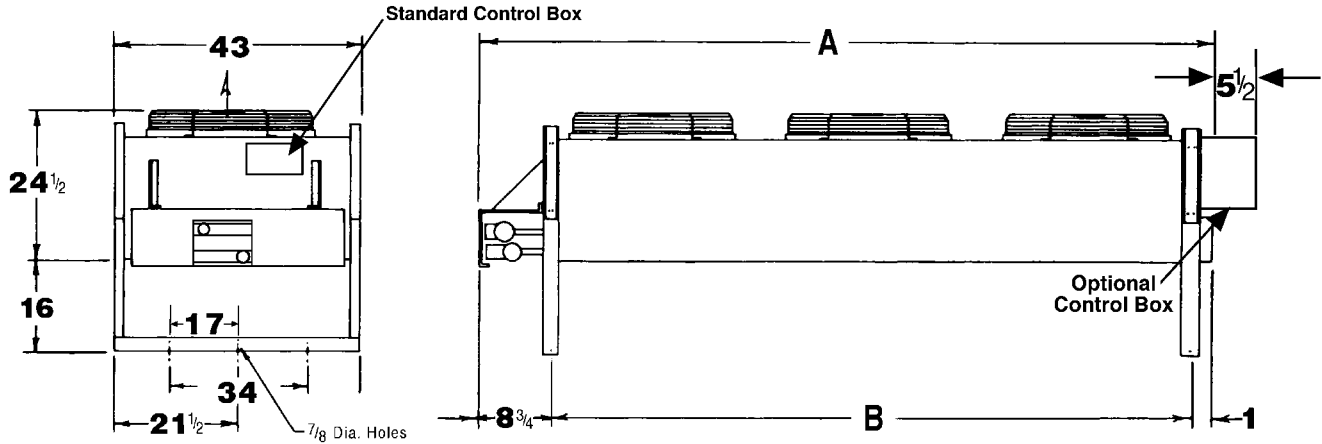
Climate Control Base Model	Fan Data			MCA	MOPD	PSC Motor		Polyphase Motor			
	No. of Fans	Fan Dia. (in.)	CFM			208-230/1/60		208-230/3/60		460/3/60	
						Motor HP	Motor FLA	Motor HP	Motor FLA	Motor HP	Motor FLA
WGS049	1	24	5,050	15	15	1/3	3.4	1/3	2.6	1/3	1.3
WGS080	1	26	6,450	15	15	1/2	3.9	1/3	2.6	1/3	1.3
WGS107	2	24	10,100	15	15	1/3	6.8	1/3	5.2	1/3	2.6
WGS123	2	26	12,400	15	15	1/2	7.8	1/3	5.2	1/3	2.6
WGS147	2	26	13,700	15	15	1/2	7.8	1/3	5.2	1/3	2.6
WGS165	2	26	12,900	15	15	1/2	7.8	1/3	5.2	1/3	2.6
WGS211	3	26	20,500	15	15	1/2	11.7	1/3	7.8	1/3	3.9
WGS225	3	26	19,900	15	15	1/2	11.7	1/3	7.8	1/3	3.9
WGS248	3	26	19,400	15	15	1/2	11.7	1/3	7.8	1/3	3.9

Small Fluid Coolers

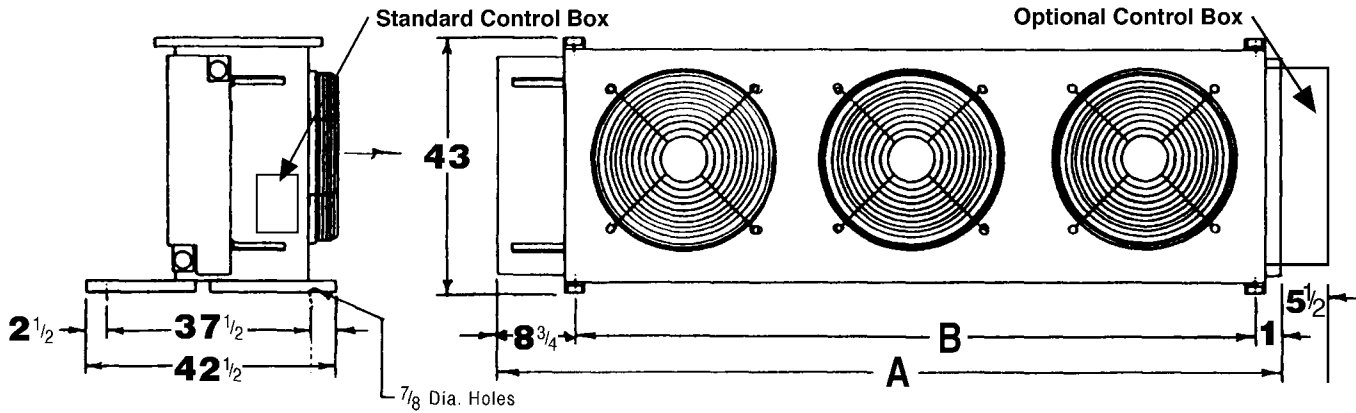
Performance & Specifications Data

Dimensional Drawings

Model WGS049 - 248 with Vertical Air Flow



Model WGS049 - 248 with Horizontal Air Flow



Physical Data

Climate Control Base Model	Fan Config.	Net Dimension		Approx. Net Weight (lbs.)
		A (in.)	B (in.)	
WGS049	1x1	39 3/4	30	205
WGS080	1x1	49 3/4	40	260
WGS107	1x2	69 3/4	60	330
WGS123	1x2	69 3/4	60	348
WGS147	1x2	89 3/4	80	420
WGS165	1x2	89 3/4	80	436
WGS211	1x3	129 3/4	120	565
WGS225	1x3	129 3/4	120	580
WGS248	1x3	129 3/4	120	610

Connection Sizes

Based on number of feeds

Max No. of Feeds	Connections (in)	
	Inlet ODS	Outlet ODS
8	1 1/8	1 1/8
12	1 3/8	1 3/8
16	1 3/8	1 3/8
21	1 5/8	1 5/8
24	2 1/8	2 1/8
32	2 1/8	2 1/8
48	2 5/8	2 5/8
64	2 5/8	2 5/8

Beacon II™ Refrigeration System

System Overview



Product Description

Beacon II™ Refrigeration System is a patented, pre-assembled, factory-installed refrigeration control system featuring an integrated microcomputer-based electronic control board and an electric expansion valve at the heart of the system. With components factory mounted at both the condensing unit and evaporator, the Beacon II™ system can be used with single or multiple evaporator applications. While perfect for restaurants and convenience stores, the Beacon II™ system can be scaled up to meet the needs of larger refrigerated warehouses with optional system devices such as the Beacon II™ Smart Controller and Communications Hub.

Certifications



Features and Benefits

Reduced Installation Time/Cost

- Factory mounted components, testing, and programming substantially reduces field assembly and fine tuning at the job site

Increased System Efficiency & Reliability

- Beacon II™ electronic control board and electric expansion valve more accurately controls the flow of refrigerant versus traditional thermal expansion and solenoid valves
- Preset factory superheat allowing the system to run more efficiently and reducing future adjustments

Reduced Energy & Operating Costs

- Reduce up to 75% of unnecessary defrosts per day versus traditional timer systems with the Beacon II™ Smart Defrost

Improved Product Integrity & Reduced Spoilage

- Precise temperature control improves product integrity while alarm notifications helps prevent small problems from turning into large problems

Strengthen Food Safety Compliance Programs

- Data-logging capability helps comply with FDA and USDA HACCP food safety requirements

Compatible with the Remote Refrigeration Control

- Web based remote monitoring and control service offering that provides instant access 24/7 to real time refrigeration system status and information

Factory Mounted Components

Condensing Unit

- Wired for Beacon II™ control with all necessary relays, contactors, time delay, and terminal blocks
- Outdoor air temperature sensor

Evaporator

- Beacon II™ control board with easy to read alphanumeric LED display
- Three temperature sensors (defrost temp, suction temp, room temp)
- Electronic expansion valve that closes automatically on loss of power
- 24-volt transformer, 24-volt compressor contactor, low pressure time delay switch, and suction pressure transducer

Eliminated Components

These traditional components are not required with a Beacon II™ system:

- Liquid-line solenoid valve
- Room thermostat
- Thermal expansion valve
- Defrost time clock
- Defrost termination/fan delay switch
- Defrost and fan contactors

Optional Devices

- Beacon II™ Smart Controller
- Beacon II™ Smart Defrost
- Beacon II™ Smart II Software
- Beacon II™ Communications Hub

InterLink Smart Defrost Kit™

Factory-Installed Option



Product Description

The InterLink™ Smart Defrost Kit™ (SDK) was designed to be installed on any size electric defrost freezer system with an electromechanical time clock such as the Paragon 8145 or Grasslin timer setup for three or more scheduled defrosts a day. Once installed, the SDK learns the system, enabling it to predict frost accumulation on the evaporator and determine whether or not a defrost is necessary. Available as a factory installed option on condensing units.

