



LIST PRICE BOOK
DECEMBER 2021
SUPERSEDES ALL EARLIER VERSIONS
KLP-1221B

Prices effective 12/6/21

All products, except surface coils and parts, are shipped F.O.B. point of shipment with full freight allowed on single orders with a net price value of \$10,000 or more, within the continental USA (excluding Alaska and Hawaii). Buyer will bear all additional costs for special routing or handling requests.

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EQUIPMENT ORDERS - 1-800-288-9488 or equipment@htpg.com
PARTS - 1-855-HTPARTS (1-855-487-2787) or parts@htpg.com
VISIT US ON THE WEB AT <http://kramer.htpg.com>

Reach-In Nomenclature:

SL	A	1	5	9	RP	A	S
Product Line	Defrost Type	Fan QTY	Fin Spacing	Capacity	Coil Coating	Voltage	Motor Type
SL - Slim Temp WE - Wedge Temp FT - Flex Temp MUF - Mullion-Temp (Upflow) MDF - Mullion-Temp (Downflow) TT - T-Temp TW - Twin-Temp MTW - Mini Twin-Temp WA - Wall-Temp	Blank or A - Air Defrost E - Electric Defrost			# x 100 = BTUH	Blank - No Coating RP - Russ-Proof Coil Coating	A - 115/1/60 D - 230/1/60	E - EC P - PSC S - Shaded-Pole

Not all combinations of nomenclature are available. For specific offering consult individual Reach-In Unit Cooler sections of this document.

Slim-Temp Unit Coolers

The "SLA" product line offers 7 air defrost models. Typical installations include; glass display and solid door upright coolers, walk-ins, salad cases, back bars and other tight spaced enclosures operating above +34°F

The "SLE" product line offers eight electric defrost models. Typical installations include; glass display and solid door uprights, walk-ins, salad cases, back bars and other tight spaced enclosures requiring electric defrost.



Slim-Temp - Air Defrost - Cooler Application

Standard Coil			Coated Coil (Russ-Proof)			Dimensions (in)			Approx. Ship Weight (lbs)
Model Number	Shaded Pole Motor		Model Number	Shaded Pole Motor					
	115V	230V		115V	230V	Height	Length	Depth	
SLA 17-10	1,002	1,046	SLA 17-10RP	1,102	1,158	4-3/4	16-1/2	13-1/2	15
SLA 17-13	1,286	1,385	SLA 17-13RP	1,386	1,484	4-3/4	20-1/2	13-1/2	18
SLA 27-17	1,510	1,621	SLA 27-17RP	1,583	1,693	4-3/4	24	14-1/2	22
SLA 27-23	1,884	1,969	SLA 27-23RP	2,020	2,110	4-3/4	31-1/2	14-1/2	29
SLA 37-30	2,303	2,495	SLA 37-30RP	2,490	2,662	4-3/4	40	14-1/2	37
SLA 47-40	3,139	3,388	SLA 47-40RP	3,347	3,580	4-3/4	53-1/2	14-1/2	45
SLA 57-50	4,059	4,332	SLA 57-50RP	4,307	4,571	6-3/4	53-1/2	14-1/2	61

Specify voltage when ordering. A for 115V and D for 230V.

No EC or PSC Motors on SLA Models.

Slim-Temp - Electric Defrost - Freezer Application

Model Number	Single Speed EC Motor		Shaded Pole Motor		Dimensions (in)			Approx. Ship Weight (lbs)
	115V	230V	115V	230V	Height	Length	Depth	
SLE 15-9	—	—	1,653	1,653	4-3/4	16-1/2	13-1/2	16
SLE 15-12	—	—	1,986	1,986	4-3/4	20-1/2	13-1/2	19
SLE 25-16	—	—	2,479	2,479	4-3/4	24	14-1/2	23
SLE 25-21	4,565	4,565	2,802	2,802	6-3/4	24	15-1/2	31
SLE 25-28	5,169	5,169	3,462	3,462	6-3/4	31-1/2	15-1/2	39
SLE 35-36	6,487	6,487	3,897	3,897	6-3/4	38-1/2	15-1/2	48
SLE 45-54	8,818	8,818	5,397	5,397	6-3/4	48-1/4	16-1/2	70
SLE 35-70	—	9,471	—	6,801	6-3/4	76-1/2	20-1/2	105

Specify voltage & motor when ordering. A for 115V & D for 230V and E for EC Motor & S for Shaded Pole.

\$67 List Adder for 3-prong Electrical Connector

"—" = Not Available

REACH-IN UNIT COOLERS

KRAMER

Wedge-Temp Unit Coolers

Wedge-Temp Reach-ins are Air Defrost for reach-ins, back-bars, beverage cases, salad cases and other applications above 34° F.

Heavy-gauge, all Aluminum housing; front panel and drain-pan assembly hinged to provide easy access. These air defrost units are available with our specially formulated epoxy coil coating.



Wedge-Temp - Air Defrost - Cooler Application

Standard Coil					Coated Coil (Russ-Proof)					Dimensions (in)			App. Ship Weight (lbs)
Model Number	Single Speed EC Motor		Shaded Pole Motor		Model Number	Single Speed EC Motor		Shaded Pole Motor					
	115V	230V	115V	230V		115V	230V	115V	230V				
WE17-12	2,031	2,055	1,207	1,231	WE17-12RP	2,109	2,174	1,292	1,358	8-5/16	15-1/4	15-7/8	16
WE17-15	2,045	2,055	1,234	1,279	WE17-15RP	2,171	2,239	1,348	1,413	8-5/16	15-1/4	15-7/8	19
WE17-18	2,080	2,090	1,275	1,338	WE17-18RP	2,198	2,292	1,380	1,472	8-5/16	17-3/4	15-7/8	22
WE17-25	2,317	2,145	1,491	1,555	WE17-25RP	2,415	2,525	1,583	1,694	8-5/16	19-7/8	16-7/8	29
WE17-35	2,635	2,380	1,838	2,055	WE17-35RP	3,006	3,135	2,179	2,311	9-1/2	22-7/8	17-7/8	36
WE17-45	3,104	2,849	2,313	2,462	WE17-45RP	3,630	3,869	2,808	3,048	9-5/8	26-3/4	20-1/2	57
WE18-55	3,949	3,253	3,107	3,262	WE18-55RP	4,387	4,542	3,546	3,701	9-5/8	26-3/4	20-1/2	65

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "E" for EC Motor & "S" for Shaded Pole.

See page 2 for Nomenclature.

\$67 List Adder for 3-prong Electrical Connector

Flex-Temp Unit Coolers

The Flex-Temp reach-in coil is designed to meet a number of application needs. Its triangular geometry allows for installation in areas with limited available space.

Flex-Temp is well suited for under-counter refrigerators, reach-in back bars and other similar enclosures.



Flex-Temp - Air Defrost - Cooler Application

Standard Coil					Coated Coil (Russ-Proof)					Dimensions (in)			App. Ship Weight (lbs)
Model Number	Single Speed EC Motor		Shaded Pole Motor		Model Number	Single Speed EC Motor		Shaded Pole Motor					
	115V	230V	115V	230V		115V	230V	115V	230V	Height	Length	Depth	
FT18-6	N/A	N/A	992	1,027	FT18-6RP	N/A	N/A	1,038	1,062	6-3/4	12-1/2	9	9
FT18-8	N/A	N/A	1,076	1,111	FT18-8RP	N/A	N/A	1,118	1,144	6-3/4	12-1/2	9	9
FT28-12	N/A	N/A	1,224	1,334	FT28-12RP	N/A	N/A	1,356	1,490	7-3/4	18	9	14
FT18-17	2,289	2,411	1,396	1,516	FT18-17RP	2,430	2,552	1,552	1,684	9-5/8	14	10-1/2	15
FT18-23	3,166	3,332	2,244	2,411	FT18-23RP	3,354	3,519	2,403	2,535	11-5/8	16-3/4	13	20
FT18-31	3,499	3,690	2,574	2,769	FT18-31RP	3,706	3,915	2,785	2,985	11-5/8	16-3/4	13	23

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "E" for EC Motor & "S" for Shaded Pole.

See page 2 for Nomenclature.

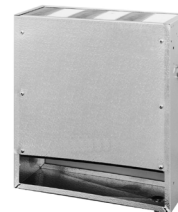
Units are supplied with 3-prong Electrical Connector

Mullion-Temp Unit Coolers

The Mullion-Temp is designed to fit behind the mullion located between under counter or reach-in doors.

Mullion-Temp models are available for two airflow patterns.

- "MDF" models supply a downward flow of air, ideal for beverage coolers.
- "MUF" models provide upward air flow, directing cold air towards drop in food trays.



Mullion-Temp - Air Defrost - Cooler Application - Downward Airflow



Standard Coil			Coated Coil (Russ-Proof)			Dimensions (in)			Approx. Ship Weight (lbs)
Model Number	Shaded Pole Motor		Model Number	Shaded Pole Motor					
	115V	230V		115V	230V	Height	Length	Depth	
MDF 27-13	1,849	1,946	MDF 27-13RP	1,883	2,014	17-1/8	15-5/8	5-5/8	20
MDF 27-17	2,210	2,279	MDF 27-17RP	2,257	2,389	17-1/8	15-5/8	5-5/8	22
MDF 37-23	2,642	2,825	MDF 37-23RP	2,686	2,884	17-1/8	22	5-5/8	30

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "S" for Shaded Pole. See page 2 for Nomenclature. Units are supplied with 3-prong Electrical Connector

Mullion-Temp - Air Defrost - Cooler Application - Upward Airflow

Standard Coil			Coated Coil (Russ-Proof)			Dimensions (in)			Approx. Ship Weight (lbs)
Model Number	Shaded Pole Motor		Model Number	Shaded Pole Motor					
	115V	230V		115V	230V	Height	Length	Depth	
MUF 27-13	1,849	1,946	MUF 27-13RP	1,883	2,014	17-1/8	15-5/8	5-5/8	20
MUF 27-17	2,210	2,279	MUF 27-17RP	2,257	2,389	17-1/8	15-5/8	5-5/8	22
MUF 37-23	2,642	2,825	MUF 37-23RP	2,686	2,884	17-1/8	22	5-5/8	30

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "S" for Shaded Pole. See page 2 for Nomenclature. Units are supplied with 3-prong Electrical Connector

T-Temp Unit Coolers

The T-Temp model unit cooler is built to mount from the ceiling or wall wherever a compact unit cooler is required.

The versatile T-Temp is designed for use in under counter refrigerators, back bars, reach-ins and other applications.



T-Temp - Air Defrost - Cooler Application

Standard Coil			Coated Coil (Russ-Proof)			Dimensions (in)			Approx. Ship Weight (lbs)
Model Number	Shaded Pole Motor		Model Number	Shaded Pole Motor					
	115V	230V		115V	230V	Height	Length	Depth	
TT18-8	836	902	TT18-8RP	951	1,015	7-1/4	13-3/4	7-1/2	10
TT28-13	1,147	1,225	TT28-13RP	1,220	1,309	7-1/4	19-1/4	7-1/2	15
TT28-17	1,278	1,366	TT28-17RP	1,364	1,465	7-1/4	19-1/4	8-1/2	16

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "S" for Shaded Pole. See page 2 for Nomenclature.

REACH-IN UNIT COOLERS

KRAMER

Twin-Temp Unit Coolers

The Twin-Temp 2-way Unit Cooler is ideal for reach-in and walk-in applications above 34°F where efficient two-way air discharge is required.

These units are designed for easy installation, low maintenance and long life, especially when our uniquely formulated epoxy coating is applied to the coil.



Twin-Temp - Air Defrost - Cooler Application

Standard Coil					Coated Coil (Russ-Proof)					Dimensions (in)			App. Ship Weight (lbs)
Model Number	Single Speed EC Motor		Shaded Pole Motor		Model Number	Single Speed EC Motor		Shaded Pole Motor					
	115V	230V	115V	230V		115V	230V	115V	230V	Height	Length	Depth	
TW17-9	1,819	1,883	993	1,059	TW17-9RP	1,981	2,045	1,164	1,230	7-5/8	19	16-1/2	17
TW17-12	2,110	1,883	1,286	1,381	TW17-12RP	2,214	2,317	1,397	1,499	7-5/8	19	16-1/2	19
TW17-18	2,278	2,204	1,477	1,583	TW17-18RP	2,549	2,647	1,740	1,841	9-1/8	19	16-1/2	23
TW17-25	2,611	2,385	1,809	1,923	TW17-25RP	2,969	3,090	2,158	2,278	9-5/8	21	18-1/2	26
TW17-35	3,145	2,723	2,348	2,476	TW17-35RP	3,551	3,686	2,752	2,886	11-1/4	11	18-1/2	28
TW17-45	3,798	3,278	2,986	3,203	TW17-45RP	4,281	4,496	3,467	3,680	10	32	21-1/2	44
TW17-55	4,550	4,013	3,762	3,946	TW17-55RP	5,096	5,288	4,290	4,479	12	32	21-1/2	50
TW18-65	5,355	4,736	4,512	4,512	TW18-65RP	5,672	5,672	4,831	4,831	12	32	21-1/2	55
TW17-75	5,149	5,149	4,666	4,666	TW17-75RP	—	—	4,996	4,996	11	36-1/2	36	109
TW18-85	—	—	5,421	5,421	TW18-85RP	—	—	5,799	5,799	11	36-1/2	36	115
TW17-105	—	—	6,207	6,207	TW17-105RP	—	—	6,642	6,642	13	36-1/2	36	121
TW18-120	—	—	6,920	6,920	TW18-120RP	—	—	7,124	7,410	13	36-1/2	36	128

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "E" for EC Motor & "S" for Shaded Pole.

See page 2 for Nomenclature.

"—" = Not Available

Mini Twin-Temp Unit Coolers

The MTW reach-in unit cooler is designed for use in hard to fit places. It's extremely low height allows for installation in areas with limited available space.

The MTW is well suited for under-counter refrigerators, reach-in back bars and other similar enclosures. Our specially formulated protective coil coating is optionally available for all MTW unit coolers



Mini Twin-Temp - Air Defrost - Cooler Application

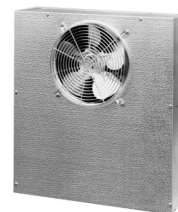
Standard Coil			Coated Coil (Russ-Proof)			Dimensions (in)			Approx. Ship Weight (lbs)
Model Number	Shaded Pole Motor		Model Number	Shaded Pole Motor					
	115V	230V		115V	230V	Height	Length	Depth	
MTW18-8	977	977	MTW18-8RP	1,084	1,084	3-1/4	14-1/4	13	14
MTW28-13	1,289	1,289	MTW28-13RP	1,431	1,431	3-1/4	19-1/4	13	15
MTW28-18	1,468	1,468	MTW28-18RP	1,629	1,629	3-1/4	19-1/4	13	18
MTW28-21	1,644	1,643	MTW28-21RP	1,825	1,824	3-1/4	19-1/4	13	20
MTW38-27	1,831	1,832	MTW38-27RP	2,032	2,034	3-1/4	28-1/2	13	23

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "S" for Shaded Pole. See page 2 for Nomenclature.

Wall-Temp Unit Coolers

The Wall-Temp panel cooler is designed for use in beverage boxes, reach-ins and other installations where limited space requires a wall-mounted coil of minimum depth. Housing construction is all Aluminum.

The front panel is detachable for quick, easy access to valve, motor and mounting to the wall through back panel.



Wall-Temp - Air Defrost - Cooler Application

Model Number	Standard Coil		Coated Coil (Russ-Proof)			Drain Pan List Price Adder	Dimensions (in)			Approx. Ship Weight (lbs)
	Single Speed EC Motor	Shaded Pole Motor	Model Number	Single Speed EC Motor	Shaded Pole Motor		Height	Length	Depth	
	115V	115V		115V	115V					
WA17-6	2,666	1,699	WA17-6RP	2,796	1,830	165	20-7/8	12	4-3/8	11
WA17-9	3,127	2,161	WA17-9RP	3,258	2,289	165	20-7/8	12	4-3/8	14
WA17-12	3,887	2,818	WA17-12RP	4,016	3,048	165	22-7/8	18	4-3/4	20
WA17-18	4,020	3,040	WA17-18RP	4,148	3,180	165	22-7/8	18	4-3/4	24
WA17-25	4,148	3,185	WA17-25RP	4,287	3,318	194	29	18	8-1/2	28
WA17-35	4,431	3,511	WA17-35RP	4,571	3,602	194	29	18	8-1/2	29
WA17-45	—	3,982	WA17-45RP	—	4,074	194	32-1/8	18	10-1/2	40

Specify voltage & motor when ordering. "A" for 115V & "D" for 230V and "E" for EC Motor & "S" for Shaded Pole.

See page 2 for Nomenclature.

\$67 List Adder for 3-prong Electrical Connector

"—" = Not Available

WALK-IN UNIT COOLERS

KRAMER

ASL Slim-Temp Unit Coolers

The award-winning Slim-Temp ASLA/ASLE Unit Coolers are compact and versatile models specifically designed for cooling small walk-in coolers and freezers, and display cases. Units feature smaller diameter tubing that reduces total refrigerant charge, energy-efficient EC motors that are IP67 rated to protect against dust, sand and water, and added features to make the units easier to install and service. The slim profile takes up less room and maximizes available shelf space. Models meet DOE AWEF performance and California Title 24 regulations. Units are available with air or electric defrost, for low or medium temperature applications and are solidly built with heavy gauge aluminum housings.



ASL Unit Cooler Nomenclature:

ASL	A	2	5	048	A	D	A	
Product Line	Defrost Type	Fan QTY	Fin Spacing	Capacity	Voltage	Motor Type	Vintage	Coil Coating
	A - Air Defrost E - Electric Defrost			# x 100 = BTUH	A - 115/1/60 D - 230/1/60	D - Dual Speed EC		Blank - None RP - Russ-Proof

ASL Unit Cooler - Air Defrost

Standard Coil				Coated Coil (Russ-Proof)				Approx. Ship Weight (lbs)
115/1/60		230-230/1/60		115/1/60		230-230/1/60		
Model Number	List Price (\$US)	Model Numer	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
ASLA25048ADA	4,277	ASLA25048DDA	4,277	ASLA25048ADARP	5,722	ASLA25048DDARP	5,722	83
ASLA25061ADA	4,402	ASLA25061DDA	4,402	ASLA25061ADARP	5,808	ASLA25061DDARP	5,808	105
ASLA35073ADA	4,720	ASLA35073DDA	4,720	ASLA35073ADARP	6,254	ASLA35073DDARP	6,254	125
ASLA45098ADA	5,669	ASLA45098DDA	5,669	ASLA45098ADARP	7,124	ASLA45098DDARP	7,124	151
ASLA55122ADA	6,646	ASLA55122DDA	6,646	ASLA55122ADARP	8,109	ASLA55122DDARP	8,109	185
ASLA65158ADA	7,553	ASLA65158DDA	7,553	ASLA65158ADARP	9,122	ASLA65158DDARP	9,122	222

ASL Unit Cooler - Electric Defrost

Standard Coil		Approx. Ship Weight
230-230/1/60		
Model Numer	List Price (\$US)	
ASLE25046DDA	5,079	83
ASLE25058DDA	5,314	105
ASLE35070DDA	5,712	125
ASLE45094DDA	6,852	151
ASLE55117DDA	7,976	185
ASLE65150DDA	9,045	222

ASL Unit Cooler - Factory Mounted Options

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	538
Liquid Line Solenoid Value (LLSV)	433
Mechanical Thermostat	440

ASL Unit Cooler - Shipped-Loose Options

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	485
Liquid Line Solenoid Value (LLSV)	410
Mechanical Thermostat	414

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen All-Temp Unit Coolers

All-Temps were the original low profile unit coolers with the air draw-through design that established the industry standard as being the all-purpose model for walk-in coolers, freezers and other applications. We've taken these unit coolers to the next level with the release of the Next-Gen All-Temp models. Next-Gen All-Temps were engineered to meet performance regulations. The units feature a new fan guard design and deep draw venturi to achieve optimal airflow and easy access for serviceability. These models can be used with multiple refrigerants, and are available in air, electric and hot gas defrost configurations.



STANDARD FEATURES

- Textured aluminum construction
- All units are provided with sweat refrigerant connections
- All units suitable for use with R404A, R407A, R407C, R407F, R448A, R449A/B
- Flush ceiling mount with slotted hangers and hinged access end panels
- Face mounted heaters and fixed defrost termination, fan delay and heater safety controls
- Dual Speed EC motors are compliant with California Title 24 regulations for single compressor systems



Next-Gen All-Temp Nomenclature:

CONFIGURABLE BASE MODEL								PRE-CONFIGURATION CODES ²	
K	L	6	E	042	D	D	A	A	L
Brand	Connections ¹	Fins Per Inch	Defrost Type	BTUH in Hundreds	Unit Voltage	Motor Type	Revision	Refrigerant	Pre-assembly Code
K = Kramer	L = Standard U = Reverse	6 FPI 4 FPI	A = Air E = Electric H = Hot Gas 3-Pipe G = Hot Gas Reverse Cycle		A = 115/1/60 D = 208-230/1/60 E = 208-230/3/60	D - Dual Speed EC		A = R404A R = EcoNet Approved Refrigerants ³ S = R407A, R448A, R449A/B	E = EcoNet Control Package ⁴ L = Mounted TXV, LLSV & Mechanical Thermostat ⁵

Note(s):

1. Refrigerant and electrical connection locations have been changed for the Next-Gen All-Temp design. Standard connections "L" are now opposite of the legacy All-Temp models. Mirror connections "U" are the same end as legacy All-Temp models and are available only as built-to-order base units with no installed options.
2. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables in the Russell List Price or contact your local Russell sales representative.
3. EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B, R507A.
4. EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local on-board two-row LCD display and push-button adjustments. (EcoNet replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)
5. EcoNet Control Package is not available in 50 Hz.
6. Models with Pre-configured Mechanical Components (TXV, LLSV and Thermostat) are rated for +25°FSS/10°FDT (Air Defrost) and -20°FSS/10°FDT (Electric Defrost).
7. CO₂ and Glycol Next-Gen All-Temp Unit Coolers available. If required, please contact factory.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Air Defrost Configurable Base Models

Number of Fans	Dual Speed EC Motors - 6 FPI				Approx. Ship Weight (lbs)
	115/1/60		230-230/1/60		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6A041ADA	2,460	KL6A041DDA	2,460	41
	KL6A052ADA	2,525	KL6A052DDA	2,525	44
	KL6A066ADA	2,930	KL6A066DDA	2,930	47
2	KL6A073ADA	3,830	KL6A073DDA	3,830	52
	KL6A094ADA	4,338	KL6A094DDA	4,338	55
	KL6A117ADA	4,557	KL6A117DDA	4,557	58
	KL6A130ADA	4,866	KL6A130DDA	4,866	62
3	KL6A141ADA	5,887	KL6A141DDA	5,887	72
	KL6A161ADA	6,538	KL6A161DDA	6,538	78
	KL6A181ADA	7,125	KL6A181DDA	7,125	85
4	KL6A195ADA	7,676	KL6A195DDA	7,676	115
	KL6A235ADA	9,310	KL6A235DDA	9,310	124
	KL6A260ADA	10,144	KL6A260DDA	10,144	147
5	KL6A295ADA	11,634	KL6A295DDA	11,634	218
6	KL6A330ADA	12,486	KL6A330DDA	12,486	257
	KL6A390ADA	14,019	KL6A390DDA	14,019	262

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
2. Reverse Connections (U) are available at No Charge. Reverse Connection models cannot be ordered with any factory mounted options.

Air Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	EcoNet Control Package	KE2 Evaporator Defrost Control ⁴	LLSV ⁵	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	538	1,920	2,470	5,401	433	440	551	776
2	538	1,920	2,470	5,401	433	440	551	981
3	538	1,920	2,470	5,401	433	440	551	1,190
4	538	1,920	2,470	5,401	433	440	551	1,368
5	538	1,920	2,470	5,401	502	440	551	1,562
6	946	1,920	2,470	5,401	502	440	551	1,776

1. Shipped-Loose Accessories are found on Page 19
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. KE2 Evaporator Defrost Control requires a Liquid Line Solenoid Valve (LLSV).
6. LLS voltage must match the voltage applied to the motor.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen All-Temp Unit Coolers

Air Defrost Pre-Configured¹ Models

Number of Fans	Dual Speed EC Motors - 6 FPI - 115/1/60						Approx. Ship Weight (lbs)
	EcoNet Control Package ^{2,3}		Mounted Components (404) ⁴		Mounted Components (High-Glide) ⁴		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6A041ADARE	4,930	KL6A041ADAAL	3,871	KL6A041ADASL	3,871	41
	KL6A052ADARE	4,995	KL6A052ADAAL	3,936	KL6A052ADASL	3,936	44
	KL6A066ADARE	5,400	KL6A066ADAAL	4,341	KL6A066ADASL	4,341	47
2	KL6A073ADARE	6,300	KL6A073ADAAL	5,241	KL6A073ADASL	5,241	52
	KL6A094ADARE	6,808	KL6A094ADAAL	5,749	KL6A094ADASL	5,749	55
	KL6A117ADARE	7,027	KL6A117ADAAL	5,968	KL6A117ADASL	5,968	58
	KL6A130ADARE	7,336	KL6A130ADAAL	6,277	KL6A130ADASL	6,277	62
3	KL6A141ADARE	8,357	KL6A141ADAAL	7,298	KL6A141ADASL	7,298	72
	KL6A161ADARE	9,008	KL6A161ADAAL	7,949	KL6A161ADASL	7,949	78
	KL6A181ADARE	9,595	KL6A181ADAAL	8,536	KL6A181ADASL	8,536	85
4	KL6A195ADARE	10,146	KL6A195ADAAL	9,087	KL6A195ADASL	9,087	115
	KL6A235ADARE	11,780	KL6A235ADAAL	10,721	KL6A235ADASL	10,721	124
	KL6A260ADARE	12,614	KL6A260ADAAL	11,555	KL6A260ADASL	11,555	147
5	KL6A295ADARE	14,104	KL6A295ADAAL	13,114	KL6A295ADASL	13,114	218
6	KL6A330ADARE	14,956	KL6A330ADAAL	14,374	KL6A330ADASL	14,374	257
	KL6A390ADARE	16,489	KL6A390ADAAL	15,907	KL6A390ADASL	15,907	262

1. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables in the Russell List Price or contact your local Russell sales representative.
2. EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B, R507A
3. EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local on-board two-row LCD display and push-button adjustments. (EcoNet replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)
4. EcoNet Control Package is not available in 50 Hz.
5. Models with Pre-configured Mechanical Components (TXV, LLSV and Thermostat) are rated for +25°FSSST/10°FDT (Air Defrost) and -20°FSSST/10°FDT (Electric Defrost).

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Air Defrost Base Models - Discontinued Models

Please note, the below models were discontinued in anticipation for the July 10th, 2020 DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability

Number of Fans	Single Speed EC Motors - 6 FPI				PSC Motors - 6 FPI				Approx. Ship Weight (lbs)
	115/1/60		230-230/1/60		115/1/60		230-230/1/60		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6A041AEA	2,216	KL6A041DEA	2,216	KL6A041APA	1,753	KL6A041DPA	1,821	41
	KL6A052AEA	2,275	KL6A052DEA	2,275	KL6A052APA	1,819	KL6A052DPA	1,845	44
	KL6A066AEA	2,640	KL6A066DEA	2,640	KL6A066APA	2,183	KL6A066DPA	2,344	47
2	KL6A073AEA	3,450	KL6A073DEA	3,450	KL6A073APA	2,508	KL6A073DPA	2,706	52
	KL6A094AEA	3,908	KL6A094DEA	3,908	KL6A094APA	2,965	KL6A094DPA	3,011	55
	KL6A117AEA	4,105	KL6A117DEA	4,105	KL6A117APA	3,226	KL6A117DPA	3,269	58
	KL6A130AEA	4,384	KL6A130DEA	4,384	KL6A130APA	3,533	KL6A130DPA	3,585	62
3	KL6A141AEA	5,304	KL6A141DEA	5,304	KL6A141APA	3,940	KL6A141DPA	3,994	72
	KL6A161AEA	5,890	KL6A161DEA	5,890	KL6A161APA	4,490	KL6A161DPA	4,564	78
	KL6A181AEA	6,419	KL6A181DEA	6,419	KL6A181APA	5,048	KL6A181DPA	5,121	85
4	KL6A195AEA	6,915	KL6A195DEA	6,915	KL6A195APA	5,448	KL6A195DPA	5,520	115
	KL6A235AEA	8,387	KL6A235DEA	8,387	KL6A235APA	6,346	KL6A235DPA	6,850	124
	KL6A260AEA	9,139	KL6A260DEA	9,139	KL6A260APA	6,655	KL6A260DPA	7,169	147
5	KL6A295AEA	10,481	KL6A295DEA	10,481	KL6A295APA	7,919	KL6A295DPA	8,555	218
6	KL6A330AEA	11,249	KL6A330DEA	11,249	KL6A330APA	8,385	KL6A330DPA	9,055	257
	KL6A390AEA	12,630	KL6A390DEA	12,630	KL6A390APA	9,774	KL6A390DPA	10,387	262

Next-Gen All-Temp Unit Coolers

Air Defrost Pre-Configured¹ Models - Discontinued Models

Please note, the below models were discontinued in anticipation for the July 10th, 2020 DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability.

Number of Fans	PSC Motors - 6 FPI - 115/1/60						Approx. Ship Weight (lbs)
	EcoNet Control Package ^{2,3}		Mounted Components (404) ⁴		Mounted Components (High-Glide) ⁴		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6A041APARE	3,978	KL6A041APAAL	2,953	KL6A041APASL	2,953	41
	KL6A052APARE	4,044	KL6A052APAAL	3,019	KL6A052APASL	3,019	44
	KL6A066APARE	4,408	KL6A066APAAL	3,383	KL6A066APASL	3,383	47
2	KL6A073APARE	4,733	KL6A073APAAL	3,708	KL6A073APASL	3,708	52
	KL6A094APARE	5,190	KL6A094APAAL	4,165	KL6A094APASL	4,165	55
	KL6A117APARE	5,451	KL6A117APAAL	4,426	KL6A117APASL	4,426	58
	KL6A130APARE	5,758	KL6A130APAAL	4,733	KL6A130APASL	4,733	62
3	KL6A141APARE	6,165	KL6A141APAAL	5,140	KL6A141APASL	5,140	72
	KL6A161APARE	6,715	KL6A161APAAL	5,690	KL6A161APASL	5,690	78
	KL6A181APARE	7,273	KL6A181APAAL	6,248	KL6A181APASL	6,248	85
4	KL6A195APARE	7,673	KL6A195APAAL	6,648	KL6A195APASL	6,648	115
	KL6A235APARE	8,571	KL6A235APAAL	7,546	KL6A235APASL	7,546	124
	KL6A260APARE	8,880	KL6A260APAAL	7,855	KL6A260APASL	7,855	147
5	KL6A295APARE	10,144	KL6A295APAAL	9,177	KL6A295APASL	9,177	218
6	KL6A330APARE	10,610	KL6A330APAAL	9,989	KL6A330APASL	9,989	257
	KL6A390APARE	11,999	KL6A390APAAL	11,378	KL6A390APASL	11,378	262

1. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables in the Russell List Price or contact your local Russell sales representative.
2. EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B, R507A
3. EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local on-board two-row LCD display and push-button adjustments. (EcoNet replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)
4. EcoNet Control Package is not available in 50 Hz.
5. Models with Pre-configured Mechanical Components (TXV, LLSV and Thermostat) are rated for +25°FSS/10°FDT (Air Defrost) and -20°FSS/10°FDT (Electric Defrost).

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Electric Defrost Configurable Base Models

Number of Fans	Dual Speed EC Motors - 208-230/1/60				Approx. Ship Weight (lbs)
	6 FPI		4 FPI		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6E035DDA	3,354	KL4E027DDA	3,220	41
	KL6E042DDA	3,731	KL4E032DDA	3,582	44
	KL6E049DDA	4,106	KL4E038DDA	3,943	47
2	KL6E066DDA	5,174	KL4E051DDA	4,966	52
	KL6E077DDA	5,443	KL4E064DDA	5,227	55
	KL6E090DDA	5,603	KL4E080DDA	5,379	58
	KL6E105DDA	6,565	—		62
3	KL6E121DDA	7,340	KL4E094DDA	7,046	78
	KL6E142DDA	8,375	KL4E110DDA	8,041	85
4	KL6E162DDA	9,824	KL4E125DDA	9,429	124
	KL6E182DDA	10,840	KL4E141DDA	10,405	147
5	KL6E200DDA	12,190	KL4E155DDA	11,704	195
6	KL6E244DDA	14,300	KL4E195DDA	13,728	238
	KL6E281DDA	15,833	KL4E230DDA	15,199	238

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
2. Reverse Connections (U) are available at No Charge. Reverse Connection models cannot be ordered with any factory mounted options.
3. Five (5) and six (6) fan electric defrost models are also available wired for 208-230/3/60.. EcoNet is not available on 208-230/3/60 Models.
"—" = Not Available

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)								
	TXV	EEV	EcoNet Control Package	KE2 Evaporator Defrost Control	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	538	1,920	2,470	5,401	433	440	551	455	776
2	538	1,920	2,470	5,401	433	440	551	455	981
3	538	1,920	2,470	5,401	433	440	551	455	1,190
4	538	1,920	2,470	5,401	433	440	551	455	1,368
5	538	1,920	2,470	5,401	502	440	551	455	1,562
6	946	1,920	2,470	5,401	502	440	551	455	1,776

1. Shipped-Loose Accessories are found on Page 19
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. KE2 Evaporator Defrost Control requires a Liquid Line Solenoid Valve (LLSV).
6. LLS voltage must match the voltage applied to the motor.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen All-Temp Unit Coolers

Electric Defrost Pre-Configured¹ Models

Number of Fans	Dual Speed EC Motors - 6 FPI - 208-230/1/60						Approx. Ship Weight (lbs)
	EcoNet Control Package ^{2,3}		Mounted Components (404) ⁴		Mounted Components (High-Glide) ⁴		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6E035DDARE	5,824	KL6E035DDAAL	4,765	KL6E035DDASL	4,765	41
	KL6E042DDARE	6,201	KL6E042DDAAL	5,142	KL6E042DDASL	5,142	44
	KL6E049DDARE	6,576	KL6E049DDAAL	5,517	KL6E049DDASL	5,517	47
2	KL6E066DDARE	7,644	KL6E066DDAAL	6,585	KL6E066DDASL	6,585	52
	KL6E077DDARE	7,913	KL6E077DDAAL	6,854	KL6E077DDASL	6,854	55
	KL6E090DDARE	8,073	KL6E090DDAAL	7,014	KL6E090DDASL	7,014	58
	KL6E105DDARE	9,035	KL6E105DDAAL	7,976	KL6E105DDASL	7,976	62
3	KL6E121DDARE	9,810	KL6E121DDAAL	8,751	KL6E121DDASL	8,751	78
	KL6E142DDARE	10,845	KL6E142DDAAL	9,786	KL6E142DDASL	9,786	85
4	KL6E162DDARE	12,294	KL6E162DDAAL	11,235	KL6E162DDASL	11,235	124
	KL6E182DDARE	13,310	KL6E182DDAAL	12,251	KL6E182DDASL	12,251	147
5	KL6E200DDARE	14,660	KL6E200DDAAL	13,670	KL6E200DDASL	13,670	195
6	KL6E244DDARE	16,770	KL6E244DDAAL	16,188	KL6E244DDASL	16,188	238
	KL6E281DDARE	18,303	KL6E281DDAAL	17,721	KL6E281DDASL	17,721	238

1. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables in the Russell List Price or contact your local Russell sales representative.
2. EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B, R450A, R507A, R513A.
3. EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local on-board two-row LCD display and push-button adjustments. (EcoNet replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)
4. EcoNet Control Package is not available in 50 Hz.
5. Models with Pre-configured Mechanical Components (TXV, LLSV and Thermostat) are rated for +25°FSS/10°FDT (Air Defrost) and -20°FSS/10°FDT (Electric Defrost).