Certifications



Features & Benefits

Reduced Energy & Operating Costs

- Customers typically see up to a 40% reduction in number of defrosts – fewer defrosts result in less energy usage and lower energy bills

Enhanced Product Integrity

- Because the system isn't defrosting unnecessarily, box temperatures are more stable, ultimately improving the integrity of stored products

Performance Verified by Intertech/ETL

- 43.6% of scheduled defrost cycles skipped verified during a field test at a national restaurant chain by a third party testing company

ServiceMate™

Standard Feature



Product Description

ServiceMate™ is an innovative, troubleshooting technology that provides immediate, visual feedback on the status of system control components. This results in reduced diagnostic time and equipment downtime - that translates into cost savings on service calls for customers and time savings for contractors. ServiceMate™ comes standard on all 3-80 HP air-cooled, Discus and Scroll condensing units. Cannot be used with Beacon II™ condensing units.

Features & Benefits

Reduced Diagnostic Time = Reduced Equipment Downtime

- Indicator lights show the status of control devices and control voltage. Provides visual situation feedback and quickly identifies any "open" circuits

Reduced Wire Tracing Time

- Common termination connection point for all control circuit wiring.

Designed For 230V Control Circuit

Monitors Status Without Affecting Normal Operations

- Does not control the condensing unit operation and a damaged module will not affect system operation.

Reliable Performance

- Semi-intelligent terminal block with no moving parts

SunSource™

Factory-Installed Option



Product Description

The SunSource™ Commercial Refrigeration Energy System integrates solar power directly with an appropriately configured microchannel condenser. The SunSource system allows building owners to take control of their building's energy costs and can even enable grid-free operation during peak generation in many applications.

Features & Benefits

Ease of Installation

- Plug-and-play design
- Micro-inverter design eliminates dangerous high voltage DC power lines which typically require specialists to install
- Plug-and-play design
- Allows for integration of solar energy without changes to the building's electrical infrastructure
- Uses specially configured condenser as the interface with the building/grid power supply
- Installation costs can be up to 15% less than traditional solar energy systems

Performance

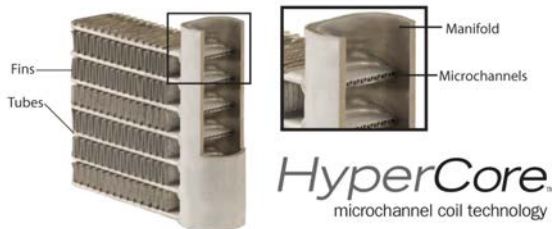
- Use of multiple micro-inverters increases redundancy to ensure system remains operational even in if an individual inverter fails
- Communication module provides online monitoring of system status, energy production, and environmental benefits in real-time

Safety

- Each micro-inverter has a maximum output of 50 volts. This design is much safer than the design typically found in high voltage DC lines of traditional solar power systems—which can reach as high as 600 volts.
- In the event of a power loss or system shutdown, the micro-inverters stop transmitting power

HyperCore™ Micro-Channel Coils

General Information



Product Description

HyperCore™ microchannel condenser coils, a standard feature on the ½ - 6 HP air-cooled condensing units, are all-aluminum coils with multiple flat tubes containing small channels (microchannels) through which refrigerant flows. Heat transfer is maximized by the insertion of angled and louvered fins inbetween the flat tubes. These components are joined with two refrigerant manifolds using an aluminum-zinc alloy brazing material in a nitrogen-charged braze furnace to make the completed microchannel coil.

Features & Benefits

Improved Heat Transfer Performance

- 20-30% higher than traditional copper-aluminum round-tube plate fin (RTPF) coils with epoxy coating of the same size, enabling comparable capacity achievement with a smaller coil

Improved Corrosion Protection

- Monometal (aluminum) construction gives no opportunity for galvanic corrosion – HyperCore™ microchannel coils have been proven to last up to two times (2X) longer than standard RTPF coils in extended tests

Reduced Refrigerant Charge & Reduced Costs

- Condenser coil refrigerant charge may be reduced by up to 75%, leading to as much as a 40% reduction in system charge and reducing costs for end users

Improved Durability & Reduced Potential for Leaks

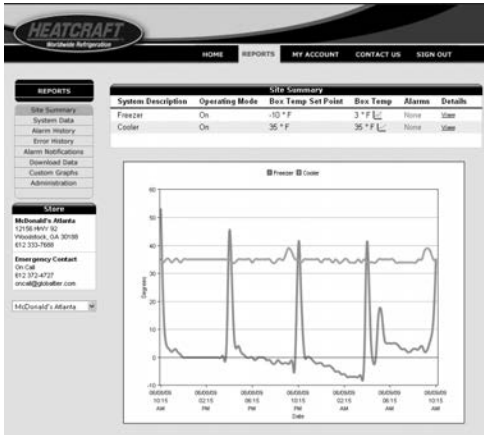
- Require only one manual braze operation versus 50-100 manually brazed joints for RTPF, significantly reducing the likelihood for leaks
- Flat tubes serve as a fin guard to help protect the fins from damage

Environmentally Friendly

- 100% recyclable
- Reduced refrigerant helps decrease the potential for ozone depletion and global warming

Remote Refrigeration Control

General Information



Product Description

The Remote Refrigeration Control, perfect for both foodservice and cold storage applications, is a web based remote monitoring and control service offering that provides instant access 24/7 to real time refrigeration system status and information. Heatcraft is proud to offer the most advanced commercial refrigeration system monitoring package available in the industry. The Remote Refrigeration Control is compatible with both the Beacon II™ Refrigeration System and the Mohave™ Advanced Hot Gas Defrost System.

Features and Benefits

Securely Manage Your Beacon II Refrigeration Systems From Any Web Enabled Device 24/7

- Monitor and control the Beacon II refrigeration system(s) at one or more sites through a single website
- Secure login with multiple user level profiles and access rights

Improve System Efficiency & Reliability

- Real-time system information and advanced reporting/graphing capabilities provide you the tools necessary to keep your system running at peak performance

Increase Product Integrity & Service Call Effectiveness

- System Alarm Alerts sent 24/7 via e-mail or SMS text message notify you promptly of refrigeration system alarm conditions
- Remote troubleshooting capability improves first call resolution by providing refrigeration system data to the user

Strengthen Food Safety Compliance Programs

- Data-logging, advanced reporting capabilities, and alarm notification capabilities help comply with FDA and USDA HACCP food safety requirements

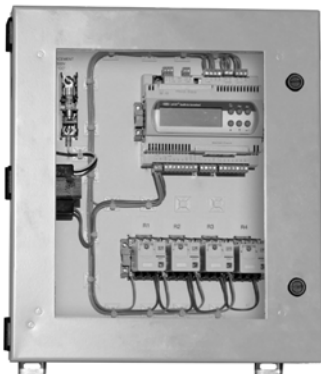
A Service Package That Meets Your Needs

- Collect and display 40+ datapoints from your Beacon II refrigeration system in real-time

For more information, please contact your local Sales Representative or Account Engineer.

Lead Lag Control System

General Information



Product Description:

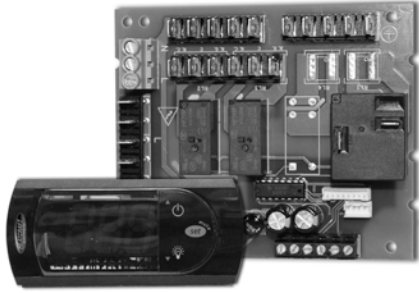
The Lead Lag Control System provides an integrated thermostat and staging control for cold rooms with multiple refrigeration systems. Lead Lag Control Systems are available for 2 to 4 systems and utilize predictive control algorithms to increase systems reliability and energy efficiency. The Lead Lag Control System is compatible with both conventional refrigeration systems and Mohave Advanced Hot Gas Defrost Systems.

Features and Benefits

- Controls from 2 to 4 systems
- Integrated thermostat with multiple temperature sensor capability
- Controls both conventional and Mohave refrigeration systems
- Suitable for either 100% redundant or split load applications
- Alarm capability for High and Low Temperature, Controller Power Loss and Temperature Sensor Failure
- Predictive control algorithm utilizing Output Time or FIFO control strategies to equalize system run times
- Compressor run and staging timers
- User friendly interface
- Increased system reliability
- Energy efficient

Split System Controller

General Information



Product Description:

Heatcraft Worldwide Refrigeration introduces an innovative walk-in cooler controller solution to provide improved defrost control. The new Split System Controller combines three mechanical components into one electronic solution to reduce defrost complexity; providing restaurant and business operators with a simple, reliable and flexible solution.

Features and Benefits

- Replaces three mechanical components:
- Defrost termination switch
- Defrost timer
- Mounted thermostat
- Preprogrammed parameters suited to your environment
- One controller for all operating temperatures
- Wiring eliminated to condensing unit, reducing install time
- Easy to read LED display
- Remote monitoring and control capability to improve defrost performance
- 66% reduction in required defrost components
- Built-in alarm and error code options

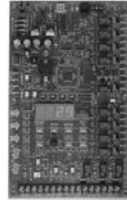
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Mohave™ Advanced Hot Gas Defrost System

6 to 40 HP Split Systems



Mohave™
THE ADVANCED HOT GAS DEFROST SYSTEM



Product Description

Mohave™ Advanced Hot Gas Defrost System is a heat pump based design consisting of a vertical discharge condensing unit matched to one or two evaporators, medium profile or large unit coolers. Featuring a state-of-the-art electronic defrost controller, the system operates in all outdoor ambient temperatures (tested to -20°F) and uses a proprietary control scheme to automatically adjust to changing conditions so that the system continues to operate at its most optimal level. The Mohave™ Advanced Hot Defrost System is designed for simplicity and optimal performance for use in agricultural, process cooling, cold storage and warehouse applications. The energy efficiency of this line makes it qualified to be included in the **E Solutions™** product portfolio.

Certifications



Features & Benefits

Most Advanced

- The most sophisticated controller used for hot gas defrost applications
- Optimizes performance with changing conditions. There is no need to seasonally adjust settings!
- Sensors gather information and assess the condition of the system to defrost more efficiently

Most Versatile

- Performs exceptionally in all ambient conditions because the controller automatically adjusts to operate efficiently and effectively. Traditional systems often have to be adjusted by hand twice a year.
- Service switch, which allows the system to "sleep" until needed next, is perfect for seasonal agricultural applications.

Simplest to Use

- Control board is preset with factory settings optimized for model size and refrigerant type. No programming is required!
- Basic and expert menu modes allow for flexibility for various degrees of expertise

Lowest Maintenance

- No valves or times to adjust for seasonal conditions
- No water tank to maintain or check for leaks
- Advanced troubleshooting keeps you in the know all the time, with a minimal amount of effort.
- Special Evacuation Mode opens all necessary valves

Best Investment Protection

- Controller is customized to operate within the specified operation envelope, ensuring the safest and most efficient performance
- No guesswork is involved in the system settings, so you do not have to compromise the integrity of your product
- Detailed error and alarm codes greatly reduce troubleshooting time

Compatible With Heatcraft Vantage™ Console

- Web based remote monitoring and control service offering that provides instant access 24/7 to real time refrigeration system status and information

System Components

Electronic Control Board

- Controller completely manages timing and sequence of defrost
- Automatically compensates for changes in outdoor temperatures
- Monitors all pressures, temperatures, and set points in real time
- Easily programmable through a menu driven interface
- Conformal coated to handle the toughest conditions
- LED indication on the board clearly shows system status
- Remote alarm notification

Vertical Discharge Condensing Unit

- Available Models: 6-30 HP low temperature and 7-40 HP medium temperature
- Featuring Discus semi-hermetic compressors

Evaporators

- One or two medium profile evaporators or large unit coolers per system

For more information, please contact your local Sales Representative or Account Engineer.

Two Stage Condensing Units & Systems

5 to 30 HP



Product Description

Two stage condensing, units with Bitzer compressors, matched with 1 or 2 Medium Profile evaporators are designed for applications requiring a suction temperature below -40° F SST. The two stage system can operate down to -65° F SST which allows for room temperatures down to -50° F. These systems are ideal for blood, plasma, pharmaceutical, food and various other storage needs.

Certifications

ETL-508a listed control panel

Standard Features

Condensing Unit

- Bitzer two stage compressor
- Discharge and suction vibration eliminators
- Discharge muffler
- Encapsulated high pressure switch
- Adjustable low pressure switch with superhose
- Crankcase heater and crankcase pressure regulator
- Compressor contactor w/circuit breaker
- Floating Tube™ coil design
- Flooded head pressure controls
- Pressure fan cycling (multiple fan units)
- Oil separator - return line solenoid valve and time delay
- Mechanical subcooler
- Replaceable core liquid line filter drier
- Suction accumulator and replaceable core suction filter
- Defrost timer
- Defrost heater and evaporator fan contactors with fusing
- Phase monitor, anti short cycle timer, and pumpdown switch

Evaporator

- Thermo-Flex™ coil design
- Thermostatic expansion valve factory installed
- Liquid line solenoid valve factory installed
- Low temperature motors
- Double wall insulated drain pan
- Adjustable defrost termination and fan delay

For more information, please contact your local Sales Representative or Account Engineer.

FlexPack™

5 to 18 HP



FLEXPACK™

Product Description

FlexPack™ multiple compressor condensing units offer the flexibility for a wide range of applications. The modular design accommodates up to three compressors (1/2 to 6 HP Hermetic or Scroll), is available in 230/1/60 or 230/3/60, and with R-22 and R-404A models for medium or low temperature applications. Perfect for restaurants and convenience stores where remote condenser circuits are needed for ice machines, drink dispensers, display cases and more, this product significantly reduces air conditioning energy costs by reducing the heat load in the space. Features of this line provide outstanding results for the refrigeration system and bottom line.

Certifications



Features and Benefits

Flexible Design

- Modular design accommodates up to 3 compressors (1/2 to 6 HP Hermetic or Scroll)
- System capacity range from 5 to 18 HP (dependent upon cabinet size)
- Small footprint
- Rooftop AC style appearance to blend with existing equipment

Reduced Installation Costs and Easy Serviceability

- Hinged access panels to refrigeration and electrical components
- Single roof penetration
- Single-point main power
- Clean and intuitive electrical and piping layout

Durable & Reliable

- 14-gauge galvanized steel frame
- Industrial grade, painted galvanized steel
- 1-year parts warranty
- 4-year optional compressor warranty

Increased Energy Efficiency & Reduced Sound

- Remote condenser circuits reduce heat load into space resulting in lower air conditioning energy costs
- Recessed, vertical-discharge, flush-mounted 18" fans with 1100 RPM motors reduce noise levels

Components

- Fixed high pressure switch
- Fixed low pressure switch on medium and high temperature compressor modules
- Adjustable low pressure switch on low temperatures modules
- Suction service ports on all modules
- Suction accumulator (CS & CF extended temperature compressors)
- Vertical receiver in 6" x 12" or 6" x 27" sizes
- Sealed type liquid line drier and suction filter
- Head pressure control valve
- Aluminum fin coils
- Crank case heater
- Sight glass

Options

- Beacon II Refrigeration System available
- Defrost timer (air or electric)
- Individual compressor circuit breakers or fuses
- Unit fused disconnect
- Copper finned coils
- Polyester coated fins
- Liquid line solenoid valve
- Adjustable low pressure switch on high and medium temperature compressors

For more information, please contact your local Sales Representative or Account Engineer.

Air Handlers

03 to 75 Tons



Product Description

Air Handler units are available in sizes 03 through 75 tons in multiple cabinet styles. This equipment is engineered and built to fit your unique project requirements. Whether it is cooling, heating, or ventilation, multiple coil types and accessories are available to meet specific application needs.

Certifications



Standard Features

Basic Cabinet

- Fan section and a coil section with double wall drain pan.
- Galvanized steel with 1" - 3/4 pound density mat faced fiberglass insulation.
- All fan sections have hinged and latched access doors.

Fan Section

- Motors mount inside of cabinet.
- All units have a single fan design (either forward curved or airfoil)
- Single, double width, double inlet fan wheels for quiet performance and low energy consumption
- Fans are statically and dynamically balanced in fan section before the unit leaves the factory
- Fan bearings are ball bearing type selected for 200,000 hour average life.