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Electric Defrost Base Models - Discontinued Models

Please note, the below models were discontinued in anticipation for the July 10th, 2020 DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability

Number of Fans	Single Speed EC Motors - 208-230/1/60				PSC Motors - 208-230/1/60				Approx. Ship Weight (lbs)
	6 FPI		4 FPI		6 FPI		4 FPI		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6E035DEA	3,022	KL4E027DEA	2,901	KL6E035DPA	2,597	KL4E027DPA	2,492	41
	KL6E042DEA	3,361	KL4E032DEA	3,227	KL6E042DPA	2,896	KL4E032DPA	2,780	44
	KL6E049DEA	3,699	KL4E038DEA	3,552	KL6E049DPA	3,237	KL4E038DPA	3,108	47
2	KL6E066DEA	4,661	KL4E051DEA	4,474	KL6E066DPA	3,762	KL4E051DPA	3,612	52
	KL6E077DEA	4,904	KL4E064DEA	4,709	KL6E077DPA	3,992	KL4E064DPA	3,833	55
	KL6E090DEA	5,048	KL4E080DEA	4,846	KL6E090DPA	4,182	KL4E080DPA	4,014	58
	KL6E105DEA	5,914	—		KL6E105DPA	4,880	—		62
3	KL6E121DEA	6,613	KL4E094DEA	6,348	KL6E121DPA	5,272	KL4E094DPA	5,060	78
	KL6E142DEA	7,545	KL4E110DEA	7,244	KL6E142DPA	6,197	KL4E110DPA	5,950	85
4	KL6E162DEA	8,850	KL4E125DEA	8,495	KL6E162DPA	7,055	KL4E125DPA	6,772	124
	KL6E182DEA	9,766	KL4E141DEA	9,374	KL6E182DPA	7,971	KL4E141DPA	7,652	147
5	KL6E200DEA	10,982	KL4E155DEA	10,544	KL6E200DPA	8,879	KL4E155DPA	8,523	195
6	KL6E244DEA	12,883	KL4E195DEA	12,368	KL6E244DPA	10,174	KL4E195DPA	9,768	238
	KL6E281DEA	14,264	KL4E230DEA	13,693	KL6E281DPA	11,593	KL4E230DPA	11,129	238

Next-Gen All-Temp Unit Coolers

Electric Defrost Pre-Configured¹ Models

Please note, the below models were discontinued in anticipation for the July 10th, 2020 DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability

Number of Fans	PSC Motors - 6 FPI - 208-230/1/60						Approx. Ship Weight (lbs)
	EcoNet Control Package ^{2,3}		Mounted Components (404) ⁴		Mounted Components (High-Glide) ⁴		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6E035DPARE	4,822	KL6E035DPAAL	3,797	KL6E035DPASL	3,797	41
	KL6E042DPARE	5,121	KL6E042DPAAL	4,096	KL6E042DPASL	4,096	44
	KL6E049DPARE	5,462	KL6E049DPAAL	4,437	KL6E049DPASL	4,437	47
2	KL6E066DPARE	5,987	KL6E066DPAAL	4,962	KL6E066DPASL	4,962	52
	KL6E077DPARE	6,217	KL6E077DPAAL	5,192	KL6E077DPASL	5,192	55
	KL6E090DPARE	6,407	KL6E090DPAAL	5,382	KL6E090DPASL	5,382	58
	KL6E105DPARE	7,105	KL6E105DPAAL	6,080	KL6E105DPASL	6,080	62
3	KL6E121DPARE	7,497	KL6E121DPAAL	6,472	KL6E121DPASL	6,472	78
	KL6E142DPARE	8,422	KL6E142DPAAL	7,397	KL6E142DPASL	7,397	85
4	KL6E162DPARE	9,280	KL6E162DPAAL	8,255	KL6E162DPASL	8,255	124
	KL6E182DPARE	10,196	KL6E182DPAAL	9,171	KL6E182DPASL	9,171	147
5	KL6E200DPARE	11,104	KL6E200DPAAL	10,137	KL6E200DPASL	10,137	195
6	KL6E244DPARE	12,399	KL6E244DPAAL	11,778	KL6E244DPASL	11,778	238
	KL6E281DPARE	13,818	KL6E281DPAAL	13,197	KL6E281DPASL	13,197	238

1. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables in the Russell List Price or contact your local Russell sales representative.
2. EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B, R507A
3. EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local on-board two-row LCD display and push-button adjustments. (EcoNet replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)
4. EcoNet Control Package is not available in 50 Hz.
5. Models with Pre-configured Mechanical Components (TXV, LLSV and Thermostat) are rated for +25°FSSST/10°FDT (Air Defrost) and -20°FSSST/10°FDT (Electric Defrost).

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Hot Gas Defrost - Reverse Cycle Configurable Base Models

Number of Fans	Dual Speed EC Motors - 115/1/60				Dual Speed EC Motors - 208-230/1/60				Approx. Ship Weight (lbs)
	6 FPI		4 FPI		6 FPI		4 FPI		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6G035ADA	3,266	KL4G027ADA	3,135	KL6G035DDA	3,340	KL4G027DDA	3,208	41
	KL6G042ADA	3,687	KL4G032ADA	3,539	KL6G042DDA	3,774	KL4G032DDA	3,623	44
	KL6G049ADA	4,161	KL4G038ADA	3,996	KL6G049DDA	4,259	KL4G038DDA	4,090	47
2	KL6G066ADA	4,997	KL4G051ADA	4,797	KL6G066DDA	5,317	KL4G051DDA	5,105	52
	KL6G077ADA	5,531	KL4G064ADA	5,310	KL6G077DDA	4,614	KL4G064DDA	5,614	55
	KL6G090ADA	5,862	KL4G080ADA	5,629	KL6G090DDA	6,257	KL4G080DDA	6,006	58
	KL6G105ADA	6,872	—		KL6G105DDA	7,268	—		62
3	KL6G121ADA	7,216	KL4G094ADA	6,926	KL6G121DDA	7,678	KL4G094DDA	7,370	78
	KL6G142ADA	8,447	KL4G110ADA	8,107	KL6G142DDA	8,749	KL4G110DDA	8,399	85
4	KL6G162ADA	9,381	KL4G125ADA	9,004	KL6G162DDA	9,972	KL4G125DDA	9,573	124
	KL6G182ADA	10,506	KL4G141ADA	10,085	KL6G182DDA	11,283	KL4G141DDA	10,830	147
5	KL6G200ADA	11,107	KL4G155ADA	10,663	KL6G200DDA	11,808	KL4G155DDA	11,336	195
6	KL6G244ADA	13,450	KL4G195ADA	12,912	KL6G244DDA	14,434	KL4G195DDA	13,858	238
	KL6G281ADA	14,978	KL4G230ADA	14,379	KL6G281DDA	16,160	KL4G230DDA	15,514	262

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
2. Hot Gas Defrost models feature an Electric Drain Pan Heater. Hot Gas Drain Pans are not available at this time.

Hot Gas Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV ³	EEV ⁴	LLSV ⁵	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	538	1,920	433	440	551	455	776
2	538	1,920	433	440	551	455	981
3	538	1,920	433	440	551	455	1,190
4	538	1,920	433	440	551	455	1,368
5	538	1,920	502	440	551	455	1,562
6	946	1,920	502	440	551	455	1,776

1. Shipped-Loose Accessories are found on Page 19
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV must also be ordered. For this option selection, a check valve will also be included.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
5. EcoNet Control Package is not available in 50 Hz.
6. LLS voltage must match the voltage applied to the motor.
7. Consult Factory for Factory Mounted Suction Check Valves

“—” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen All-Temp Unit Coolers

Hot Gas Defrost - 3-Pipe Configurable Base Models

Number of Fans	Dual Speed EC Motors - 115/1/60				Dual Speed EC Motors - 208-230/1/60				Approx. Ship Weight (lbs)
	6 FPI		4 FPI		6 FPI		4 FPI		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KL6H035ADA	3,266	KL4H027ADA	3,135	KL6H035DDA	3,340	KL4H027DDA	3,208	41
	KL6H042ADA	3,687	KL4H032ADA	3,539	KL6H042DDA	3,774	KL4H032DDA	3,623	44
	KL6H049ADA	4,161	KL4H038ADA	3,996	KL6H049DDA	4,259	KL4H038DDA	4,090	47
2	KL6H066ADA	4,997	KL4H051ADA	4,797	KL6H066DDA	5,317	KL4H051DDA	5,105	52
	KL6H077ADA	5,531	KL4H064ADA	5,310	KL6H077DDA	5,850	KL4H064DDA	5,614	55
	KL6H090ADA	5,862	KL4H080ADA	5,629	KL6H090DDA	6,257	KL4H080DDA	6,006	58
	KL6H105ADA	6,872	—		KL6H105DDA	7,268	—		
3	KL6H121ADA	7,216	KL4H094ADA	6,926	KL6H121DDA	7,678	KL4H094DDA	7,370	78
	KL6H142ADA	8,447	KL4H110ADA	8,107	KL6H142DDA	8,749	KL4H110DDA	8,399	85
4	KL6H162ADA	9,381	KL4H125ADA	9,004	KL6H162DDA	9,972	KL4H125DDA	9,573	124
	KL6H182ADA	10,506	KL4H141ADA	10,085	KL6H182DDA	11,283	KL4H141DDA	10,830	147
5	KL6H200ADA	11,107	KL4H155ADA	10,663	KL6H200DDA	11,808	KL4H155DDA	11,336	195
6	KL6H244ADA	13,450	KL4H195ADA	12,912	KL6H244DDA	14,434	KL4H195DDA	13,858	238
	KL6H281ADA	14,978	KL4H230ADA	14,379	KL6H281DDA	16,160	KL4H230DDA	15,514	262

- EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
- Hot Gas Defrost models feature an Electric Drain Pan Heater. Hot Gas Drain Pans are not available at this time.

Hot Gas Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	LLSV ⁴	Liquid TXV Bypass Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	538	1,920	433	440	551	455	776	699
2	538	1,920	433	440	551	455	981	884
3	538	1,920	433	440	551	455	1,190	1,072
4	538	1,920	433	440	551	455	1,368	1,232
5	538	1,920	502	440	551	455	1,562	1,407
6	946	1,920	502	440	551	455	1,776	1,600

- Shipped-Loose Accessories are found on Page 19
- Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
- Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- LLS voltage must match the voltage applied to the motor.
- Consult Factory for Factory Mounted Suction Check Valves

“—” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Next-Gen All-Temp Unit Coolers

Shipped-Loose Accessories

Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458

Heat Exchangers

Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544

Center Mount Unit Coolers

The award-winning Center Mount unit coolers are designed for use in walk-in coolers and freezers with very low headroom clearance and are ideal for use in beer caves. Units mount flush to the ceiling to provide for extra storage space. The proprietary independent defrost system technology delivers more stable room temperatures, lowers operating costs, and contributes to less food spoilage and loss. The unit coolers feature two-way air flow to provide for even circulation and temperature, easy serviceability, can be used with multiple refrigerants, and are available in air and electric defrost models. Models meet DOE AWEF performance and California Title 24 regulations.



STANDARD FEATURES

- Dual Speed EC Motors
- Extra low height — mounts flush to ceiling
- Two-way air flow for even air circulation and consistent temperature
- Electric Defrost models feature independantly defrosted coils for optimial defrost performance
- High efficiency fan guard design and deep draw venturi provide optimal air flow
- Sloped housing for efficient condensate draining
- Unique design allows for service in confined spaces
- Lightweight and durable embossed aluminum housing
- Dual Speed EC motors are compliant with California Title 24 regulations for single compressor systems

Center Mount Nomenclature:

K	E	6	A	041	A	D	A
Brand	Style	Fins Per Inch	Defrost Type	BTUH in Hundreds	Unit Voltage	Motor Type	Revision
K = Kramer	E = Center Mount	6 FPI 4 FPI	A = Air E = Electric		A = 115/1/60 D = 208-230/1/60	D - Dual Speed EC	

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Center Mount Unit Coolers

Air Defrost Configurable Base Models

Number of Fans	Dual Speed EC Motors - 6 FPI				Approx. Ship Weight (lbs)
	115/1/60		230-230/1/60		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KE6A041ADA	3,253	KE6A041DDA	3,417	190
2	KE6A070ADA	4,722	KE6A070DDA	4,931	210
	KE6A084ADA	5,178	KE6A084DDA	5,392	215
3	KE6A104ADA	5,652	KE6A104DDA	5,910	230
	KE6A128ADA	7,064	KE6A128DDA	7,334	240
4	KE6A141ADA	7,788	KE6A141DDA	8,100	280
	KE6A169ADA	8,968	KE6A169DDA	9,292	290
5	KE6A204ADA	9,784	KE6A204DDA	10,157	330
	KE6A258ADA	11,838	KE6A258DDA	13,443	340

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Air Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package	LLSV ⁴	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	538	1,920	2,470	440	551	201	181
2	538	1,920	2,470	440	551	254	229
3	538	1,920	2,470	440	551	307	277
4	538	1,920	2,470	440	551	360	324
5	538	1,920	2,470	440	551	414	373

1. Shipped-Loose Accessories are found on Page 23
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. LLS voltage must match the voltage applied to the motor.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Center Mount Unit Coolers

Electric Defrost Configurable Base Models

Number of Fans	Dual Speed EC Motors 208-230/1/60		Approx. Ship Weight (lbs)
	Model Number	List Price (\$US)	
6 FPI	1	KE6E037DDA	5,125
		KE6E045DDA	6,898
	2	KE6E075DDA	7,126
		KE6E089DDA	8,964
	3	KE6E108DDA	9,731
		KE6E125DDA	9,848
	4	KE6E137DDA	11,833
		KE6E182DDA	12,522
	5	KE6E221DDA	14,914
		KE6E278DDA	16,742
4 FPI	1	KE4E037DDA	5,125
	2	KE4E075DDA	7,126
	3	KE4E107DDA	9,641
	4	KE4E149DDA	12,135
	5	KE4E186DDA	13,728
		KE4E234DDA	15,789

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package	LLSV ⁴	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	538	1,920	2,470	433	440	551	201
2	538	1,920	2,470	433	440	551	254
3	538	1,920	2,470	433	440	551	307
4	538	1,920	2,470	433	440	551	360
5	538	1,920	2,470	433	440	551	414

1. Shipped-Loose Accessories are found on Page 23
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. LLS voltage must match the voltage applied to the motor.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Center Mount Unit Coolers

Shipped-Loose Accessories

Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458

Heat Exchangers

Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Low Velocity Center Mount Unit Coolers

Low Velocity Center Mount unit coolers mount flush to the ceiling to provide for extra storage space and were engineered to meet performance regulations. Units are ideal for florist boxes, produce storage, meat cutting, holding and packing rooms, and similar applications. Features include two-way air flow to provide for even circulation and temperature, easy serviceability, can be used with multiple refrigerants, and are available in air and electric defrost models.



STANDARD FEATURES

- Dual Speed EC Motors
- Extra low height — mounts flush to ceiling
- Two-way air flow for even air circulation and consistent temperature
- Electric Defrost models feature independantly defrosted coils for optimal defrost performance
- High efficiency fan guard design and deep draw venturi provide optimal air flow
- Sloped housing for efficient condensate draining
- Unique design allows for service in confined spaces
- Lightweight and durable embossed aluminum housing
- Dual Speed EC motors are compliant with California Title 24 regulations for single compressor systems



Low Velocity Center Mount Nomenclature:

K	V	6	A	043	A	D	A
Brand	Style	Fins Per Inch	Defrost Type	BTUH in Hundreds	Unit Voltage	Motor Type	Revision
K = Kramer	V = Low Velocity Center Mount	6 FPI	A = Air E = Electric		A = 115/1/60 D = 208-230/1/60	D - Dual Speed EC	

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Low Velocity Center Mount Unit Coolers

Configurable Base Models

Number of Fans	Dual Speed EC Motors - 6 FPI						Approx. Ship Weight (lbs)
	Air Defrost				Electric Defrost		
	115/1/60		230-230/1/60		208-230/1/60		
	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
1	KV6A043ADA	5,134	KV6A043DDA	5,530	KV6E043DDA	5,911	195
2	KV6A053ADA	5,317	KV6A053DDA	6,441	KV6E053DDA	6,204	195
	KV6A085ADA	6,193	KV6A085DDA	7,899	KV6E085DDA	7,258	215
3	KV6A106ADA	7,595	KV6A106DDA	9,169	KV6E106DDA	8,778	215
	KV6A129ADA	8,816	KV6A129DDA	10,289	KV6E129DDA	10,304	235
4	KV6A158ADA	9,891	KV6A158DDA	12,537	KV6E158DDA	11,510	235
	KV6A176ADA	12,055	KV6A176DDA	14,176	KV6E176DDA	14,098	285
5	KV6A218ADA	13,631	KV6A218DDA	15,548	KV6E218DDA	15,852	285
	KV6A271ADA	14,949	KV6A271DDA	14,007	KV6E271DDA	17,658	340

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package	LLSV ⁴	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	538	1,920	2,470	433	440	551	201
2	538	1,920	2,470	433	440	551	254
3	538	1,920	2,470	433	440	551	307
4	538	1,920	2,470	433	440	551	360
5	538	1,920	2,470	433	440	551	414

1. Shipped-Loose Accessories are found on Page 26
2. Alternative Housing, Coil Coating & Housing Coating options are available. Contact Application Engineering for coated housing or alternate coil coating. ElectroFin, Bronz-Glow and Heresite are available coating options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. LLS voltage must match the voltage applied to the motor.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Low Velocity Center Mount Unit Coolers**Shipped-Loose Accessories****Controls & Thermostats**

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458

Heat Exchangers

Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544

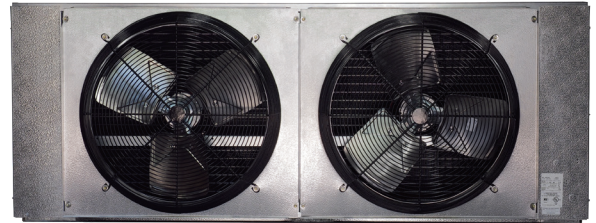
For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS

KRAMER

Medium Profile Unit Coolers

Medium Profile Unit Coolers were engineered to meet performance regulations and are the perfect evaporator solution for medium to large walk-in coolers and freezers. The units feature rail-mount motors, high efficiency fan and venturi designs, enhanced surface coil tubing, easily removable fan guards and modular fan panels, face mounted defrost heaters, hinged drain pans and are optimized for multiple refrigerants.



Available with air, electric or hot gas defrost.

STANDARD FEATURES



- Rail-mounted, energy-efficient dual speed EC motors
- Enhanced copper tube and aluminum fin coil construction
- High efficiency fan and deep draw venturi for optimal air flow
- Slide out end panels
- Easily removable fan guards and modular fan panels
- Hinged drain pan
- Face mounted defrost heaters for optimal performance and easy service access
- Embossed aluminum housing
- Dual Speed EC motors are compliant with California Title 24 regulations for single compressor systems

Medium Profile Nomenclature:

K	M	6	E	153	D	D	A
Brand	Style	Fins Per Inch	Defrost Type	BTUH in Hundreds	Unit Voltage	Motor Type	Revision
K = Kramer	M = Medium Profile	6 FPI 4 FPI	A = Air E = Electric H = Hot Gas 3-Pipe G - Hot Gas Reverse T - ThermoBank*		A = 115/1/60 D = 208-230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC	

* Contact Factory for ThermoBank Pricing

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Medium Profile Unit Coolers

Air Defrost Configurable Base Models

	Number of Fans	Dual Speed EC Motors						Approx. Ship Weight (lbs)
		115/1/60		208-230/1/60		460/1/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KM6A182ADA	8,462	KM6A182DDA	8,631	KM6A182FDA	9,140	330
		KM6A220ADA	10,210	KM6A220DDA	10,414	KM6A220FDA	11,028	330
	2	KM6A276ADA	14,355	KM6A276DDA	14,642	KM6A276FDA	15,504	505
		KM6A370ADA	18,145	KM6A370DDA	18,508	KM6A370FDA	19,597	505
		KM6A442ADA	21,049	KM6A442DDA	21,471	KM6A442FDA	22,733	505
	3	KM6A549ADA	25,544	KM6A549DDA	26,056	KM6A549FDA	27,587	691
		KM6A658ADA	26,908	KM6A658DDA	27,447	KM6A658FDA	29,061	691

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Air Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	538	1,920	3,395	860	440	551	620
2	946	1,920	3,395	860	440	551	1,022
3	946	1,920	3,395	1,070	440	551	1,366

1. Shipped-Loose Accessories are found on Page 32
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Medium Profile Unit Coolers

Electric Defrost Configurable Base Models

	Number of Fans	Dual Speed EC Motors								Approx. Ship Weight (lbs)
		208-230/1/60		208-230/3/60		460/1/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KM6E153DDA	10,815	KM6E153EDA	10,922	KM6E153FDA	11,687	KM6E153GDA	11,797	330
		KM6E184DDA	14,127	KM6E184EDA	14,268	KM6E184FDA	15,267	KM6E184GDA	15,409	330
	2	KM6E311DDA	17,742	KM6E311EDA	17,921	KM6E311FDA	19,175	KM6E311GDA	19,356	505
		KM6E374DDA	22,887	KM6E374EDA	23,118	KM6E374FDA	24,736	KM6E374GDA	24,966	505
	3	—		KM6E469EDA	26,188	KM6E469FDA	28,021	KM6E469GDA	28,282	691
		—		KM6E564EDA	28,699	KM6E564FDA	30,708	KM6E564GDA	30,995	691
4 FPI	1	KM4E110DDA	10,383	KM4E110EDA	10,486	KM4E110FDA	11,221	KM4E110GDA	11,325	330
		KM4E143DDA	13,562	KM4E143EDA	13,699	KM4E143FDA	14,658	KM4E143GDA	14,794	330
	2	KM4E232DDA	17,034	KM4E232EDA	17,205	KM4E232FDA	18,410	KM4E232GDA	18,581	505
		KM4E288DDA	21,972	KM4E288EDA	22,193	KM4E288FDA	23,747	KM4E288GDA	23,969	505
	3	—		KM4E336EDA	25,142	KM4E336FDA	26,902	KM4E336GDA	27,154	691
		—		KM4E419EDA	27,554	KM4E419FDA	29,480	KM4E419GDA	29,758	691

1. EC motors are rated for 50HZ operations. Dual speed motor operation employs a relay to control motor speed.

“—” = Not Available

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	EcoNet Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	538	1,920	3,395	860	440	551	455	620
2	946	1,920	3,395	860	440	551	455	1,022
3	946	1,920	3,395	1,070	440	551	455	1,366

1. Shipped-Loose Accessories are found on Page 32
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Medium Profile Unit Coolers

Hot Gas Defrost - Reverse Cycle Configurable Base Models

	Number of Fans	Dual Speed EC Motors				Approx. Ship Weight (lbs)
		208-230/1/60		460/1/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KM6G153DDA	15,198	KM6G153FDA	16,427	330
		KM6G184DDA	15,863	KM6G184FDA	17,144	330
	2	KM6G311DDA	22,368	KM6G311FDA	24,174	505
		KM6G374DDA	23,816	KM6G374FDA	25,741	505
	3	KM6G469DDA	29,497	KM6G469FDA	31,881	691
		KM6G564DDA	31,969	KM6G564FDA	34,553	691
4 FPI	1	KM4G110DDA	14,592	KM4G110FDA	15,771	330
		KM4G143DDA	15,228	KM4G143FDA	16,458	330
	2	KM4G232DDA	21,473	KM4G232FDA	23,209	505
		KM4G288DDA	22,865	KM4G288FDA	24,712	505
	3	KM4G336DDA	28,317	KM4G336FDA	30,605	691
		KM4G419DDA	30,692	KM4G419FDA	33,171	691

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
2. Hot Gas Defrost Models feature an Electric Drain Pan Heater

Hot Gas Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV ³	EEV ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	538	1,920	433	440	551	455	776
2	538	1,920	433	440	551	455	981
3	538	1,920	433	440	551	455	1,190

1. Shipped-Loose Accessories are found on Page 32
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV must also be ordered. For this option selection, a check valve will also be included.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Medium Profile Unit Coolers

Hot Gas Defrost - 3-Pipe Configurable Base Models

	Number of Fans	Dual Speed EC Motors				Approx. Ship Weight (lbs)
		208-230/1/60		460/1/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KM6H153DDA	15,198	KM6H153FDA	16,427	330
		KM6H184DDA	15,863	KM6H184FDA	17,144	330
	2	KM6H311DDA	22,368	KM6H311FDA	24,174	505
		KM6H374DDA	23,816	KM6H374FDA	25,741	505
	3	KM6H469DDA	29,497	KM6H469FDA	31,881	691
		KM6H564DDA	31,969	KM6H564FDA	34,553	691
4 FPI	1	KM4H110DDA	14,592	KM4H110FDA	15,771	330
		KM4H143DDA	15,228	KM4H143FDA	16,458	330
	2	KM4H232DDA	21,473	KM4H232FDA	23,209	505
		KM4H288DDA	22,865	KM4H288FDA	24,712	505
	3	KM4H336DDA	28,317	KM4H336FDA	30,605	691
		KM4H419DDA	30,692	KM4H419FDA	33,171	691

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.
2. Hot Gas Defrost Models feature an Electric Drain Pan Heater

Hot Gas Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	538	1,920	433	440	551	455	776
2	538	1,920	433	440	551	455	981
3	538	1,920	433	440	551	455	1,190

1. Shipped-Loose Accessories are found on Page 32
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Medium Profile Unit Coolers

Shipped-Loose Accessories

Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458
	9 thru 10 HP	664
	12 thru 15 HP	816

Heat Exchangers

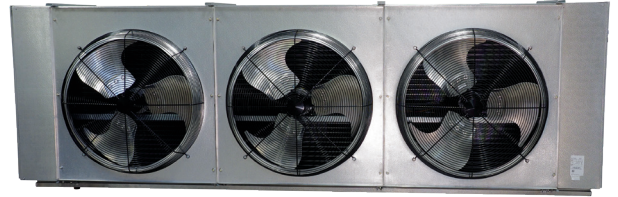
Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544
HX-250	105065007	14	5/8	1-3/8	750
HX-350	105065008	16	5/8	1-5/8	770

WALK-IN UNIT COOLERS

KRAMER

Heavy Duty Unit Coolers

Heavy Duty Unit Coolers are the ideal evaporator for medium and large walk-in coolers and freezers. Designed with efficiency, performance and service in mind, the Heavy Duty units were engineered to meet performance regulations and feature energy-efficient rail-mount Dual Speed EC Motors. All units have several enhanced service features including rail-mount motors, new high efficiency fan and venturi designs, enhanced surface coil tubing, easily removable fan guards and modular fan panels, face mount defrost heaters, hinged drain pans and shipping pallets designed to facilitate easy installation. One through four fan models are available with air, electric or hot gas defrost.



STANDARD FEATURES

- Rail-mounted, energy-efficient dual speed EC motors
- Enhanced copper tube and aluminum fin coil construction
- High efficiency deep draw venturi for optimal air flow
- Slide out end panels
- Easily removable fan guards and modular fan panels
- Hinged drain pan
- Face mounted defrost heaters for optimal performance and easy service access
- Embossed aluminum housing
- Dual Speed EC motors are compliant with California Title 24 regulations for single compressor systems

Heavy Duty Nomenclature:

K	H	6	E	109	D	D	A
Brand	Style	Fins Per Inch	Defrost Type	BTUH in Thousands	Unit Voltage	Motor Type	Revision
K = Kramer	H = Heavy Duty Y = Reverse Connections	6 FPI 4 FPI	A = Air E = Electric H = Hot Gas 3-Pipe w/ Electric Drain Pan K = Hot Gas 3-Pipe w/ Hot Gas Drain Pan G - Hot Gas Reverse w/ Electric Drain Pan L - Hot Gas Reverse w/ Hot Gas Drain Pan T - ThermoBank		D = 208-230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC	

* Contact Factory for ThermoBank Pricing

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Heavy Duty Unit Coolers

Air Defrost Configurable Base Models

		Number of Fans	Dual Speed EC Motors				Approx. Ship Weight (lbs)
			208-230/1/60		460/1/60		
			Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KH6A031DDA	21,026	KH6A031FDA	21,446	470	
		KH6A043DDA	23,095	KH6A043FDA	23,559	470	
		KH6A052DDA	24,206	KH6A052FDA	24,690	470	
	2	KH6A063DDA	26,975	KH6A063FDA	27,515	730	
		KH6A087DDA	35,292	KH6A087FDA	35,997	730	
		KH6A105DDA	39,606	KH6A105FDA	40,400	730	
	3	KH6A132DDA	42,278	KH6A132FDA	43,124	1,000	
		KH6A156DDA	56,646	KH6A156FDA	57,780	1,000	
	4	KH6A175DDA	65,770	KH6A175FDA	67,086	1,130	
		KH6A209DDA	73,169	KH6A209FDA	74,634	1,130	

- EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Air Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	946	1,920	6,632	860	440	551	914
2	1,623	1,920	6,632	1,070	440	551	1,215
3	1,623	2,652	6,632	1,070	440	551	1,565
4	1,623	2,652	6,632	1,230	440	551	1,797

- Shipped-Loose Accessories are found on Page 38
- Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
- Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- EcoNet Control Package is not available in 50 Hz.
- Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Heavy Duty Unit Coolers

Electric Defrost Configurable Base Models

	Number of Fans	Dual Speed EC Motor				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KH6E033EDA	23,885	KH6E033GDA	24,365	470
		KH6E044EDA	28,518	KH6E044GDA	29,089	470
		KH6E053EDA	30,836	KH6E053GDA	31,452	470
	2	KH6E066EDA	37,114	KH6E066GDA	37,857	730
		KH6E089EDA	47,646	KH6E089GDA	48,597	730
		KH6E109EDA	56,802	KH6E109GDA	57,938	730
	3	KH6E134EDA	62,981	KH6E134GDA	64,241	1,000
		KH6E163EDA	82,533	KH6E163GDA	84,184	1,000
	4	KH6E199EDA	94,766	KH6E199GDA	96,662	1,130
4 FPI	1	KH4E035EDA	27,378	KH4E035GDA	27,925	470
		KH4E044EDA	29,600	KH4E044GDA	30,194	470
	2	KH4E071EDA	45,740	KH4E071GDA	46,653	730
		KH4E087EDA	54,529	KH4E087GDA	55,619	730
	3	KH4E107EDA	60,463	KH4E107GDA	61,669	1,000
		KH4E131EDA	79,231	KH4E131GDA	80,815	1,000
	4	KH4E167EDA	90,976	KH4E167GDA	92,794	1,130

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	EcoNet Control Package ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	6,632	860	440	551	455	914
2	1,623	1,920	6,632	1,070	440	551	455	1,215
3	1,623	2,652	6,632	1,070	440	551	455	1,565
4	1,623	2,652	6,632	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 38
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Heavy Duty Unit Coolers

Hot Gas Defrost - Reverse Cycle Configurable Base Models

	Number of Fans	Dual Speed EC Motors								Approx. Ship Weight (lbs)
		Electric Drain Pan Heater				Hot Gas Drain Pan Heater				
		208-230/1/60		460/1/60		208-230/1/60		460/1/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KH6G033DDA	23,646	KH6G033FDA	24,121	KH6L033DDA	24,002	KH6L033FDA	24,483	470
		KH6G044DDA	28,233	KH6G044FDA	28,799	KH6L044DDA	28,657	KH6L044FDA	29,231	470
		KH6G053DDA	30,527	KH6G053FDA	31,138	KH6L053DDA	30,987	KH6L053FDA	31,606	470
	2	KH6G066DDA	36,742	KH6G066FDA	37,477	KH6L066DDA	37,294	KH6L066FDA	38,039	730
		KH6G089DDA	47,168	KH6G089FDA	48,111	KH6L089DDA	47,877	KH6L089FDA	48,833	730
		KH6G109DDA	56,234	KH6G109FDA	57,357	KH6L109DDA	57,076	KH6L109FDA	58,217	730
	3	KH6G134DDA	62,352	KH6G134FDA	63,599	KH6L134DDA	63,287	KH6L134FDA	64,553	1,000
		KH6G163DDA	81,707	KH6G163FDA	83,341	KH6L163DDA	82,933	KH6L163FDA	84,591	1,000
	4	KH6G199DDA	93,818	KH6G199FDA	95,694	KH6L199DDA	95,226	KH6L199FDA	97,128	1,130
4 FPI	1	KH4G035DDA	27,104	KH4G035FDA	27,647	KH4L035DDA	27,511	KH4L035FDA	28,061	470
		KH4G044DDA	29,305	KH4G044FDA	29,891	KH4L044DDA	29,745	KH4L044FDA	30,340	470
	2	KH4G071DDA	45,282	KH4G071FDA	46,188	KH4L071DDA	45,962	KH4L071FDA	46,879	730
		KH4G087DDA	53,983	KH4G087FDA	55,062	KH4L087DDA	54,792	KH4L087FDA	55,889	730
	3	KH4G107DDA	59,856	KH4G107FDA	61,053	KH4L107DDA	60,756	KH4L107FDA	61,969	1,000
		KH4G131DDA	78,438	KH4G131FDA	80,007	KH4L131DDA	79,616	KH4L131FDA	81,206	1,000
	4	KH4G167DDA	90,064	KH4G167FDA	91,867	KH4L167DDA	91,417	KH4L167FDA	93,246	1,130

1. EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations . Dual speed motor operation employs a relay to control motor speed.