Coil Section

- A wide variety of coil types to meet the load requirements of conditioned spaces including water, direct expansion, heat reclaim and steam coils.

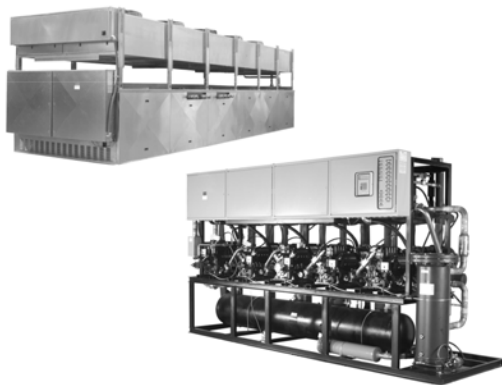
Accessories

- Electric Heaters and remote control panels
- A wide variety of filter sections: flat, high capacity, and high efficiency
- Economizer sections
- Internal or external face and bypass damper section

For more information, please contact your local Sales Representative or Account Engineer.

Refrigeration Racks

Up to 320 HP



Product Description

Providing a high level of design flexibility, racks are offered for indoor and outdoor applications with up to 8 parallel-piped compressors. This equipment is commonly used in cold storage applications. It is engineered and built to fit your unique project requirements and can be used with air-cooled, water-cooled or evaporative-cooled condensers.

Certifications

ETL-508a listed control panel

Standard Features

Cabinet

- Larger capacity in a compact footprint
- 3-8 compressors on one frame

Compressor

- Optimum compressor sizing to meet project requirements
- Compressor combination up to 320 HP

Performance & Service

- Single point wiring and piping
- Designed for optimum energy savings, faster installation and reduced maintenance costs
- Controls up to 3 suction groups
- Total project capacity requirements in one unit
- Microprocessor control
- Defrost function flexibility

Applications

- Food processing plants
- Blast cooling and freezing applications
- Food and beverage distribution facilities
- Hydrocoolers for produce cooling

For more information, please contact your local Sales Representative or Account Engineer.

Extended Service Agreements

General Information

Product Description

Today's commercial refrigeration equipment is high-tech. An equipment failure can result in tremendous expense, if it includes repairs, replacement parts, and labor expenses. Equipment owners can potentially save hundreds and even thousands of dollars with a Heatcraft Extended Service Agreement.*

*Limitations Apply. Subject to Service Net terms and conditions. Risk management is provided by Service Net.

Features and Benefits

Complete Peace of Mind

- Covered repair bills will be paid throughout the term of the agreement*
- Choose the type of coverage required with no deductible to worry about

Buy Tomorrow's Repair Costs at Today's Prices

- Due to outside influences, such as price increases and inflation, repair costs may not remain the same in the future. With an Extended Service Agreement from Heatcraft, equipment owners will have one less worry

Extend Our Manufacturer's Warranty

- Standard coverage is one-year parts. With Heatcraft's Extended Service Agreement, you can extend our manufacturer's warranty for up to five years on parts and labor

What's Covered?

- All Heatcraft evaporators, condensing units, and PRO3 Packaged Systems
- New equipment for up to 5 years. Heatcraft's Extended Service Agreements can be transferred to a new equipment owner for a nominal fee

For more information, please contact your local Sales Representative or Account Engineer.

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Quick Load Calculations

For Walk-in Coolers & Freezers

Applications Note

The Quick Calculations Table gives 'Typical' and 'Heavy' load estimates BASED on the conditions for each room temperature. Conditions include construction, loading, and room surroundings. IF your conditions are very DIFFERENT from the 'Typical' or 'Heavy' conditions, then figure a load estimate specifically for your job.

Here are three suggestions to get an accurate load estimate for your specific application:

1. Utilize the Heatcraft ProSelect™ software.
2. Contact your local Sales Representative for help.
3. Utilize the paper and pencil calculation in Heatcraft's Engineering Manual (H-ENGM0408).

Room Conditions for Loads Shown in the Quick Calculations Table

FOR 35°F LOAD CALCULATION

The calculation is for a product entering a room during a 24 hour period. The amount of entering 'hot' product (pounds) is twice the room volume (cu ft). The entering product temp is 40°F. The product temp is reduced to 35° in 24 hours. The specific heat of the product is 0.90 BTU per pound. The freezing temp of the product is 27°.

The insulation in the ceiling and walls is 4" of styrofoam. The ceiling temp is 115°, solar effect. The wall temperatures are 95°. The R value for the styrofoam is 16.7, the k factor is 0.24. The floor is 6" of concrete on grade. The floor temp is 55°. The R value of the concrete is 4.8, the k factor is 1.25.

Air enters through the door at 95° and 50% relative humidity. The door openings cause TWICE number of air changes listed in tables that estimate 'AVERAGE AIR CHANGES FOR STORAGE ROOMS'. Table 4, page 14, Heatcraft Engineering Manual (H-ENGM0408).

The motor load is charged at 1 HP per 16,000 CU FT of room volume. The lighting load is 1 watt per SQ FT of floor area. The 'people load' is figured at 1 person per 25,000 CU FT of room volume.

A 10% safety factor is added to the product, wall transmission, door infiltration, and miscellaneous loads above.

BTUH is based on SIXTEEN hour runtime. The BTU load for 24 hours is divided by 16 hours to yield the hourly heat load.

For 'Heavy Load' Conditions: People load is 1 person. Pounds of product is 3 times the rooms cubic feet.

Ten Foot box height load estimates: Add 15% to the loads listed for 8' height.

FOR 30°, 0°, -10°, -20°F. LOAD CALCULATIONS

The calculation is for a product entering a room during a 24 hour period. The amount of entering 'hot' product (pounds) EQUALS the room volume (cu ft). The entering product temp is 10°F warmer than the room temp. The product temp is reduced to the room temp in 24 hours. The specific heat of the product is 0.90 BTU per pound for the 30° room. The specific heat of the product is 0.45 BTU per pound for the 0°, -10°, and -20° rooms. The freezing temp of the product is 27°.

The insulation in the ceiling, walls, AND FLOOR is 4" of URETHANE. The ceiling temp is 115°, solar effect. The wall temperatures are 95°. The R value for the urethane is 25, the k factor is 0.16. The floor temp is 55°.

Air enters through the door at 95° and 50% relative humidity. The door openings cause TWICE number of air changes listed in tables that estimate 'AVERAGE AIR CHANGES FOR STORAGE ROOMS'. Table 5, page 14, Heatcraft Engineering Manual (H-ENGM0408).

The motor load is charged at 1 HP per 12,500 CU FT of room volume.

The lighting load is 1 watt per SQ FT of floor area. The 'people load' is figured at 1 person per 25,000 CU FT of room volume.

A 10% safety factor is added to the product, wall transmission, door infiltration, and miscellaneous loads above.

BTUH is based on a EIGHTEEN hour runtime. The BTU for 24 hours is divided by 18 hours to yield the hourly heat load.

Additional Tables For Special Rooms or Boxes & Conditions

Meat Cutting / Prep Room			-10° F to 0° F Reach-ins		35° F to 40° F Reach-ins		Reach-in Glass Door Loads	
Floor Square Feet	BTUH per sq. ft. of Floor Area		Room Volume CU FT	Approx BTUH	Room Volume CU FT	Approx BTUH	Room Temp.	BTUH per Door
	55° F	50° F						
100	93	105	4 - 10	1000	4 - 10	950-1150	+35° F	1060
200	88	99	11 - 18	1350	11 - 18	1100-1300	+30° F	960
300	85	95	19 - 35	1900	19 - 35	2100	0° F	1730
400	81	90	36 - 55	2900	36 - 55	2600	-10° F	1730
500	78	87	56 - 75	4200	56 - 75	3500	-20° F	1730
600	75	85	76 - 100	5500	76 - 100	5700	Glass door loads have been adjusted for run time load. Multiply number of doors by the door load listed and add to hourly heat load in the table of quick calculations.	
700	72	81	Based on a minimum 1-1/2 inch urethane foam insulated fixture, 18 hours per day compressor run time.		Based on a minimum 1 inch urethane foam insulated fixture, 16 hours per day compressor run time.			
800	69	78						
900	67	75						
1000	65	73						
1200	62	69						

Loads based on continuous operation and include allowances for avg. number of personnel, processing equipment, etc., with glass panel in one wall and walls and ceilings insulated with 3 inches of styrene, with box located in air conditioned area. Evaporator should be low outlet velocity type to avoid drafts and should be selected for continuous operation and not less than 30° F evaporator temperature.