Hot Gas Defrost - Reverse Cycle Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)					
	TXV, LLSV and Check Valve ³	EEV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	2,638	1,920	440	551	455	914
2	3,508	1,920	440	551	455	1,215
3	3,508	2,652	440	551	455	1,565
4	3,667	2,652	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 38
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV and Check Valve must also be ordered.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

WALK-IN UNIT COOLERS



Heavy Duty Unit Coolers

Hot Gas Defrost - 3-Pipe Configurable Base Models

	Number of Fans	Dual Speed EC Motors								Approx. Ship Weight (lbs)
		Electric Drain Pan Heater				Hot Gas Drain Pan Heater				
		208-230/1/60		460/1/60		208-230/1/60		460/1/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KH6H033DDA	23,646	KH6H033FDA	24,121	KH6K033DDA	24,002	KH6K033FDA	24,483	470
		KH6H044DDA	28,233	KH6H044FDA	28,799	KH6K044DDA	28,657	KH6K044FDA	29,231	470
		KH6H053DDA	30,527	KH6H053FDA	31,138	KH6K053DDA	30,987	KH6K053FDA	31,606	470
	2	KH6H066DDA	36,742	KH6H066FDA	37,477	KH6K066DDA	37,294	KH6K066FDA	38,039	730
		KH6H089DDA	47,168	KH6H089FDA	48,111	KH6K089DDA	47,877	KH6K089FDA	48,833	730
		KH6H109DDA	56,234	KH6H109FDA	57,357	KH6K109DDA	57,076	KH6K109FDA	58,217	730
	3	KH6H134DDA	62,352	KH6H134FDA	63,599	KH6K134DDA	63,287	KH6K134FDA	64,553	1000
		KH6H163DDA	81,707	KH6H163FDA	83,341	KH6K163DDA	82,933	KH6K163FDA	84,591	1000
	4	KH6H199DDA	93,818	KH6H199FDA	95,694	KH6K199DDA	95,226	KH6K199FDA	97,128	1130
4 FPI	1	KH4H035DDA	27,104	KH4H035FDA	27,647	KH4K035DDA	27,511	KH4K035FDA	28,061	470
		KH4H044DDA	29,305	KH4H044FDA	29,891	KH4K044DDA	29,745	KH4K044FDA	30,340	470
	2	KH4H071DDA	45,282	KH4H071FDA	46,188	KH4K071DDA	45,962	KH4K071FDA	46,879	730
		KH4H087DDA	53,983	KH4H087FDA	55,062	KH4K087DDA	54,792	KH4K087FDA	55,889	730
	3	KH4H107DDA	59,856	KH4H107FDA	61,053	KH4K107DDA	60,756	KH4K107FDA	61,969	1,000
		KH4H131DDA	78,438	KH4H131FDA	80,007	KH4K131DDA	79,616	KH4K131FDA	81,206	1,000
	4	KH4H167DDA	90,064	KH4H167FDA	91,867	KH4K167DDA	91,417	KH4K167FDA	93,246	1,130

- EC motors are rated for 50HZ operations. Dual speed EC motors are compliant with California Title 24 regulations. Dual speed motor operation employs a relay to control motor speed.

Hot Gas Defrost - 3-Pipe Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	860	440	551	455	914
2	1,623	1,920	1,070	440	551	455	1,215
3	1,623	2,652	1,070	440	551	455	1,565
4	1,623	2,652	1,230	440	551	455	1,797

- Shipped-Loose Accessories are found on Page 38
- Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
- Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Heavy Duty Unit Coolers

Shipped-Loose Accessories

Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
	16 to 25 Tons	2,127
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
	10 to 30 Tons	1,078
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458
	9 thru 10 HP	664
	12 thru 15 HP	816
	22 HP	1,041

Heat Exchangers

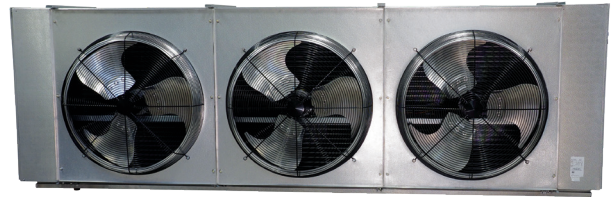
Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544
HX-250	105065007	14	5/8	1-3/8	750
HX-350	105065008	16	5/8	1-5/8	770
HX-500	105065009	17	7/8	2-1/8	1,221
LHX-15	105065010	30	7/8	2-1/8	3,351
LHX-20	105065011	30	1-1/8	2-1/8	3,585
LHX-25	105065012	30	1-1/8	2-5/8	3,839

WALK-IN UNIT COOLERS



Warehouse Unit Coolers

Designed with efficiency, performance and service in mind, Kramer's Warehouse Unit Cooler line is optimized to cover Cold Storage applications in the most effective way. Models are designed exclusively for use in walk-in coolers and freezers 3,000 sq. ft and larger. Warehouse Unit Coolers have several enhanced service features including rail-mount motors, new high efficiency fan and venturi designs, enhanced surface coil tubing, easily removable fan guards and modular fan panels, face mount defrost heaters, hinged drain pans and shipping pallets designed to facilitate easy installation. One through four fan models are available with air, electric or hot gas defrost.



Warehouse models are designed exclusively for use in walk-in coolers and freezers 3,000 sq. ft and larger.

STANDARD FEATURES

- Rail-mount three-phase motors with standard or high-static pressure prop fan blades
- Enhanced copper tube and aluminum fin coil construction
- High efficiency deep draw venturi for optimal air flow
- Slide out end panels
- Easily removable fan guards and modular fan panels
- Hinged drain pan
- Face mounted defrost heaters for optimal performance and easy service access
- Embossed aluminum housing

Warehouse Nomenclature:

K	W	6	E	143	E	T	A
Brand	Style	Fins Per Inch	Defrost Type	BTUH in Thousands	Unit Voltage	Motor Type	Revision
K = Kramer	W = Warehouse Z = Reverse Connections	6 FPI 4 FPI	A = Air E = Electric H = Hot Gas 3-Pipe w/ Electric Drain Pan K = Hot Gas 3-Pipe w/ Hot Gas Drain Pan G - Hot Gas Reverse w/ Electric Drain Pan L - Hot Gas Reverse w/ Hot Gas Drain Pan T - ThermoBank		E - 208-230/3/60 G - 460/3/60	T = Three Phase H = Three Phase with High-Static (Pressure Prop) Fan Blades	

* Contact Factory for ThermoBank Pricing

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Air Defrost Configurable Base Models

	Number of Fans	Three-Phase Motor - Standard Fan				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model NumbeK	List PKice (\$US)	Model NumbeK	List PKice (\$US)	
6 FPI	1	KW6A034ETA	15,576	KW6A034GTA	15,887	480
		KW6A047ETA	17,108	KW6A047GTA	17,449	480
		KW6A058ETA	17,929	KW6A058GTA	18,287	480
	2	KW6A069ETA	19,981	KW6A069GTA	20,381	750
		KW6A094ETA	28,234	KW6A094GTA	28,799	750
		KW6A117ETA	31,684	KW6A117GTA	32,320	750
	3	KW6A143ETA	33,823	KW6A143GTA	34,499	1,030
		KW6A176ETA	45,317	KW6A176GTA	46,225	1,030
	4	KW6A190ETA	52,616	KW6A190GTA	53,671	1,360
		KW6A234ETA	58,535	KW6A234GTA	59,706	1,360

Air Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	EcoNet Control Package ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	946	1,920	6,632	860	440	551	914
2	1,623	1,920	6,632	1,070	440	551	1,215
3	1,623	2,652	6,632	1,070	440	551	1,565
4	1,623	2,652	6,632	1,230	440	551	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

WALK-IN UNIT COOLERS



Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Electric Defrost Configurable Base Models - Standard Fan

	Number of Fans	Three-Phase Motor - Standard Fan				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6E036ETA	17,695	KW6E036GTA	18,047	480
		KW6E047ETA	21,126	KW6E047GTA	21,547	480
		KW6E059ETA	22,840	KW6E059GTA	23,298	480
	2	KW6E072ETA	30,928	KW6E072GTA	31,546	750
		KW6E096ETA	39,706	KW6E096GTA	40,499	750
		KW6E120ETA	47,335	KW6E120GTA	48,282	750
	3	KW6E143ETA	52,484	KW6E143GTA	53,536	1030
		KW6E179ETA	71,768	KW6E179GTA	73,202	1030
	4	KW6E216ETA	82,404	KW6E216GTA	84,053	1360
4 FPI	1	KW4E038ETA	20,279	KW4E038GTA	20,685	480
		KW4E048ETA	21,927	KW4E048GTA	22,367	480
	2	KW4E077ETA	38,117	KW4E077GTA	38,880	750
		KW4E097ETA	45,441	KW4E097GTA	46,349	750
	3	KW4E115ETA	50,385	KW4E115GTA	51,394	1,030
		KW4E145ETA	68,897	KW4E145GTA	70,275	1,030
	4	KW4E182ETA	79,107	KW4E182GTA	80,690	1,360

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	EcoNet Control Package ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	6,632	860	440	551	455	914
2	1,623	1,920	6,632	1,070	440	551	455	1,215
3	1,623	2,652	6,632	1,070	440	551	455	1,565
4	1,623	2,652	6,632	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger

Electric Defrost Configurable Base Models - High-Static Fan

	Number of Fans	Three-Phase Motor - High-Static Fan				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6E036EHA	19,640	KW6E036GHA	20,033	480
		KW6E047EHA	23,449	KW6E047GHA	23,917	480
		KW6E059EHA	25,355	KW6E059GHA	25,861	480
	2	KW6E072EHA	34,330	KW6E072GHA	35,016	750
		KW6E096EHA	44,073	KW6E096GHA	44,954	750
		KW6E120EHA	52,541	KW6E120GHA	53,593	750
	3	KW6E143EHA	58,258	KW6E143GHA	59,424	1,030
		KW6E179EHA	79,661	KW6E179GHA	81,254	1,030
	4	KW6E216EHA	91,470	KW6E216GHA	93,297	1,360
4 FPI	1	KW4E038EHA	22,509	KW4E038GHA	22,959	480
		KW4E048EHA	24,339	KW4E048GHA	24,826	480
	2	KW4E077EHA	42,311	KW4E077GHA	43,156	750
		KW4E097EHA	50,440	KW4E097GHA	51,449	750
	3	KW4E115EHA	55,927	KW4E115GHA	57,046	1,030
		KW4E145EHA	76,473	KW4E145GHA	78,005	1,030
	4	KW4E182EHA	87,810	KW4E182GHA	89,567	1,360

Electric Defrost Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)							
	TXV	EEV ³	EcoNet Control Package ⁴	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	6,632	860	440	551	455	914
2	1,623	1,920	6,632	1,070	440	551	455	1,215
3	1,623	2,652	6,632	1,070	440	551	455	1,565
4	1,623	2,652	6,632	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
4. EcoNet Control Package is not available in 50 Hz.
5. Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

WALK-IN UNIT COOLERS



Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger

Hot Gas Defrost Reverse Cycle Configurable Base Models - Standard Fan - Electric Heater

	Number of Fans	Three-Phase Motor - Standard Fan - Electric Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6G036ETA	17,517	KW6G036GTA	17,867	480
		KW6G047ETA	20,914	KW6G047GTA	21,332	480
		KW6G059ETA	22,612	KW6G059GTA	23,065	480
	2	KW6G072ETA	30,618	KW6G072GTA	31,231	750
		KW6G096ETA	39,307	KW6G096GTA	40,093	750
		KW6G120ETA	46,861	KW6G120GTA	47,798	750
	3	KW6G143ETA	51,961	KW6G143GTA	52,999	1,030
		KW6G179ETA	71,049	KW6G179GTA	72,472	1,030
	4	KW6G216ETA	81,579	KW6G216GTA	83,211	1,360
4 FPI	1	KW4G038ETA	20,078	KW4G038GTA	20,480	480
		KW4G048ETA	21,708	KW4G048GTA	22,142	480
	2	KW4G077ETA	37,736	KW4G077GTA	38,490	750
		KW4G097ETA	44,987	KW4G097GTA	45,886	750
	3	KW4G115ETA	49,882	KW4G115GTA	50,879	1,030
		KW4G145ETA	68,208	KW4G145GTA	69,574	1,030
	4	KW4G182ETA	78,316	KW4G182GTA	79,883	1,360

Hot Gas Defrost Reverse Cycle Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)					
	TXV, LLSV and Check Valve ³	EEV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	2,638	1,920	440	551	455	914
2	3,508	1,920	440	551	455	1,215
3	3,508	2,652	440	551	455	1,565
4	3,667	2,652	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV and Check Valve must also be ordered.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost Reverse Cycle Configurable Base Models - Standard Fan - Hot Gas Heater

	Number of Fans	Three-Phase Motor - Standard Fan - Hot Gas Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6L036ETA	17,779	KW6L036GTA	18,135	480
		KW6L047ETA	21,225	KW6L047GTA	21,653	480
		KW6L059ETA	22,953	KW6L059GTA	23,411	480
	2	KW6L072ETA	31,079	KW6L072GTA	31,702	750
		KW6L096ETA	39,896	KW6L096GTA	40,695	750
		KW6L120ETA	47,565	KW6L120GTA	48,517	750
	3	KW6L143ETA	52,741	KW6L143GTA	53,796	1030
		KW6L179ETA	72,118	KW6L179GTA	73,559	1030
	4	KW6L216ETA	82,804	KW6L216GTA	84,460	1360
4 FPI	1	KW4L038ETA	20,378	KW4L038GTA	20,786	480
		KW4L048ETA	22,031	KW4L048GTA	22,473	480
	2	KW4L077ETA	38,302	KW4L077GTA	39,068	750
		KW4L097ETA	45,662	KW4L097GTA	46,576	750
	3	KW4L115ETA	50,630	KW4L115GTA	51,643	1,030
		KW4L145ETA	69,231	KW4L145GTA	70,616	1,030
	4	KW4L182ETA	79,492	KW4L182GTA	81,082	1,360

Hot Gas Defrost Reverse Cycle Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)					
	TXV, LLSV and Check Valve ³	EEV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	2,638	1,920	440	551	455	914
2	3,508	1,920	440	551	455	1,215
3	3,508	2,652	440	551	455	1,565
4	3,667	2,652	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV and Check Valve must also be ordered.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

KRAMER

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost Reverse Cycle Configurable Base Models - High-Static Fan - Electric Heater

	Number of Fans	Three-Phase Motor - High-Static Fan - Electric Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6G036EHA	19,442	KW6G036GHA	19,831	480
		KW6G047EHA	23,213	KW6G047GHA	23,679	480
		KW6G059EHA	25,100	KW6G059GHA	25,600	480
	2	KW6G072EHA	33,987	KW6G072GHA	34,666	750
		KW6G096EHA	43,632	KW6G096GHA	44,504	750
		KW6G120EHA	52,017	KW6G120GHA	53,057	750
	3	KW6G143EHA	57,676	KW6G143GHA	58,830	1,030
		KW6G179EHA	78,866	KW6G179GHA	80,444	1,030
	4	KW6G216EHA	90,554	KW6G216GHA	92,364	1,360
4 FPI	1	KW4G038EHA	22,285	KW4G038GHA	22,731	480
		KW4G048EHA	24,095	KW4G048GHA	24,577	480
	2	KW4G077EHA	41,887	KW4G077GHA	42,725	750
		KW4G097EHA	49,936	KW4G097GHA	50,935	750
	3	KW4G115EHA	55,369	KW4G115GHA	56,476	1,030
		KW4G145EHA	75,711	KW4G145GHA	77,226	1,030
	4	KW4G182EHA	86,931	KW4G182GHA	88,670	1,360

Hot Gas Defrost Reverse Cycle Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)					
	TXV, LLSV and Check Valve ³	EEV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	2,638	1,920	440	551	455	914
2	3,508	1,920	440	551	455	1,215
3	3,508	2,652	440	551	455	1,565
4	3,667	2,652	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV and Check Valve must also be ordered.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost Reverse Cycle Configurable Base Models - High-Static Fan - Hot Gas Heater

Number of Fans		Three-Phase Motor - High-Static Fan - Hot Gas Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6L036EHA	19,735	KW6L036GHA	20,130	480
		KW6L047EHA	23,561	KW6L047GHA	24,035	480
		KW6L059EHA	25,476	KW6L059GHA	25,985	480
	2	KW6L072EHA	34,498	KW6L072GHA	35,187	750
		KW6L096EHA	44,286	KW6L096GHA	45,170	750
		KW6L120EHA	52,796	KW6L120GHA	53,853	750
	3	KW6L143EHA	58,541	KW6L143GHA	59,714	1,030
		KW6L179EHA	80,049	KW6L179GHA	81,650	1,030
4	KW6L216EHA	91,912	KW6L216GHA	93,751	1,360	
4 FPI	1	KW4L038EHA	22,621	KW4L038GHA	23,074	480
		KW4L048EHA	24,456	KW4L048GHA	24,945	480
	2	KW4L077EHA	42,514	KW4L077GHA	43,367	750
		KW4L097EHA	50,685	KW4L097GHA	51,698	750
	3	KW4L115EHA	56,198	KW4L115GHA	57,324	1,030
		KW4L145EHA	76,846	KW4L145GHA	78,385	1,030
	4	KW4L182EHA	88,235	KW4L182GHA	90,002	1,360

Hot Gas Defrost Reverse Cycle Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)					
	TXV, LLSV and Check Valve ³	EEV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	2,638	1,920	440	551	455	914
2	3,508	1,920	440	551	455	1,215
3	3,508	2,652	440	551	455	1,565
4	3,667	2,652	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. If ordering a factory mounted TXV with a Hot Gas Defrost Reverse Cycle unit, a factory mounted LLSV and Check Valve must also be ordered.
4. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

KRAMER

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost 3-Pipe Configurable Base Models - Standard Fan - Electric Heater

	Number of Fans	Three-Phase Motor - Standard Fan - Electric Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6H036ETA	17,517	KW6H036GTA	17,867	480
		KW6H047ETA	20,914	KW6H047GTA	21,332	480
		KW6H059ETA	22,612	KW6H059GTA	23,065	480
	2	KW6H072ETA	30,618	KW6H072GTA	31,231	750
		KW6H096ETA	39,307	KW6H096GTA	40,093	750
		KW6H120ETA	46,861	KW6H120GTA	47,798	750
	3	KW6H143ETA	51,961	KW6H143GTA	52,999	1,030
		KW6H179ETA	71,049	KW6H179GTA	72,472	1,030
	4	KW6H216ETA	81,579	KW6H216GTA	83,211	1,360
4 FPI	1	KW4H038ETA	20,078	KW4H038GTA	20,480	480
		KW4H048ETA	21,708	KW4H048GTA	22,142	480
	2	KW4H077ETA	37,736	KW4H077GTA	38,490	750
		KW4H097ETA	44,987	KW4H097GTA	45,886	750
	3	KW4H115ETA	49,882	KW4H115GTA	50,879	1,030
		KW4H145ETA	68,208	KW4H145GTA	69,574	1,030
	4	KW4H182ETA	78,316	KW4H182GTA	79,883	1,360

Hot Gas Defrost 3-Pipe Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	860	440	551	455	914
2	1,623	1,920	1,070	440	551	455	1,215
3	1,623	2,652	1,070	440	551	455	1,565
4	1,623	2,652	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost 3-Pipe Configurable Base Models - Standard Fan - Hot Gas Heater

	Number of Fans	Three-Phase Motor - Standard Fan - Hot Gas Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6K036ETA	17,779	KW6K036GTA	18,135	480
		KW6K047ETA	21,225	KW6K047GTA	21,653	480
		KW6K059ETA	22,953	KW6K059GTA	23,411	480
	2	KW6K072ETA	31,079	KW6K072GTA	31,702	750
		KW6K096ETA	39,896	KW6K096GTA	40,695	750
		KW6K120ETA	47,565	KW6K120GTA	48,517	750
	3	KW6K143ETA	52,741	KW6K143GTA	53,796	1,030
		KW6K179ETA	72,118	KW6K179GTA	73,559	1,030
4	KW6K216ETA	82,804	KW6K216GTA	84,460	1,360	
4 FPI	1	KW4K038ETA	20,378	KW4K038GTA	20,786	480
		KW4K048ETA	22,031	KW4K048GTA	22,473	480
	2	KW4K077ETA	38,302	KW4K077GTA	39,068	750
		KW4K097ETA	45,662	KW4K097GTA	46,576	750
	3	KW4K115ETA	50,630	KW4K115GTA	51,643	1,030
		KW4K145ETA	69,231	KW4K145GTA	70,616	1,030
	4	KW4K182ETA	79,492	KW4K182GTA	81,082	1,360

Hot Gas Defrost 3-Pipe Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	860	440	551	455	914
2	1,623	1,920	1,070	440	551	455	1,215
3	1,623	2,652	1,070	440	551	455	1,565
4	1,623	2,652	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

KRAMER

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost 3-Pipe Configurable Base Models - High-Static Fan - Electric Heater

	Number of Fans	Three-Phase Motor - Standard Fan - Electric Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6H036EHA	19,442	KW6H036GHA	19,831	480
		KW6H047EHA	23,213	KW6H047GHA	23,679	480
		KW6H059EHA	25,100	KW6H059GHA	25,600	480
	2	KW6H072EHA	33,987	KW6H072GHA	34,666	750
		KW6H096EHA	43,632	KW6H096GHA	44,504	750
		KW6H120EHA	52,017	KW6H120GHA	53,057	750
	3	KW6H143EHA	57,676	KW6H143GHA	58,830	1,030
		KW6H179EHA	78,866	KW6H179GHA	80,444	1,030
	4	KW6H216EHA	90,554	KW6H216GHA	92,364	1,360
4 FPI	1	KW4H038EHA	22,285	KW4H038GHA	22,731	480
		KW4H048EHA	24,095	KW4H048GHA	24,577	480
	2	KW4H077EHA	41,887	KW4H077GHA	42,725	750
		KW4H097EHA	49,936	KW4H097GHA	50,935	750
	3	KW4H115EHA	55,369	KW4H115GHA	56,476	1,030
		KW4H145EHA	75,711	KW4H145GHA	77,226	1,030
	4	KW4H182EHA	86,931	KW4H182GHA	88,670	1,360

Hot Gas Defrost 3-Pipe Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	860	440	551	455	914
2	1,623	1,920	1,070	440	551	455	1,215
3	1,623	2,652	1,070	440	551	455	1,565
4	1,623	2,652	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Warehouse Unit Coolers

Warehouse Unit Coolers are designed exclusively for Applications 3,000 sq. ft and larger
Hot Gas Defrost 3-Pipe Configurable Base Models - High-Static Fan - Hot Gas Heater

	Number of Fans	Three-Phase Motor - High-Static Fan - Hot Gas Drain Pan Heater				Approx. Ship Weight (lbs)
		208-230/3/60		460/3/60		
		Model Number	List Price (\$US)	Model Number	List Price (\$US)	
6 FPI	1	KW6K036EHA	19,735	KW6K036GHA	20,130	480
		KW6K047EHA	23,561	KW6K047GHA	24,035	480
		KW6K059EHA	25,476	KW6K059GHA	25,985	480
	2	KW6K072EHA	34,498	KW6K072GHA	35,187	750
		KW6K096EHA	44,286	KW6K096GHA	45,170	750
		KW6K120EHA	52,796	KW6K120GHA	53,853	750
	3	KW6K143EHA	58,541	KW6K143GHA	59,714	1,030
		KW6K179EHA	80,049	KW6K179GHA	81,650	1,030
4	KW6K216EHA	91,912	KW6K216GHA	93,751	1,360	
4 FPI	1	KW4K038EHA	22,621	KW4K038GHA	23,074	480
		KW4K048EHA	24,456	KW4K048GHA	24,945	480
	2	KW4K077EHA	42,514	KW4K077GHA	43,367	750
		KW4K097EHA	50,685	KW4K097GHA	51,698	750
	3	KW4K115EHA	56,198	KW4K115GHA	57,324	1,030
		KW4K145EHA	76,846	KW4K145GHA	78,385	1,030
	4	KW4K182EHA	88,235	KW4K182GHA	90,002	1,360

Hot Gas Defrost 3-Pipe Configurable Options

Number of Fans	Factory Mounted Options - List Price Adder (\$US)						
	TXV	EEV ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	946	1,920	860	440	551	455	914
2	1,623	1,920	1,070	440	551	455	1,215
3	1,623	2,652	1,070	440	551	455	1,565
4	1,623	2,652	1,230	440	551	455	1,797

1. Shipped-Loose Accessories are found on Page 51
2. Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow & Electrofin) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.
3. Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS



Warehouse Unit Coolers

Shipped-Loose Accessories

Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,270
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	414
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	535

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,482
	16 to 25 Tons	2,127
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	485
	4 to 9 Tons	620
	10 to 30 Tons	1,078
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	410
	4 thru 8 HP	458
	9 thru 10 HP	664
	12 thru 15 HP	816
	22 HP	1,041

Heat Exchangers

Part Number	Model Number	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	229
HX-50	105065003	13	3/8	5/8	269
HX-75	105065004	14	3/8	7/8	369
HX-100	105065005	14	3/8	1-1/8	471
HX-150	105065006	14	1/2	1-1/8	544
HX-250	105065007	14	5/8	1-3/8	750
HX-350	105065008	16	5/8	1-5/8	770
HX-500	105065009	17	7/8	2-1/8	1,221
LHX-15	105065010	30	7/8	2-1/8	3,351
LHX-20	105065011	30	1-1/8	2-1/8	3,585
LHX-25	105065012	30	1-1/8	2-5/8	3,839

Next-Gen Kompact - 1/2-6 HP Condensing Units

Next-Gen Kompact models are ideally suited for use in a variety of commercial applications such as cafeterias, convenience stores, restaurants and fast food outlets while providing the versatility to excel in a full array of other applications. The 1/2-6 HP product line provides a winning combination of high quality, increased flexibility and greatly improved efficiency for even lower long-term operating costs.

The small profile product line is designed to utilize R404A or other low GWP refrigerants R407A, R407C, R448A and R449A. Units are available with hermetic or scroll compressors. The standard rated for operation in ambient air temperatures up to 110° F.



STANDARD FEATURES

- Hermetic or Scroll Compressors
- All-weather - Galvanized steel painted housing
- Generously sized high efficiency condenser, enhanced copper tubes/aluminum fins
- Integral Liquid Subcooling Circuit provides subcooled liquid to the expansion device
- Base mounted shut-off valves placed external to cabinet for easy access
- Liquid line kit with filter/drier and sight glass with moisture indicator
- Suction line piping
- Larger electrical panel with hinged/removable door
- Color coded point-to-point wiring
- Crankcase heater
- Refrigerant receiver with isolation valve and pressure relief plug
- “A” Vintage Units feature PSC Motors, “B” Vintage Units feature High Efficiency Motors
- Encapsulated high pressure (auto reset) and low pressure (auto reset) controls (adjustable low pressure control is standard on low temperature models)
- Electronic defrost timer with defrost contactor/ relay on low temperature standard models (2 evaps. maximum)
- Electronic air defrost timer (Medium temperature standard models only)
- **Flooded models include flooded head pressure control**
- **Non-flooded models include mild ambient fan cycle control**

Next-Gen Kompact Nomenclature:

CONFIGURABLE BASE MODEL								PRE-CONFIGURATION CODES ³
K	F	H	150	E	4S	D	A	NT
Brand	Style	Compressor Style	Horsepower	Temperature Range	Refrigerant Type	Voltage Code	Vintage ²	Pre-Assembly Code
K - Kramer	F - Flooded B - Non-Flooded	H - Hermetic O - Scroll		E - Extended Medium L - Low M - Medium	44 - R404A Only 4S - Multiple Refrigerants	D - 208-230/1/60 E - 208-230/3/60 G - 460/3/60 M - 200-220/1/50 ¹ N - 200-220/3/50 ¹ Q - 380/3/50 ¹	A or B	NT - No Defrost Timer / Kit ⁴ ALNT - Adjustable Low Pressure Control and No Defrost Timer ⁵

Note(s):

1. 50 Hz available. Contact Factory for additional information.
2. A Vintage has standard PSC motor(s). B Vintage has standard High Efficiency motors For specific model number vintages, please refer to following price tables or contact factory.
3. Pre-Configuration Codes are used to show common Factory Mounted options. Pre-Configuration Codes are not available for every model. For specific model availability, see the respective Pre-Configuration pricing tables or contact your local sales representative.
4. “NT” pre-configuration code is available on Flooded Models with 208-230/1/60 or 208-230/3/60 voltage.
5. “ALNT” pre-configuration code is available on Flooded Medium/Extended Medium Temperature models with 208-230/1/60 or 208-230/3/60 voltage. Please note, Adjustable Low Pressure Controls are standard on Low Temperature W-Series Models.

For specific model DOE AWEF values in a given application, please refer to this product line’s corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Hermetic Compressor - Configurable Base Models - 208-230/1/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXTENDED MEDIUM TEMPERATURE	FM1	0.50	RST45C1E	KFH055E4SDB	Air Defrost Timer	10,044	–	155	152
		0.75	RST55C1E	KFH080E4SDB	Air Defrost Timer	10,128	–	155	156
		1.00	RST70C1E	KFH100E4SDB	Air Defrost Timer	11,269	–	175	167
	FM2	1.25	RST97C1E	KFH125E4SDB	Air Defrost Timer	11,802	–	175	195
		1.50	CS10K6E	KFH150E4SDA	Air Defrost Timer	12,132	706	175	205
		2.00	CS12K6E	KFH200E4SDA	Air Defrost Timer	12,734	706	192	228
	FM3	2.50	CS14K6E	KFH250E4SDA	Air Defrost Timer	13,696	706	192	235
		3.00	CS18K6E	KFH300E4SDA	Air Defrost Timer	14,197	706	210	253
	FM4	3.25	CS20K6E	KFH325E4SDA	Air Defrost Timer	14,347	706	210	273
LOW TEMP.	FM1	1.00	CF04K6E	KFH100L44DA	ED-5	10,990	353	175	195
		1.50	CF06K6E	KFH150L44DA	ED-5	11,036	353	175	195
	FM2	2.00	CF09K6E	KFH200L44DA	ED-7	12,056	706	192	243
	FM3	3.00	CF12K6E	KFH300L44DA	ED-7	15,742	706	210	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69

2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. "–" = Not Available

Non-Flooded - Hermetic Compressor - Configurable Base Models - 208-230/1/60

Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXTENDED MEDIUM TEMPERATURE	FM1	0.50	RST45C1E	KBH055E4SDB	Air Defrost Timer	9,409	–	155	152
		0.75	RST55C1E	KBH080E4SDB	Air Defrost Timer	9,533	–	155	156
		1.00	RST70C1E	KBH100E4SDB	Air Defrost Timer	10,566	–	175	167
	FM2	1.25	RST97C1E	KBH125E4SDB	Air Defrost Timer	11,083	–	175	195
		1.50	CS10K6E	KBH150E4SDA	Air Defrost Timer	11,422	706	175	205
		2.00	CS12K6E	KBH200E4SDA	Air Defrost Timer	12,042	706	192	228
	FM3	2.50	CS14K6E	KBH250E4SDA	Air Defrost Timer	12,949	706	192	235
		3.00	CS18K6E	KBH300E4SDA	Air Defrost Timer	13,289	706	210	253
	FM4	3.25	CS20K6E	KBH325E4SDB	Air Defrost Timer	13,679	–	210	273
LOW TEMP.	FM1	1.00	CF04K6E	KBH100L44DB	ED-5	10,420	–	175	195
		1.50	CF06K6E	KBH150L44DB	ED-5	10,465	–	175	195
	FM2	2.00	CF09K6E	KBH200L44DA	ED-7	11,483	706	173	243
	FM3	3.00	CF12K6E	KBH300L44DA	ED-7	15,093	706	192	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69

2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. "–" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Hermetic Compressor - 208-230/1/60

No Defrost Provisions Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and No Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
EXTENDED MEDIUM TEMPERATURE	FM1	0.50	RST45C1E	KFH055E4SDBNT	9,281	155	152
		0.75	RST55C1E	KFH080E4SDBNT	9,365	155	156
		1.00	RST70C1E	KFH100E4SDBNT	10,506	175	167
	FM2	1.25	RST97C1E	KFH125E4SDBNT	11,039	175	195
		1.50	CS10K6E	KFH150E4SDANT	11,369	175	205
		2.00	CS12K6E	KFH200E4SDANT	11,971	192	228
	FM3	2.50	CS14K6E	KFH250E4SDANT	12,933	192	235
		3.00	CS18K6E	KFH300E4SDANT	13,434	210	253
	FM4	3.25	CS20K6E	KFH325E4SDANT	13,584	210	273
	LOW TEMP.	1.00	CF04K6E	KFH100L44DANT	10,070	175	195
		1.50	CF06K6E	KFH150L44DANT	10,116	175	195
		2.00	CF09K6E	KFH200L44DANT	11,136	192	243
		3.00	CF12K6E	KFH300L44DANT	14,822	210	255

Flooded - Hermetic Compressor - 208-230/1/60

No Defrost Timer with Adjustable Low Pressure Control Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator Adjustable Low Pressure Control and No Defrost Timer

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
EXTENDED MEDIUM TEMPERATURE	FM1	0.50	RST45C1E	KFH055E4SDBALNT	10,599	155	152
		0.75	RST55C1E	KFH080E4SDBALNT	11,126	155	156
		1.00	RST70C1E	KFH100E4SDBALNT	11,550	175	167
	FM2	1.25	RST97C1E	KFH125E4SDBALNT	12,426	175	195
		1.50	CS10K6E	KFH150E4SDAALNT	12,928	175	205
		2.00	CS12K6E	KFH200E4SDAALNT	13,427	192	228
	FM3	2.50	CS14K6E	KFH250E4SDAALNT	13,522	192	235
		3.00	CS18K6E	KFH300E4SDAALNT	13,654	210	253
	FM4	3.25	CS20K6E	KFH325E4SDAALNT	13,804	210	273

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Hermetic Compressor - Configurable Base Models - 208-230/3/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXT. MEDIUM TEMP.	FM1	1.00	RST70C1E	KFH100E4SEB	Air Defrost Timer	11,142	–	175	167
	FM2	1.25	RST97C1E	KFH125E4SEB	Air Defrost Timer	11,669	–	175	195
		1.50	CS10K6E	KFH150E4SEA	Air Defrost Timer	12,093	706	175	205
		2.00	CS12K6E	KFH200E4SEA	Air Defrost Timer	12,969	706	192	228
	FM3	2.50	CS14K6E	KFH250E4SEA	Air Defrost Timer	13,471	706	192	235
		3.00	CS18K6E	KFH300E4SEA	Air Defrost Timer	13,970	706	210	253
	FM4	3.25	CS20K6E	KFH325E4SEA	Air Defrost Timer	14,065	706	210	273
LOW TEMP.	FM1	1.00	CF04K6E	KFH100L44EA	ED-5	11,172	353	175	195
		1.50	CF06K6E	KFH150L44EA	ED-5	11,229	706	175	195
	FM2	2.00	CF09K6E	KFH200L44EA	ED-7	12,566	706	192	243
	FM3	3.00	CF12K6E	KFH300L44EA	ED-7	15,958	706	210	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. “–” = Not Available

Non-Flooded - Hermetic Compressor - Configurable Base Models - 208-230/3/60

Includes Liquid Line Kit with Filter/Drier; Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXT. MEDIUM TEMP.	FM1	1.00	RST70C1E	KBH100E4SEB	Air Defrost Timer	10,437	–	175	167
	FM2	1.25	RST97C1E	KBH125E4SEB	Air Defrost Timer	10,977	–	175	195
		1.50	CS10K6E	KBH150E4SEA	Air Defrost Timer	11,411	706	175	205
		2.00	CS12K6E	KBH200E4SEA	Air Defrost Timer	12,260	706	192	228
	FM3	2.50	CS14K6E	KBH250E4SEA	Air Defrost Timer	12,724	706	192	235
		3.00	CS18K6E	KBH300E4SEA	Air Defrost Timer	13,051	706	210	253
	FM4	3.25	CS20K6E	KBH325E4SEB	Air Defrost Timer	13,407	–	210	273
LOW TEMP.	FM1	1.00	CF04K6E	KBH100L44EB	ED-5	10,480	–	175	195
		1.50	CF06K6E	KBH150L44EB	ED-5	10,543	–	175	195
	FM2	2.00	CF09K6E	KBH200L44EA	ED-7	11,851	706	192	243
	FM3	3.00	CF12K6E	KBH300L44EA	ED-7	15,321	706	210	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. “–” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Hermetic Compressor - 208-230/3/60