Quick Load Calculations

For Walk-in Coolers & Freezers

Table of Quick Calculations in BTUH

Based on 95 F ambient. Add 15% to loads for 10' height.

Room Dimensions (in.)			Room Area (Sq FT)	Room Volume (CU FT)	+35°F Room		+30°F Room		0°F Room		-10°F Room		-20°F Room	
W	L	H			Typical Load (BTUH)	Heavy Load (BTUH)	Typical Load (BTUH)	Heavy Load (BTUH)	Typical Load (BTUH)	Heavy Load (BTUH)	Typical Load (BTUH)	Heavy Load (BTUH)	Typical Load (BTUH)	Heavy Load (BTUH)
6	6	8	36	288	4,986	6,540	3,483	5,190	4,522	6,570	4,859	7,070	5,187	7,570
6	8	8	48	384	5,884	7,470	4,095	5,910	5,296	7,390	5,692	7,960	6,076	8,510
6	10	8	60	480	6,729	8,350	4,668	6,590	6,020	8,170	6,573	10,890	6,908	9,390
8	8	8	64	512	6,939	8,570	4,812	6,760	6,193	8,360	6,654	8,990	7,104	9,610
8	10	8	80	640	7,934	9,600	5,485	7,580	7,032	9,270	7,555	9,960	8,066	10,640
8	12	8	96	768	8,887	10,590	6,126	8,360	7,830	10,140	8,413	10,890	8,982	11,620
8	14	8	112	896	9,808	11,550	6,744	9,120	8,597	10,980	9,239	11,790	9,865	12,580
8	16	8	128	1,024	10,626	12,410	7,343	9,860	9,341	11,790	10,039	12,660	10,720	13,500
8	18	8	144	1,152	11,581	13,410	7,927	10,580	10,065	12,580	10,818	13,510	11,553	14,410
8	20	8	160	1,280	12,588	14,310	9,078	11,740	11,402	13,800	12,225	14,780	13,031	15,730
8	22	8	176	1,408	13,434	15,190	9,639	12,440	12,097	14,570	12,973	15,600	13,830	16,600
8	24	8	192	1,536	14,267	16,060	10,192	13,130	12,779	15,320	13,708	16,400	14,617	17,460
8	26	8	208	1,664	15,585	17,420	10,736	13,820	13,451	16,060	14,432	17,200	15,392	18,310
8	28	8	224	1,792	16,398	18,270	11,273	14,490	14,115	16,800	15,146	17,980	16,156	19,140
8	30	8	240	1,920	17,203	19,120	11,804	15,170	14,770	17,520	15,851	18,760	16,912	19,970
8	32	8	256	2,048	18,001	19,960	12,330	15,830	15,417	18,240	16,549	19,520	17,659	20,780
10	10	8	100	800	9,072	10,790	6,252	8,520	7,980	10,310	8,573	11,070	9,152	11,810
10	12	8	120	960	10,164	11,930	6,984	9,430	8,883	11,300	9,543	12,130	10,187	12,940
10	14	8	140	1,120	11,221	13,040	7,691	10,310	9,752	12,250	10,477	13,150	11,185	14,020
10	16	8	160	1,280	12,398	14,120	8,956	11,610	11,224	13,630	12,028	14,580	12,815	15,520
10	18	8	180	1,440	13,406	15,170	9,626	12,460	12,045	14,530	12,911	15,550	13,758	16,550
10	20	8	200	1,600	14,890	16,710	10,282	13,290	12,849	15,430	13,775	16,500	14,682	17,560
10	24	8	240	1,920	16,823	18,740	11,560	14,920	14,413	17,170	15,457	18,360	16,480	19,530
10	28	8	280	2,240	18,709	20,720	12,804	16,520	15,931	18,860	17,090	20,170	18,227	21,460
12	12	8	144	1,152	11,391	13,220	7,805	10,460	9,887	12,410	10,621	13,310	11,338	14,190
12	14	8	168	1,344	12,728	14,470	9,177	11,910	11,483	13,920	12,305	14,890	13,108	15,850
12	16	8	192	1,536	13,887	15,680	9,948	12,890	12,423	14,970	13,314	16,010	14,185	17,030
12	18	8	216	1,728	15,518	17,370	10,700	13,850	13,338	15,990	14,297	17,100	15,236	18,180
12	20	8	240	1,920	16,633	18,550	11,438	14,800	14,235	16,990	15,260	18,160	16,246	19,300
12	22	8	264	2,112	17,732	19,710	12,164	15,740	15,115	17,970	16,206	19,220	17,274	20,430
14	14	8	196	1,568	14,046	15,850	10,054	13,030	12,547	15,110	13,446	16,160	14,326	17,190
14	16	8	224	1,792	15,828	17,700	10,907	14,130	13,580	16,260	14,554	17,390	15,509	18,490
14	20	8	280	2,240	18,329	20,340	12,560	16,270	14,587	17,520	16,696	19,780	17,795	21,030
14	24	8	336	2,688	20,756	22,910	14,597	18,800	15,574	18,750	19,202	22,530	20,441	23,920
16	16	8	256	2,048	17,240	19,200	11,842	15,340	14,704	17,530	15,761	18,740	16,795	19,920
16	20	8	320	2,560	19,987	22,100	14,093	18,160	17,318	20,420	18,533	21,790	20,124	23,530
16	24	8	384	3,072	22,656	24,930	15,846	20,480	19,416	22,800	20,786	24,320	22,129	25,820
18	18	8	324	2,592	20,132	22,260	14,189	18,290	17,429	20,550	18,652	21,930	19,850	23,270
18	20	8	360	2,880	21,615	23,830	15,164	19,580	18,592	21,870	19,900	23,330	21,182	24,760
18	24	8	432	3,456	25,018	27,410	17,071	22,120	20,863	24,460	22,336	26,090	23,781	27,680
20	20	8	400	3,200	23,713	26,030	16,216	20,990	19,842	23,300	21,240	24,850	22,611	26,370
20	24	8	480	3,840	27,005	29,370	18,854	24,190	22,911	26,530	24,503	28,260	26,066	29,950
20	28	8	560	4,480	30,084	32,650	22,108	28,150	25,289	29,260	27,054	31,160	28,788	33,030
20	32	8	640	5,120	33,608	36,370	23,277	30,020	28,058	32,380	29,993	34,450	31,894	36,490
20	36	8	720	5,760	36,595	39,550	25,219	32,670	30,347	35,020	32,449	37,260	34,516	39,460
20	40	8	800	6,400	40,190	43,200	27,714	35,730	33,231	38,070	35,515	40,470	37,762	42,840
40	24	8	960	7,680	45,633	49,040	31,681	41,100	37,745	43,290	40,316	45,980	42,487	48,270
40	28	8	1,120	8,960	51,628	55,280	35,721	46,410	42,361	48,420	45,232	51,390	48,059	54,320
40	32	8	1,280	10,240	57,408	61,460	39,570	51,670	46,722	53,490	49,870	56,730	52,973	59,940
40	36	8	1,440	11,520	63,278	67,580	43,516	56,880	51,218	58,500	54,656	62,020	58,047	65,490
40	40	8	1,600	12,800	68,954	73,650	47,289	62,060	55,479	63,460	59,186	67,250	62,848	71,000