No Defrost Provisions Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and No Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
EXT. MEDIUM TEMP	FM1	1.00	RST70C1E	KFH100E4SEBNT	10,379	175	167
	FM2	1.25	RST97C1E	KFH125E4SEBNT	10,906	175	195
		1.50	CS10K6E	KFH150E4SEANT	11,330	175	205
		2.00	CS12K6E	KFH200E4SEANT	12,206	192	228
	FM3	2.50	CS14K6E	KFH250E4SEANT	12,708	192	235
		3.00	CS18K6E	KFH300E4SEANT	13,207	210	253
	FM4	3.25	CS20K6E	KFH325E4SEANT	13,302	210	273
LOW TEMP.	FM1	1.00	CF04K6E	KFH100L44EANT	10,249	175	195
		1.50	CF06K6E	KFH150L44EANT	10,306	175	195
	FM2	2.00	CF09K6E	KFH200L44EANT	11,643	192	243
	FM3	3.00	CF12K6E	KFH300L44EANT	15,035	210	255

Flooded - Hermetic Compressor - 208-230/3/60

No Defrost Timer with Adjustable Low Pressure Control Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator Adjustable Low Pressure Control and No Defrost Timer

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
EXT. MEDIUM TEMP	FM1	1.00	RST70C1E	KFH100E4SEBALNT	10,599	175	167
	FM2	1.25	RST97C1E	KFH125E4SEBALNT	11,126	175	195
		1.50	CS10K6E	KFH150E4SEALNT	11,550	175	205
		2.00	CS12K6E	KFH200E4SEALNT	12,426	192	228
	FM3	2.50	CS14K6E	KFH250E4SEALNT	12,928	192	235
		3.00	CS18K6E	KFH300E4SEALNT	13,427	210	253
	FM4	3.25	CS20K6E	KFH325E4SEALNT	13,522	210	273

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Hermetic Compressor - Configurable Base Models - 460/3/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	460/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXT. MED. TEMP.	FM2	1.50	CS10K6E	KFH150E4SGA	Air Defrost Timer	12,848	706	175	205
	FM3	2.50	CS14K6E	KFH250E4SGA	Air Defrost Timer	14,887	706	192	235
		3.00	CS18K6E	KFH300E4SGA	Air Defrost Timer	15,213	706	210	253
	FM4	3.25	CS20K6E	KFH325E4SGA	Air Defrost Timer	15,534	706	210	273
LOW TEMP.	FM1	1.50	CF06K6E	KFH150L44GA	ED-17	11,687	706	175	195
	FM2	2.00	CF09K6E	KFH200L44GA	ED-17	12,768	706	192	243
	FM3	3.00	CF12K6E	KFH300L44GA	ED-17	16,729	706	210	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
 2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.
- “-” = Not Available

Non-Flooded - Hermetic Compressor - Configurable Base Models - 460/3/60

Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	460/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXT. MED. TEMP.	FM2	1.50	CS10K6E	KBH150E4SGA	Air Defrost Timer	12,026	706	175	205
	FM3	2.50	CS14K6E	KBH250E4SGA	Air Defrost Timer	14,144	706	192	235
		3.00	CS18K6E	KBH300E4SGA	Air Defrost Timer	14,513	706	210	253
	FM4	3.25	CS20K6E	KBH325E4SGB	Air Defrost Timer	14,882	—	210	273
LOW TEMP.	FM2	2.00	CF09K6E	KBH200L44GA	ED-17	12,099	706	192	243
	FM3	3.00	CF12K6E	KBH300L44GA	ED-17	16,079	706	210	255

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
 2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.
- “-” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - Configurable Base Models - 208-230/1/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
MED. TEMP.	FM1	0.5	ZB06KAE	KFO060M4SDA	Air Defrost Timer	10,457	353	286	195
		0.75	ZB07KAE	KFO080M4SDA	Air Defrost Timer	11,042	353	286	195
		1.0	ZB08KAE	KFO100M4SDA	Air Defrost Timer	11,249	353	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SDA	Air Defrost Timer	11,910	353	286	195
		1.25	ZS11KAE	KFO150E4SDA	Air Defrost Timer	11,990	706	286	205
		1.5	ZS13KAE	KFO180E4SDA	Air Defrost Timer	13,263	706	286	210
	FM3	2.0	ZS15KAE	KFO200E4SDA	Air Defrost Timer	13,277	706	286	215
		2.5	ZS19KAE	KFO250E4SDA	Air Defrost Timer	13,529	706	286	230
	FM4	3.0	ZS21KAE	KFO300E4SDA	Air Defrost Timer	14,480	706	374	305
		3.5	ZS26KAE	KFO350E4SDA	Air Defrost Timer	15,905	706	374	325
		4.0	ZS29KAE	KFO400E4SDA	Air Defrost Timer	16,123	706	392	352
		4.5	ZS33KAE	KFO450E4SDA	Air Defrost Timer	17,398	706	392	375
		5.0	ZS38K4E	KFO500E4SDA	Air Defrost Timer	18,204	706	402	383
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SDA	ED-5	12,053	353	286	195
		1.3	ZF04KAE	KFO130L4SDA	ED-5	12,577	353	286	195
		1.5	ZF05KAE	KFO160L4SDA	ED-5	13,141	353	286	195
	FM2	2.3	ZF07K4E	KFO230L4SDA	ED-7	13,943	706	286	230
	FM3	2.5	ZF08K4E	KFO250L4SDA	ED-7	15,058	706	286	240
		3.0	ZF09K4E	KFO300L4SDA	ED-7	15,596	706	374	245
		3.5	ZF11K4E	KFO350L4SDA	ED-10	17,231	706	374	255
	FM4	4.0	ZF13K4E	KFO400L4SDB	ED-10	19,415	–	392	352
		5.0	ZF15K4E	KFO500L4SDB	ED-10	20,062	–	402	367

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.

“–” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Non-Flooded - Scroll Compressor - Configurable Base Models - 208-230/1/60

Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
MED. TEMP.	FM1	0.5	ZB06KAE	KBO060M4SDB	Air Defrost Timer	9,937	–	286	195
		0.75	ZB07KAE	KBO080M4SDB	Air Defrost Timer	10,522	–	286	195
		1.0	ZB08KAE	KBO100M4SDB	Air Defrost Timer	10,723	–	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KBO130E4SDB	Air Defrost Timer	11,323	–	286	195
		1.25	ZS11KAE	KBO150E4SDA	Air Defrost Timer	11,411	706	286	205
		1.5	ZS13KAE	KBO180E4SDA	Air Defrost Timer	12,420	706	286	210
	FM3	2.0	ZS15KAE	KBO200E4SDA	Air Defrost Timer	12,642	706	286	215
		2.5	ZS19KAE	KBO250E4SDA	Air Defrost Timer	12,886	706	286	230
	FM4	3.0	ZS21KAE	KBO300E4SDB	Air Defrost Timer	13,940	–	374	305
		3.5	ZS26KAE	KBO350E4SDB	Air Defrost Timer	15,271	–	374	325
		4.0	ZS29KAE	KBO400E4SDB	Air Defrost Timer	15,506	–	392	352
		4.5	ZS33KAE	KBO450E4SDB	Air Defrost Timer	16,811	–	392	375
		5.0	ZS38K4E	KBO500E4SDB	Air Defrost Timer	17,661	–	402	383
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KBO100L4SDB	ED-5	11,400	–	286	195
		1.3	ZF04KAE	KBO130L4SDB	ED-5	11,969	–	286	195
		1.5	ZF05KAE	KBO160L4SDB	ED-5	12,562	–	286	195
	FM2	2.3	ZF07K4E	KBO230L4SDA	ED-7	13,397	706	286	230
	FM3	2.5	ZF08K4E	KBO250L4SDA	ED-7	14,535	706	286	240
		3.0	ZF09K4E	KBO300L4SDA	ED-7	15,421	706	374	245
		3.5	ZF11K4E	KBO350L4SDA	ED-10	16,657	706	374	255
	FM4	4.0	ZF13K4E	KBO400L4SDB	ED-10	18,893	–	392	352
		5.0	ZF15K4E	KBO500L4SDB	ED-10	19,451	–	402	367

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.

“–” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - 208-230/1/60

No Defrost Provisions Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and No Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
MED. TEMP.	FM1	0.5	ZB06KAE	KFO060M4SDANT	9,694	286	195
		0.75	ZB07KAE	KFO080M4SDANT	10,279	286	195
		1.0	ZB08KAE	KFO100M4SDANT	10,486	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SDANT	11,147	286	195
		1.25	ZS11KAE	KFO150E4SDANT	11,227	286	205
		1.5	ZS13KAE	KFO180E4SDANT	12,500	286	210
	FM3	2.0	ZS15KAE	KFO200E4SDANT	12,514	286	215
		2.5	ZS19KAE	KFO250E4SDANT	12,766	286	230
	FM4	3.0	ZS21KAE	KFO300E4SDANT	13,717	374	305
		3.5	ZS26KAE	KFO350E4SDANT	15,142	374	325
		4.0	ZS29KAE	KFO400E4SDANT	15,360	392	352
		4.5	ZS33KAE	KFO450E4SDANT	16,635	392	375
		5.0	ZS38K4E	KFO500E4SDANT	17,441	402	383
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SDANT	11,133	286	195
		1.3	ZF04KAE	KFO130L4SDANT	11,657	286	195
		1.5	ZF05KAE	KFO160L4SDANT	12,221	286	195
	FM2	2.3	ZF07K4E	KFO230L4SDANT	13,023	286	230
	FM3	2.5	ZF08K4E	KFO250L4SDANT	14,138	286	240
		3.0	ZF09K4E	KFO300L4SDANT	14,676	374	245
		3.5	ZF11K4E	KFO350L4SDANT	16,311	374	255
	FM4	4.0	ZF13K4E	KFO400L4SDBNT	18,495	392	352
		5.0	ZF15K4E	KFO500L4SDBNT	19,142	402	367

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - 208-230/1/60

No Defrost Timer with Adjustable Low Pressure Control Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator Adjustable Low Pressure Control and No Defrost Timer

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/1/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
MED. TEMP.	FM1	0.5	ZB06KAE	KFO060M4SDAALNT	9,914	286	195
		0.75	ZB07KAE	KFO080M4SDAALNT	10,499	286	195
		1.0	ZB08KAE	KFO100M4SDAALNT	10,706	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SDAALNT	11,367	286	195
		1.25	ZS11KAE	KFO150E4SDAALNT	11,447	286	205
		1.5	ZS13KAE	KFO180E4SDAALNT	12,720	286	210
	FM3	2.0	ZS15KAE	KFO200E4SDAALNT	12,734	286	215
		2.5	ZS19KAE	KFO250E4SDAALNT	12,986	286	230
	FM4	3.0	ZS21KAE	KFO300E4SDAALNT	13,937	374	305
		3.5	ZS26KAE	KFO350E4SDAALNT	15,362	374	325
		4.0	ZS29KAE	KFO400E4SDAALNT	15,580	392	352
		4.5	ZS33KAE	KFO450E4SDAALNT	16,855	392	375
		5.0	ZS38K4E	KFO500E4SDAALNT	17,661	402	383

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - Configurable Base Models - 208-230/3/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
MED. TEMP.	FM1	0.5	ZB06KAE	KFO060M4SEA	Air Defrost Timer	10,582	353	286	195
		0.75	ZB07KAE	KFO080M4SEA	Air Defrost Timer	11,333	353	286	195
		1.0	ZB08KAE	KFO100M4SEA	Air Defrost Timer	11,467	353	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SEA	Air Defrost Timer	11,875	353	286	195
		1.25	ZS11KAE	KFO150E4SEA	Air Defrost Timer	12,071	706	286	205
		1.5	ZS13KAE	KFO180E4SEA	Air Defrost Timer	13,044	706	286	210
	FM3	2.0	ZS15KAE	KFO200E4SEA	Air Defrost Timer	13,369	706	286	215
		2.5	ZS19KAE	KFO250E4SEA	Air Defrost Timer	13,705	706	286	230
	FM4	3.0	ZS21KAE	KFO300E4SEA	Air Defrost Timer	14,730	706	374	305
		3.5	ZS26KAE	KFO350E4SEA	Air Defrost Timer	16,155	706	374	325
		4.0	ZS29KAE	KFO400E4SEA	Air Defrost Timer	16,604	706	392	352
		4.5	ZS33KAE	KFO450E4SEA	Air Defrost Timer	17,053	706	392	375
		5.0	ZS38K4E	KFO500E4SEA	Air Defrost Timer	18,405	706	402	383
		6.0	ZS45K4E	KFO600E4SEA	Air Defrost Timer	20,422	706	402	405
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SEA	ED-5	12,214	353	286	195
		1.3	ZF04KAE	KFO130L4SEA	ED-5	12,747	353	286	195
		1.5	ZF05KAE	KFO160L4SEA	ED-5	13,318	353	286	195
	FM2	2.3	ZF07K4E	KFO230L4SEA	ED-5	14,133	706	286	230
		2.5	ZF08K4E	KFO250L4SEA	ED-6	15,327	706	286	240
		3.0	ZF09K4E	KFO300L4SEA	ED-6	15,886	706	374	245
	FM3	3.5	ZF11K4E	KFO350L4SEA	ED-7	17,426	706	374	255
		4.0	ZF13K4E	KFO400L4SEB	ED-7	19,610	–	392	352
		5.0	ZF15K4E	KFO500L4SEB	ED-11	20,171	–	402	367
	FM4	6.0	ZF18K4E	KFO600L4SEB	ED-11	21,342	–	402	383

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. "–" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Non-Flooded - Scroll Compressor - Configurable Base Models - 208-230/3/60

Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
MED. TEMP.	FM1	0.5	ZB06KAE	KBO060M4SEB	Air Defrost Timer	10,055	–	286	195
		0.75	ZB07KAE	KBO080M4SEB	Air Defrost Timer	10,811	–	286	195
		1.0	ZB08KAE	KBO100M4SEB	Air Defrost Timer	10,946	–	286	195
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KBO130E4SEB	Air Defrost Timer	11,338	–	286	195
		1.25	ZS11KAE	KBO150E4SEA	Air Defrost Timer	11,528	706	286	205
		1.5	ZS13KAE	KBO180E4SEA	Air Defrost Timer	12,380	706	286	210
	FM3	2.0	ZS15KAE	KBO200E4SEA	Air Defrost Timer	12,729	706	286	215
		2.5	ZS19KAE	KBO250E4SEA	Air Defrost Timer	13,077	706	286	230
	FM4	3.0	ZS21KAE	KBO300E4SEB	Air Defrost Timer	14,175	–	374	305
		3.5	ZS26KAE	KBO350E4SEB	Air Defrost Timer	15,526	–	374	325
		4.0	ZS29KAE	KBO400E4SEB	Air Defrost Timer	15,985	–	392	352
		4.5	ZS33KAE	KBO450E4SEB	Air Defrost Timer	16,446	–	392	375
		5.0	ZS38K4E	KBO500E4SEB	Air Defrost Timer	17,867	–	402	383
		6.0	ZS45K4E	KBO600E4SEB	Air Defrost Timer	19,717	–	402	405
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KBO100L4SEB	ED-5	11,405	–	286	195
		1.3	ZF04KAE	KBO130L4SEB	ED-5	12,029	–	286	195
		1.5	ZF05KAE	KBO160L4SEB	ED-5	12,667	–	286	195
	FM2	2.3	ZF07K4E	KBO230L4SEA	ED-5	13,581	706	286	230
		2.5	ZF08K4E	KBO250L4SEA	ED-6	14,806	706	286	240
		3.0	ZF09K4E	KBO300L4SEA	ED-6	15,364	706	374	245
	FM3	3.5	ZF11K4E	KBO350L4SEA	ED-7	16,904	706	374	255
		4.0	ZF13K4E	KBO400L4SEB	ED-7	19,089	–	392	352
		5.0	ZF15K4E	KBO500L4SEB	ED-11	19,649	–	402	367
		6.0	ZF18K4E	KBO600L4SEB	ED-11	20,822	–	402	383

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications. "–" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - 208-230/3/60

No Defrost Provisions Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and No Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
MED. TEMP.	FM1	0.5	ZB06KAE	KFO060M4SEANT	9,819	286	195
		0.75	ZB07KAE	KFO080M4SEANT	10,570	286	195
		1.0	ZB08KAE	KFO100M4SEANT	10,704	286	195
EXTENDED MEDIUM TEMPERATURE:	FM2	1.0	ZS09KAE	KFO130E4SEANT	11,112	286	195
		1.25	ZS11KAE	KFO150E4SEANT	11,308	286	205
		1.5	ZS13KAE	KFO180E4SEANT	12,281	286	210
	FM3	2.0	ZS15KAE	KFO200E4SEANT	12,606	286	215
		2.5	ZS19KAE	KFO250E4SEANT	12,942	286	230
	FM4	3.0	ZS21KAE	KFO300E4SEANT	13,967	374	305
		3.5	ZS26KAE	KFO350E4SEANT	15,392	374	325
		4.0	ZS29KAE	KFO400E4SEANT	15,841	392	352
		4.5	ZS33KAE	KFO450E4SEANT	16,290	392	375
		5.0	ZS38K4E	KFO500E4SEANT	17,642	402	383
		6.0	ZS45K4E	KFO600E4SEANT	19,659	402	405
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SEANT	11,294	286	195
		1.3	ZF04KAE	KFO130L4SEANT	11,827	286	195
		1.5	ZF05KAE	KFO160L4SEANT	12,398	286	195
	FM2	2.3	ZF07K4E	KFO230L4SEANT	13,213	286	230
		2.5	ZF08K4E	KFO250L4SEANT	14,407	286	240
	FM3	3.0	ZF09K4E	KFO300L4SEANT	14,966	374	245
		3.5	ZF11K4E	KFO350L4SEANT	16,506	374	255
		4.0	ZF13K4E	KFO400L4SEBNT	18,690	392	352
	FM4	5.0	ZF15K4E	KFO500L4SEBNT	19,251	402	367
		6.0	ZF18K4E	KFO600L4SEBNT	20,422	402	383