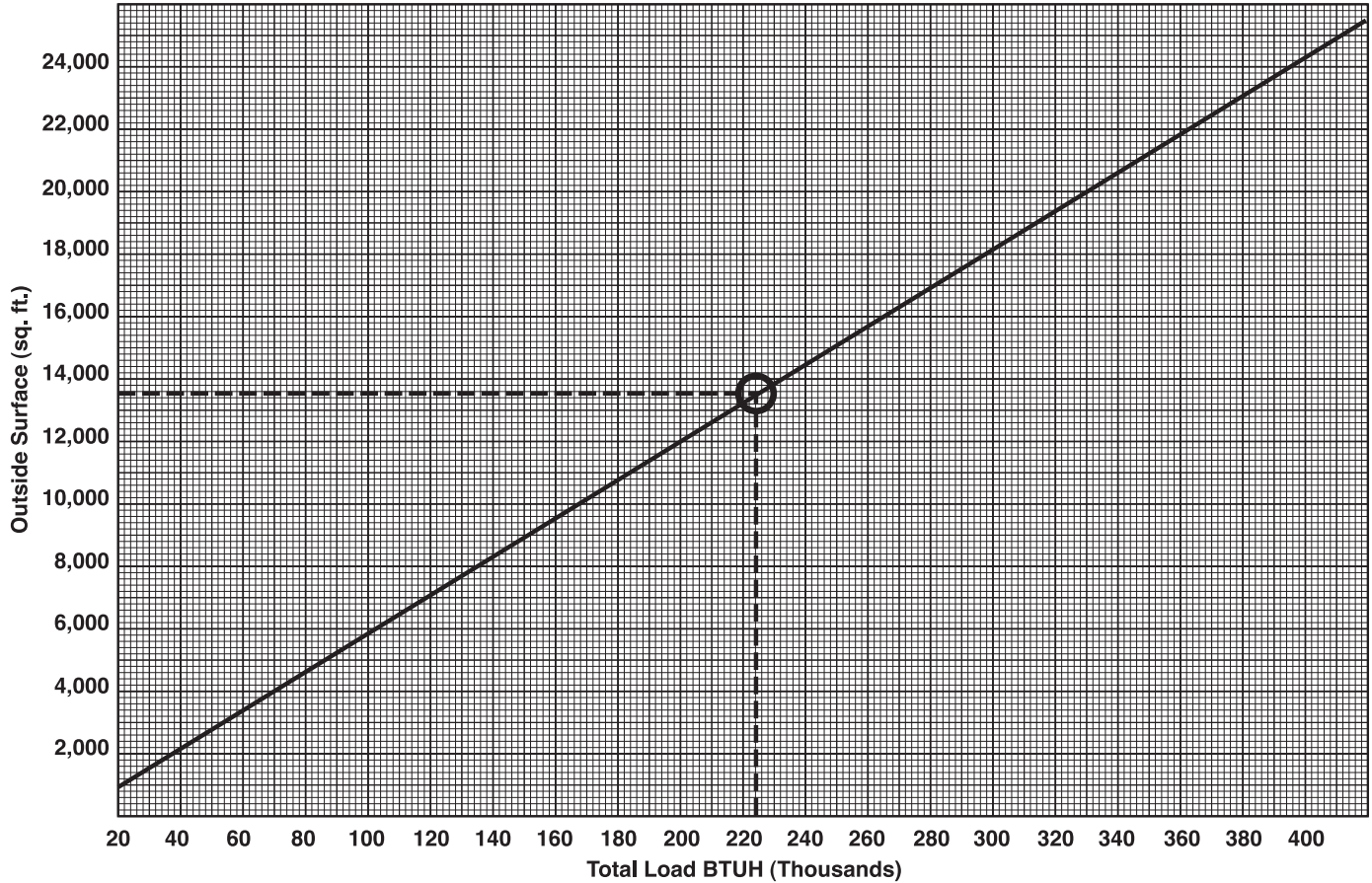
Rapid Load Calculator

For Large Coolers & Freezers

Design Conditions: 95° F ambient; heavy service; 16-hr. compressor running time; average number of lights, motors, and people; product load figured according to accompanying table; product traffic calculated at 30 degree temperature reduction for coolers, 10 degree temperature reduction for freezers.

NOTE: This calculator will work equally well for coolers and freezers, providing the room is insulated as indicated below:
 35° F cooler- 3" polystyrene or equivalent
 30° F cooler- 4" polystyrene or equivalent
 0° F cooler- 5" polystyrene or equivalent
 -10° F cooler- 5 1/2" polystyrene or equivalent
 -20° F cooler- 6" polystyrene or equivalent

Example: 100 x 40 x 20' zero °F. freezer. Outside surface totals 13,600 sq. ft. Find 13,600 sq. ft. outside surface line at left of graph. Follow it across to the straight line curve. Then drop down to total load line at bottom of graph. Total load for this example is 224,000 BTUH. Select equipment accordingly.



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Volume (Cu. Ft.)	Average Daily Product Loads (lbs.) for Coolers	Average Daily Product Loads (lbs.) for Freezers
500 - 3,000	6,200 - 8,000	1,600 - 2,000
3,000 - 4,600	8,000 - 11,000	2,000 - 2,500
4,600 - 8,100	11,000 - 17,000	2,500 - 4,000
8,100 - 12,800	17,000 - 26,000	4,000 - 6,200
12,800 - 16,000	26,000 - 33,000	6,200 - 7,500
16,000 - 20,000	33,000 - 40,000	7,500 - 9,500
20,000 - 28,000	40,000 - 56,000	9,500 - 13,000
28,000 - 40,000	56,000 - 66,000	13,000 - 17,000
40,000 - 60,000	66,000 - 110,000	17,000 - 25,000
60,000 - 80,000	110,000 - 150,000	25,000 - 34,000
80,000 - up	150,000 - up	34,000 - up

ProSelect™ Software

Box Load / Product Selection / Quotations



Product Description

Heatcraft's ProSelect™ Software is the industry's most flexible and powerful software package that helps with everything from box load calculation and equipment selection to quotation generation and submittal drawings. A rules-based, built-in product configurator saves time in selecting the products and options that best meet application requirements. Available in both a web-based version that is accessible 24/7 anywhere in the world with a standard web browser and a client-based version that can be loaded and run on your local computer.

Features and Benefits

Quick and Easy to Use

- Intuitive user interface with built-in help information
- Bypass the box load calculation and go straight to equipment selection if you know what you want
- Ability to set/change parameters and defaults
- Create a quotation library of templates

Multiple Versions Available to Meet Your Needs

- Web-based version is always up-to-date and accessible 24/7 anywhere in the world with a standard web browser
- Client-based version can be loaded and run on your local computer
 - Checks for software updates and downloads when connected to the internet

Correctly Size, Select, and Price Equipment & Options

- Calculate box loads based on job specific conditions
- Built-in product configurator selects products and options that best meet the application requirements

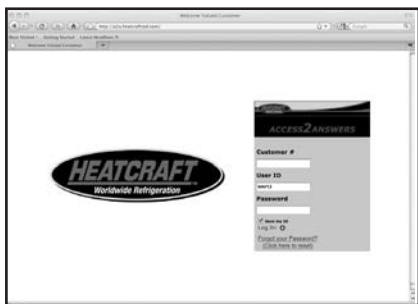
Create Professional Quotations and Submittal Packages

- Heatcraft customers can add their company logo and information to the quotation header
- Detailed submittal drawings created based on selected equipment and options
- Include Energy Savings and Payback Analysis for selected **E Solutions™** products and options

For more information, please contact your local Sales Representative or Account Engineer.

Access2Answers

Online Customer Support Portal



a2a.heatcraftprd.com

Product Description

Available exclusively to our customers, Access2Answers is an online portal that makes order tracking simple. With an internet connection and standard web browser, you will have 24/7 access to order information as well as the ability to view product availability. Also available is Web Warranty which allows you to easily submit all your warranty claims with a fast process. To obtain a personalized login and password for your company, please contact your Sales Representative or Account Engineer.

Features and Benefits

Access What You Need Whenever You Need It

- Check order status or product availability 24/7 with an internet connection and standard web browser

Check Product Availability

- See if the specific item you're looking for is in stock in one of our facilities. If it's not in stock, you will see the "next available date"
- The quantities available are updated in "real time" as orders are entered and as a result are subject to prior sale

Check Order Status

- Search by purchase order number, purchase order date range, customer name or number, sales order number, or serial number
- Search results shows all orders for your customer number

Obtain Shipping Details

- Provides valuable shipping information including item number, quantity shipped, date shipped, pro number, and carrier name & phone number
- Clicking on the pro number or carrier name will link you to the carrier's web site for further research

View Order Documents & Request a Pricing Adjustment

- View order documents including the order confirmation and the original invoice
- To request a pricing adjustment, simply complete the on-line form and click send. We'll look into the issue and contact you with a resolution

Glossary of Refrigeration Terms

Common Definitions

1. **Accumulator** - a shell placed in suction line for separating liquid refrigerant entrained in suction gas.
2. **Air Changes** - the amount of air leakage is sometimes computed by assuming a certain number of air changers per hour for each room, the number of changes assumed being dependent upon the type, use and location of the room.
3. **Air Cooler, Forced Circulation** - a factory-made encased assembly of elements by which heat is transferred from air to evaporating refrigerant.
4. **Ambient Air** - generally speaking, the air surrounding an object. In a domestic or commercial refrigerating system having an air-cooled condenser, the temperature of the air entering the condenser.
5. **Back Pressure** - loose terminology for suction pressure of refrigeration vapor in a system.
6. **British Thermal Unit (BTU)** - heat required to produce a temperature rise of 1 degree Fahrenheit in 1 lb. of water. The mean BTU is 1/180 of the energy required to heat water from 32°F. to 212°F.
7. **Change of Air** - introduction of new, cleansed or recirculated air to conditioned space, measured by the number of complete changes per unit time.
8. **Chill** - to apply refrigeration moderately, as to meats, without freezing.
9. **Chilling Room** - room where animal carcasses are cooled after dressing prior to cold storage.
10. **Comfort Air Conditioning** - the simultaneous control of all, or at least the first three, of the following factors affecting the physical and chemical conditions of the atmosphere within a structure for the purpose of human comfort; temperature, humidity, motion, distribution, dust, bacteria, odors, toxic gasses and ionization, most of which affect in greater or lesser degree human health or comfort.
11. **Comfort Cooling** - refrigeration for comfort as opposed to refrigeration for storage or manufacture.
12. **Defrosting Cycle** - a refrigeration cycle which permits cooling unit to defrost during off period.
13. **Dehumidification** - the conservation of water vapor from air by cooling below the dew point or removal of water vapor from air by chemical or physical methods.
14. **Dehydration** - the removal of water vapor from air by the use of absorbing materials. (2) The removal of water from stored goods.
15. **Dew Point** - temperature at which condensation starts if moist air is cooled at constant pressure with no loss or gain of moisture during the cooling process.
16. **Differential (of a control)** - the difference between cut-in and cut-out temperature or pressure.
17. **Dry Bulb Temperature** - temperature measured by ordinary thermometer (term used only to distinguish from wet-bulb temperature).
18. **Duct** - a conduit or tube used for conveying air or other gas.
19. **Evaporator** - the part of a system in which refrigerant liquid is vaporizing to produce refrigerant.
20. **External Equalizer** - in a thermostatic expansion valve, a tube connection from the chamber containing the evaporation pressure-actuated element of the valve to the outlet or the evaporator coil. A device to compensate for excessive pressure drop throughout the coil.
21. **Flash Gas** - the gas resulting from the instantaneous evaporation of refrigerant in a pressure-reducing device to cool the refrigerant to the evaporations temperature obtained at the reduces pressure.
22. **Flooded System** - system in which only part of the refrigerant passing over the heat transfer surface is evaporated, and the portion not evaporated is separated from the vapor and recirculated. In commercial systems, one controlled by a float valve.
23. **Frost Back** - the flooding of liquid from an evaporator into the suction line accompanied by frost formation in suction line in most cases.
24. **Head Pressure** - operating pressure measured in the discharge line at the outlet from the compressor.
25. **Heat Exchanger** - apparatus in which heat is exchanged from one fluid to another through a partition.
26. **Heat, Latent** - heat characterized by change of state of the substance concerned, for a given pressure and always at a constant temperature for a pure substance, i.e., heat of vaporization or fusion.
27. **High Side** - parts of refrigerating system under condenser pressure.
28. **Infiltration** - air flowing inward as through a wall, leak, etc.
29. **Liquid Line** - the tube or pipe carrying the refrigerant liquid from the condenser or receiver of a refrigerating system to a pressure-reducing device.
30. **Low Side** - parts of a refrigerating system under evaporator pressure.
31. **Pressure Drop** - loss in pressure, as from one end of a refrigerant line to the other, due to friction, etc.
32. **Refrigerating System** - a combination of inter-connected refrigerant-containing parts in which a refrigerant is circulated for the purpose of extracting heat.
33. **Respiration** - production of CO₂ and the heat by ripening of perishables in storage.
34. **Return Air** - air returned from conditioned or refrigerated space.
35. **Sensible Heat** - heat which is associated with a change in temperature; specific heat x change of temperature; in contrast to a heat interchange in which a change of state (latent heat) occurs.
36. **Specific Heat** - energy per unit of mass required to produce one degree rise in temperature, usually BTU per lb. degree F. numerically equal to cal. per gram degree C.
37. **Standard Air** - air weighing 0.075 lb. per cu. ft. which is closely air at 68°F. dry bulb and 50% relative humidity at barometric pressure of 29.92 in. of mercury of approximately dry air at 70°F. at the same pressure.
38. **Suction line** - the tube or pipe which carries the refrigerant vapor from the evaporator to the compressor inlet.
39. **Superheat** - temperature of vapor above its saturation temperature at that pressure.
40. **Temperature, Wet-Bulb** - equilibrium temperature of water evaporating into air when the latent heat of vaporization is supplied by the sensible heat of air.
41. **Thermal Valve** - a valve controlled by a thermally responsive element, for example, a thermostatic expansion valve which is usually responsive to suction or evaporator temperature.
42. **Throw** - the distance air will carry, measured along the axis of an air stream from the supply opening to the position, is the stream at which air motion reduces to 50 fpm.
43. **Ton of Refrigeration** - a rate of heat interchange of 12,000 BTU per hour; 200 BTU per min.
44. **Unit Cooler** - adapted from unit heater to cover any cooling element of condensed physical proportions and large surface generally equipped with fan.

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Standard Warranty:

Seller warrants to its direct purchasers that Products, including Service Parts, shall be of a merchantable quality, free of defects in material or workmanship, under normal use and service for a period of one (1) year from date of original equipment start-up, or eighteen (18) months from date of shipment by Seller, whichever first occurs. This warranty runs to only the original purchaser of equipment or part. Any Products covered by this warranty found to Seller's satisfaction to be defective upon examination at Seller's factory will at Seller's option, be repaired or replaced and returned to Buyer via lowest common carrier FOB sellers point of shipment. This is buyer's sole and exclusive remedy and, except as provided in the next sentence, seller's sole and exclusive liability in connection with the warranty. Or Seller may at its option grant Buyer a credit for the purchase price of the defective Product. Buyer must prepay all costs for transportation of Products to Seller's factory.

Seller shall have no liability for expenses incurred for repairs made by Buyer except by prior, written authorization. Any claim under this warranty shall be made to Seller in writing within the warranty period specified above – otherwise such claim shall be deemed waived. Seller shall have no warranty obligation whatsoever if its products have been subjected to alteration, misuse, negligence, free chemicals in system, corrosive atmosphere, accident, or if operation is contrary to Seller's or manufacturer's recommendations, or if the serial number has been altered, defaced, or removed.

THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED, IMPLIED OR STATUTORY, INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF MERCHANTABILITY OR FITNESS, AND ALL OTHER OBLIGATIONS OR LIABILITIES OF SELLER ARE HEREBY DISCLAIMED.

Additional Warranties:

The Standard Warranty specified above applies to all Products and Service Parts unless modified by the following:

THERMO-FLEX™ OR FLOATING TUBETM DESIGN COIL

Seller warrants the Thermo-Flex/Floating Tube Design Coil of the "BM", "BH", "CM", "CH", "HM", "HH", "MM", "ML" or "LH" series of Unit Coolers; coil section of the "BLV", "BDVS", "BBV", "JLD", "JDDS", "JBD", "BDT", "BDN", "BDS", "BDB", "BZT", "BZN", "BZS", "BZB", "CDD", "CDDS", "CDT", "CDN", "CDS", "CZT", "CZN", "CZS", "HDD", "HDDS", "HDT", "HDN", "HDS", "HZN", "HZN", "HZN", "LDV", "LDVS", "LDD", "LDDS", "LDT", "LDN", "LDS", "LZT", "LZN", "LZS" condensing units; and coil section of the "BN", "CN", "HN" or "LN" models of Air-cooled Condensers for a period of five (5) years from shipping date, in the event of any documented and verified (by Seller's representative) leaks in the coil tubes containing refrigerant at the point of and caused by tube contact with the end or center coil support sheets.

Seller will also reimburse the replacement cost of lost refrigerant for a period of five years from the date of shipment from leaks specifically caused by the reasons stated above. The replacement cost will be limited to one full system charge. The warranty specifically excludes leaks at header and weld joints, split tubes or leaks caused by failure to operate the product in accordance with published guidelines for operation and installation of equipment. The cost of replacement refrigerant will be limited to Seller's indexed nationwide average of refrigerant cost per pound. The warranty excludes any fines/fees related to refrigerant leaks.

Air-cooled CONDENSERS "BN", "CN", "HN", "LN" or "NRG" Models

Seller warrants Air-cooled Condensers "BN", "CN", "HN", "LN" or "NRG" Models for a period of two (2) years from date of original installation, or 30 months from the date of shipment by Seller, whichever first occurs.

Optional EC Condenser Fan Motors EC Motors

- Seven (7) Blade motor assemblies - for a period of four (4) years from date of original installation, or fifty-four (54) months from date of shipment by Seller, whichever first occurs.
- Five (5) Blade motor assemblies - for a period of three (3) years from date of original installation, or forty-two (42) months from date of shipment by Seller, whichever first occurs.

Unit Cooler EC Fan Motors

Seller warrants EC Motors (made by McMillan) for a period of two (2) years from date of original installation, or thirty (30) months from date of shipment by Seller, whichever first occurs.

Beacon II™ CONTROL SYSTEMS

Seller warrants the Beacon II™ Control System for a period of three (3) years from the date of original installation, or forty-two (42) months from the date of shipment by Seller, whichever first occurs.

PRO³ PACKAGED REFRIGERATION SYSTEM:

Seller warrants the PRO³ Packaged Refrigeration System for a period of two (2) years from date of original installation, or thirty (30) months from date of shipment by Seller, whichever first occurs.

HYPERCORE™ Microchannel Coil

Seller warrants the Hypercore™ Microchannel Condenser Coil for a period of two (2) years from date of original installation, or thirty (30) months from date of shipment by Seller, whichever first occurs.

SMART DEFROST KIT™

Seller warrants the Smart Defrost Kit™ for a period of two (2) years from date of original installation, or thirty (30) months from date of shipment by Seller, whichever first occurs.

MOTOR COMPRESSORS:

Motor compressor replacements or exchanges shall be made through the nearest authorized wholesaler of the motor compressor manufacturer (not at Seller's factory) and no freight shall be allowed for transportation of the motor compressor to and from the wholesaler. The replacement motor compressor shall be identical to the model of the motor compressor being replaced. Additional charges which may be incurred throughout the substitution of other than identical replacements are not covered by this warranty. An optional, non-assignable, three (3) or four (4) year extended compressor warranty may be purchased within the boundaries of the United States of America, its territories and possessions, and Canada. With this extended compressor warranty, replacements are administered by an authorized compressor distributor only. Replacements within the first year of the warranty are available through the distributor; the second through fifth years, the purchaser must submit a proof-of-purchase of a compressor and supply it to Heatcraft Warranty Claims for reimbursement.

THIS WARRANTY SHALL NOT APPLY:

1. Glass is not guaranteed against breakage. If this refrigerator is equipped with a glazing assembly carrying the manufacturer's brand name (Thermopane, Twindow, etc.), the manufacturer's glazing warranty in effect at the time of this shipment is extended to that assembly.
2. BULBS: Light bulbs, fluorescent lamp tubes and LEDs are not covered by any warranty for length of life or for any type of breakage.
3. To the condensing unit used with refrigerated equipment unless same was sold and shipped by Seller
4. When this equipment or any part thereof is damaged by accident, fire, flood, act of God, alteration, abuse, misuse, tampering, when the original model and serial number plate has been altered, defaced, or removed or used other than the recommended application by Seller.
5. When this equipment or any part thereof is subject to operation on low, high or improper voltages. Low and high voltage is defined as more than a 5% drop below or 10% higher than name plate voltage ratings. NOTE: Proper field supply voltage to the equipment is the responsibility of the owner (end user).
6. To damage caused by overloading shelves or wire racks beyond the specified weight limits. The maximum weight limit for Seller's standard shelves and wire racks is 30lbs per square foot.
7. When this equipment or any part thereof is damaged, or when operation is impaired, due to failure to follow installation manual. NOTE: Proper installation is the responsibility of the installer, owner (end user).
8. Operational issues caused by ambient environmental conditions outside of the specified limits. Seller's indoor equipment is specified to operate in a conditioned ambient environment not to exceed 75 degrees Fahrenheit or 55% relative humidity. NOTE: Providing specified ambient environmental conditions are the responsibility of the owner (end user).
9. To equipment with final destinations unknown to seller as indicated on the original sales order.
10. To labor cost for repair or replacement of parts.
11. To special or expedited freight or shipping charges or to customs duties to any country.
12. If the Warranty holder fails to comply with all the provisions, terms and conditions of this Warranty.

Parts replaced under this Warranty are warranted only through the remainder of the original Warranty.

Extended Service Agreements are provided by a third party not affiliated with Seller. The services provided by the third party are subject to the terms and conditions of the Extended Service Agreements and Seller is not responsible for those services or the third party's performance of its obligations.

IT IS EXPRESSLY UNDERSTOOD AND AGREED THAT SELLER SHALL NOT BE LIABLE TO BUYER, OR ANY CUSTOMER OF BUYER, FOR INDIRECT, SPECIAL, INCIDENTAL, CONSEQUENTIAL OR PUNITIVE DAMAGES, INCLUDING LOSS OF PROFITS, ADDITIONAL LABOR COSTS, LOSS OF REFRIGERANTS OR FOOD PRODUCT, OR ANY INJURY TO PERSON OR PROPERTY CAUSED BY DEFECTIVE MATERIAL OR PARTS OR FOR ANY DELAY OR MISPERFORMANCE IN THE PERFORMANCE DUE TO CAUSES BEYOND ITS CONTROL OR FOR ANY EXPENSES INCURRED BY REASON OF THE USE OR MISUSE BY BUYER OR THIRD PARTIES OF THE PRODUCTS. SELLER'S MAXIMUM LIABILITY FOR DIRECT DAMAGES IS LIMITED TO THE AMOUNT PAID BY THE BUYER FOR THE PARTICULAR ITEM OF EQUIPMENT OR PART INVOLVED.

NOTE: IN THE CONSTANT EFFORT TO IMPROVE OUR PRODUCTS, WE RESERVE THE RIGHT TO CHANGE AT ANY TIME SPECIFICATIONS, DESIGN, OR PRICES WITHOUT INCURRING OBLIGATION.

Q: What is Heatcraft Refrigeration's standard warranty?

A: All units sold by Heatcraft Refrigeration Products are covered under the standard catalog warranty. The basic terms of the standard catalog warranty is as follows: Products warranted for one year from date of original installation, or eighteen (18) months from date of original shipment, from Heatcraft Refrigeration Products, whichever occurs first.

Replacement parts used on equipment past warranty terms are warranted for 1 year from date of installation

View Catalog Products Warranty section for more detailed information

Q: How do I know if my Heatcraft Refrigeration unit is in warranty?

A: Contact Heatcraft Refrigeration Product's warranty department at (800) 537-7775 with the model and serial number of the equipment that was serviced along with the equipment's original installation date

Q: How do I submit a warranty claim?

A: Warranty claims should be submitted to the original purchaser of your Heatcraft Refrigeration Products equipment. If assistance is needed to identify the equipment's original purchaser you can contact Heatcraft Refrigeration Product's warranty department at (800) 537-7775 with the model and serial number of the equipment that was serviced.

Q: How do I get a warranty claim form?

A: Heatcraft Refrigeration Product currently does not have a warranty claim form. Instead, all warranty claims for Heatcraft equipment are processed through the original purchaser of the equipment serviced.

Q: How do I return material (defective/new and unused)?

A: The original purchaser must receive written permission from Heatcraft Refrigeration Products to return the product. Contact the Heatcraft Field Sales Representative or a Heatcraft Refrigeration Product's warranty representative at (800) 537-7775.

Q: Who do I contact to service my Heatcraft Refrigeration equipment?

A: Heatcraft Refrigeration Products does not have authorized service contractors. A qualified refrigeration service contractor of your choice is permitted to service Heatcraft equipment as needed. All service contractors should contact Heatcraft Refrigeration Products warranty department to confirm warranty status prior to beginning any service related work

Q: How do I get an "in-warranty" replacement part?

A: You can contact Interlink Parts for in-warranty replacements using one of the following:
By phone at (800) 686-7278 between the hours of 7:30 AM to 4:30 PM Central Time or by email at interlinkparts@heatcraftprd.com

Q: How do I locate an authorized Heatcraft Refrigeration wholesaler?

A: You can locate authorized Heatcraft Refrigeration Products parts wholesalers in your area by using one of the following:
By contacting a Heatcraft Refrigeration Products Customer Service Representative at (800) 537-7775 between the hours of 8:00 AM to 5:30 PM Eastern Time or by clicking one of the various wholesaler links found on Heatcraft Refrigeration Products Warranty Webpage

Q: How can I check the status of a warranty claim once submitted?

A: You can contact Heatcraft Refrigeration Product's warranty department at (800) 537-7775. Make sure to have your Heatcraft equipment serial number handy for reference purposes.



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