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - 208-230/3/60

No Defrost Timer with Adjustable Low Pressure Control Pre-Configured Models

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator Adjustable Low Pressure Control and No Defrost Timer

	Cabinet Size	Nom. H.P.	Compressor Model Number	208-230/3/60		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	List Price (\$US)		
MED. TEMP. EXTENDED MEDIUM TEMPERATURE:	FM1	0.5	ZB06KAE	KFO060M4SEAAALNT	10,039	286	195
		0.75	ZB07KAE	KFO080M4SEAAALNT	10,790	286	195
		1.0	ZB08KAE	KFO100M4SEAAALNT	10,924	286	195
	FM2	1.0	ZS09KAE	KFO130E4SEAAALNT	11,332	286	195
		1.25	ZS11KAE	KFO150E4SEAAALNT	11,528	286	205
		1.5	ZS13KAE	KFO180E4SEAAALNT	12,501	286	210
	FM3	2.0	ZS15KAE	KFO200E4SEAAALNT	12,826	286	215
		2.5	ZS19KAE	KFO250E4SEAAALNT	13,162	286	230
	FM4	3.0	ZS21KAE	KFO300E4SEAAALNT	14,187	374	305
		3.5	ZS26KAE	KFO350E4SEAAALNT	15,612	374	325
		4.0	ZS29KAE	KFO400E4SEAAALNT	16,061	392	352
		4.5	ZS33KAE	KFO450E4SEAAALNT	16,510	392	375
		5.0	ZS38K4E	KFO500E4SEAAALNT	17,862	402	383
		6.0	ZS45K4E	KFO600E4SEAAALNT	19,879	402	405

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Flooded - Scroll Compressor - Configurable Base Models - 460/3/60

Includes Flooded Head Pressure Control Valve, Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	460/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXTENDED MEDIUM TEMPERATURE:	FM1	1.0	ZS09KAE	KFO130E4SGA	Air Defrost Timer	13,071	–	286	195
	FM2	1.25	ZS11KAE	KFO150E4SGA	Air Defrost Timer	13,389	–	286	205
		1.5	ZS13KAE	KFO180E4SGA	Air Defrost Timer	14,032	–	286	210
	FM3	2.0	ZS15KAE	KFO200E4SGA	Air Defrost Timer	14,191	–	286	215
		2.5	ZS19KAE	KFO250E4SGA	Air Defrost Timer	14,391	–	286	230
	FM4	3.0	ZS21KAE	KFO300E4SGA	Air Defrost Timer	15,348	706	374	305
		3.5	ZS26KAE	KFO350E4SGA	Air Defrost Timer	16,728	706	374	325
		4.0	ZS29KAE	KFO400E4SGA	Air Defrost Timer	17,386	706	392	352
		4.5	ZS33KAE	KFO450E4SGA	Air Defrost Timer	18,770	706	392	375
		5.0	ZS38K4E	KFO500E4SGA	Air Defrost Timer	18,975	706	402	383
		6.0	ZS45K4E	KFO600E4SGA	Air Defrost Timer	20,998	706	402	405
LOW TEMPERATURE	FM2	2.3	ZF07K4E	KFO230L4SGA	ED-17	15,330	706	286	230
	FM3	2.5	ZF08K4E	KFO250L4SGA	ED-17	16,526	–	286	240
		3.0	ZF09K4E	KFO300L4SGA	ED-17	16,807	–	374	245
		3.5	ZF11K4E	KFO350L4SGA	ED-17	17,998	–	374	255
	FM4	4.0	ZF13K4E	KFO400L4SGB	ED-17	19,886	–	392	352
		5.0	ZF15K4E	KFO500L4SGB	ED-17	20,504	–	402	367
		6.0	ZF18K4E	KFO600L4SGB	ED-17	21,685	–	402	383

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
 2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.
- “–” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen Kompact - 1/2-6 HP Condensing Units

Non-Flooded - Scroll Compressor - Configurable Base Models - 460/3/60

Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model Number	460/3/60			EC Motor List Price Adder (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
				Model Number	Standard Defrost Provision(s)	List Price (\$US)			
EXTENDED MEDIUM TEMPERATURE	FM2	1.25	ZS11KAE	KBO150E4SGA	Air Defrost Timer	12,846	–	286	205
		1.5	ZS13KAE	KBO180E4SGA	Air Defrost Timer	13,431	–	286	210
	FM3	2.0	ZS15KAE	KBO200E4SGA	Air Defrost Timer	13,589	–	286	215
		2.5	ZS19KAE	KBO250E4SGA	Air Defrost Timer	13,790	–	286	230
	FM4	3.0	ZS21KAE	KBO300E4SGB	Air Defrost Timer	14,826	–	374	305
		3.5	ZS26KAE	KBO350E4SGB	Air Defrost Timer	16,121	–	374	325
		4.0	ZS29KAE	KBO400E4SGB	Air Defrost Timer	16,826	–	392	352
		4.5	ZS33KAE	KBO450E4SGB	Air Defrost Timer	18,029	–	392	375
		5.0	ZS38K4E	KBO500E4SGB	Air Defrost Timer	18,398	–	402	383
		6.0	ZS45K4E	KBO600E4SGB	Air Defrost Timer	20,390	–	402	405
LOW TEMPERATURE	FM2	2.3	ZF07K4E	KBO230L4SGA	ED-17	14,473	–	286	230
	FM3	2.5	ZF08K4E	KBO250L4SGA	ED-17	15,700	–	286	240
		3.0	ZF09K4E	KBO300L4SGA	ED-17	16,213	–	374	245
		3.5	ZF11K4E	KBO350L4SGA	ED-17	17,477	–	374	255
	FM4	4.0	ZF13K4E	KBO400L4SGB	ED-17	19,366	–	392	352
		5.0	ZF15K4E	KBO500L4SGB	ED-17	19,982	–	402	367
		6.0	ZF18K4E	KBO600L4SGB	ED-17	21,164	–	402	383

1. Factory Mounted Options are found on Page 68 & Shipped-Loose Accessories are found on Page 69
 2. An Electric Defrost Kit must be ordered in lieu of the standard Air Defrost Timer when Extended Range Medium Temperature models are used for low temperature applications.
- “–” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Factory Installed Options - General

Option Description	Cabinet Size	List Price Adder (\$US)	
		Medium Temperature	Low Temperature
CRANKCASE HEATER	ALL	STANDARD	
FIXED HIGH/FIXED LOW PRESSURE CONTROL	ALL	STANDARD	–
FIXED HIGH/ADJUSTABLE LOW PRESSURE CONTROL	ALL	220	STANDARD
ADJUSTABLE HIGH/ADJUSTABLE LOW PRESSURE CONTROL	ALL	492	
LIQUID LINE WITH COMPONENTS: SEALED FILTER & SIGHT GLASS	ALL	STANDARD	
LIQUID LINE WITHOUT COMPONENTS: PIPE ONLY	FM1	(443)	
	FM2 - FM4	(525)	
LIQUID LINE WITH PREMIUM COMPONENTS: REPLACEABLE CORE FILTER/DRIER & SIGHT GLASS	FM4	667	
SUCTION LINE COMPONENTS: SEALED FILTER	FM1	471	
	FM2 - FM4	561	
SUCTION LINE COMPONENTS: REPLACEABLE CORE FILTER	FM4	669	
SUCTION LINE ACCUMULATOR (CANNOT BE ORDERED WITHOUT SUCTION LINE COMPONENTS)	FM1	725	
	FM2 - FM4	1,119	
OIL SEPERATOR	FM4	1,906	
OVER-SIZED RECEIVER	FM1	601	
	FM2	717	
	FM3	1,713	
	FM4	1,758	
PUMPDOWN TOGGLE SWITCH	ALL	463	
HEATED AND INSULATED RECEIVER	ALL	982	
PHASE LOSS MONITOR	ALL	1,610	
COPPER FINS OR ELECTRO FIN COATED COIL	ALL	CONTACT FACTORY	
THRU THE DOOR - NON - FUSED - DISCONNECT SWITCH	FM1 - FM2	690	
	FM3 - FM4	917	
EXTERNAL FUSED DISCONNECT (Mounted)	FM1 - FM2	776	
	FM3 - FM4	1,430	
Negative numbers represent the price to be deducted from base price if a standard feature is removed.			

Factory Installed Options - Common Defrost Components

Option Description	Cabinet Size	List Price Adder (\$US)	
		Medium Temperature	Low Temperature
STANDARD (ELECTRONIC) AIR DEFROST TIMER*	ALL	STANDARD	–
REMOVE STANDARD AIR DEFROST TIMER	ALL	(763)	–
STANDARD DEFROST KIT (ED5 - ED11)	ALL	–	STANDARD
SUBSTITUTE STANDARD AIR DEFROST TIMER FOR STANDARD DEFROST KIT (ED5-ED11)	ALL	157	–
REMOVE STANDARD DEFROST KIT	ALL	–	(920)
Negative numbers represent the price to be deducted from base price if a standard feature is removed.			
* Standard Electronic Air Defrost Timer can be substituted with Mechanical Air Defrost Timer at no charge.			
Defrost Kit Descriptions & Additional Defrost Kit Options Available on Pages 69 & 70			

Next-Gen Kompact - 1/2-6 HP Condensing Units

Shipped-Loose Accessories

Option Description	Cabinet Size	List Price (\$US)
CRANKCASE PRESSURE REGULATING VALVE	ALL	CONTACT FACTORY
EXTERNAL FUSED DISCONNECT	FM4	1,311
TWO TIERED STACKING RACK	ALL	CONTACT FACTORY
SNOW / HAIL GUARDS	FM1	537
	FM2	593
	FM3	642
	FM4	786

Electric Defrost Kits - Descriptions

The W-Series Electric Defrost System provides unique features that other defrost systems lack. These energy saving features are as follows:

- The auxiliary switch on 3 phase systems and block-out relays on 1 phase systems prevents the defrost heaters from energizing when the compressor is in operation. This features holds the maximum amp draw to the largest single load that the system will draw, and therefore reduces the electrical service requirement to the condensing unit.
- On multiple evaporator systems, individual defrost contactors are used in conjunction with sequencing relays* to allow each evaporator to terminate defrost independently. This efficient method of defrost saves electricity, and reduces the potential of overheating and steaming the evaporators. In addition, the amount of heat added to the room is kept to a minimum, reducing the run time of the condensing unit.

Kit Number	Timer	Auxiliary Relays	Block-out Relays	† Defrost Heater Contactor (1)	‡ Fan Contactor	Sequencing Relay
ED-5	1	—	1-15A	—	—	—
ED-6	1	—	1-20A	—	—	—
ED-7	1	—	1-25A	—	—	—
ED-10	1	—	1-30A	—	—	—
ED-20	1	—	1-30A	—	—	2
ED-210	1	—	1-30A	—	—	—
ED-17	1	1	—	1-15A	1-25A	—
ED-11	1	1	—	1-30A	—	—
ED-12	1	1	—	1-30A	1-25A	—
ED-14	1	1	—	1-50A	1-25A	—
ED-211	1	1	—	1-30A	—	—
ED-213	1	1	—	1-50A	—	—
ED-21	1	1	—	2-15A	—	2
ED-22	1	1	—	2-15A	1-25A	2
ED-23	1	1	—	2-25A	—	2
ED-24	1	1	—	2-25A	1-25A	2

* Except for ED-210, ED-211, ED-213

† Heater contactor amperage is based on its resistive rating.

‡ Fan motor contactor amperage is based on its inductive rating.

Electric Defrost Kits - Definitions

- Timer** - Initiates the defrost cycle. Also used as override protection for defrost termination.
- Auxiliary Switch** - Mounted on the compressor contactor, it prevents the defrost contactor from operating whenever the compressor is energized.
- Block-out Relay** - Serves the same function as auxiliary switch, except used when defrost contactor is not required (single phase only).
- Fan Contactor** - Used with 460V motors or when 230V motors are wired for 3 phase power.
- Defrost Contactor** - Carries amperage load for heaters. Contactor selection is based on the maximum resistive load rating of the contactor.
- Relays** - Provides interconnection of multiple unit coolers on a single system so that each unit cooler is allowed to individually terminate defrost on temperature.

Next-Gen Kompact - 1/2-6 HP Condensing Units

Electric Defrost Kits - Pricing

Quantity of Unit Coolers	Decription	Defrost Kit Number				List Price Adder (Only Available Mounted)
		1 PH. FANS 1 PH. HTRS	1 PH. FANS 3 PH. HTRS	230V	460V	
				3 PH. FANS 3 PH. HTRS	3 PH. FANS 3 PH. HTRS	
DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/1						
ONE UNIT COOLER PER SYSTEM	Up to 15 Amps Heater (w/ relay)	ED5-A2	–	–	–	920
	20 Amps Heater (w/ relay)	ED6-A2	–	–	–	920
	25 Amps Heater (w/ relay)	ED7-A2	–	–	–	920
	Up to 30 Amps Heater (w/ relay)	ED10-A2	–	–	–	920
	30 Amps - Heater (w/ contactors)	–	ED11-B2	–	–	920
TWO UNIT COOLERS PER SYSTEM	Up to 30 Amps Heater (w/ relay)	ED210-A2	-	–	–	920
	30 Amps Heater	ED211-A2	ED211-B2	–	–	920
	50 Amps Heater	ED213-A2	ED213-B2	–	–	1,847
	Up to 15 Amps Heaters each (w/ relays)	ED20-A2	-	–	–	2,636
	15 Amps Heaters each	ED21-A2	ED21-B2	–	–	2,636
	25 Amps Heaters each (w/ relays)	ED23-A2	-	–	–	2,708
	25 Amps Heaters each (w/ contactors)	–	ED23-B2	–	–	2,708
DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/3, 460/3, OR 460/1.						
ONE UNIT COOLER PER SYSTEM	Up to 25 Amps Heater	ED17-A4	–	–	–	920
	30 Amps Heater	ED12-A4	ED12-BX	ED12-C2	ED12-C4	1,924
	50 Amps Heater	–	ED14-BX	ED14-C2	ED14-C4	2,251
TWO UNIT COOLERS PER SYSTEM	Up to 15 Amps Heaters per Unit Cooler	–	ED22-BX	ED22-C2	ED22-C4	3,237
	25 Amps Heaters per Unit Cooler	–	ED24-BX	ED24-C2	ED24-C4	3,237
NOTE: Defrost Kits are only available Factory Mounted and cannot be Shipped Loose.						

Defrost Kit Nomenclature:

ED	1	2
Kit Designator	Unit Coolers per System	Defrost Kit Identifier
	1, 2 or 3	

A	2
Defrost Heater Phase	Defrost Heater Voltage
A - 1 Phase Fan Motor(s), 1 Phase Heater(s)	2 - 208-230 4 - 460
B - 1 Phase Fan Motor(s), 3 Phase Heaters(s)	
C - 3 Phase Fan Motor(s), 3 Phase Heater(s)	

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Next-Gen II units feature a robust design that improves serviceability, increases unit efficiency, and are designed for use with low GWP refrigerants. Units are offered with Copeland Discus™, Copeland Scroll™ and Bitzer semi-hermetic compressors with a host of standard features and available options to meet a wide variety of refrigeration needs. Next-Gen II condensing units are built for durability and flexibility.



Model shown features configured options



STANDARD FEATURES

- Copeland Discus™, Copeland Scroll™ or Bitzer Semi-Hermetic Compressor
- All weather G90 galvanized steel painted enclosure
- Removable side panels for ease of service
- Generously sized high efficiency condenser, with enhanced copper tubes/and aluminum fins
- Liquid line kit with sealed filter/drier and sight glass with moisture indicator
- Easy access base mounted service valves placed external to cabinet
- Dual pressure (auto reset) controls with flexible Reflex® hoses
- Vertical receiver with isolation valves
- Refrigerant pressure relief valve on FD2 and FD3 Cabinets.
- Integral liquid subcooling circuit
- Suction line piping (filter optional)
- Heavy duty three phase condenser fan motor(s)
- Crankcase heater
- Control circuit fuses
- Pump down toggle switch
- Large electrical panel with hinged door
- 208-230V control voltage
- Color coded point-to-point wiring
- Liquid injection for low temp. Scroll compressors
- **Flooded models include flooded head pressure control (70°F)**
- **Non-flooded models include fan cycle control**

Next-Gen II Nomenclature:

CONFIGURABLE BASE MODEL								
K	F	D	S	04	M	4S	E	A
Brand	Style	Compressor Style	Compressor Configuration	Horsepower	Temperature Range	Refrigerant Type	Voltage Code	Vintage ²
K - Kramer	F - Flooded B - Non-Flooded	D - Discus O - Scroll B - Bitzer	S - Single		E - Extended Medium L - Low M - Medium	4S - Multiple Refrigerants	E - 208-230/3/60 G - 460/3/60 N - 200-220/3/50 ¹ Q - 380/3/50 ¹	A or B

Note(s):

1. 50 Hz available. Contact Factory for additional information.
2. **A** Vintage has standard PSC motor(s). **B** Vintage has standard High Efficiency motors For specific model number vintages, please refer to following price tables or contact factory.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Flooded - Discus Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	2DC3R53K	04	208/230/3/60	KFDS04M4SEA	31,938	673	825
			460/3/60	KFDS04M4SGA	33,926		
	2DD3R63K	05	208/230/3/60	KFDS05M4SEA	32,515	673	850
			460/3/60	KFDS05M4SGA	34,421		
	2DL3R78K	06	208/230/3/60	KFDS06M4SEA	40,383	814	1,075
			460/3/60	KFDS06M4SGA	43,192		
	2DA3R89K	07	208/230/3/60	KFDS07M4SEA	41,240	814	1,100
			460/3/60	KFDS07M4SGA	43,761		
	3DA3R10M	08	208/230/3/60	KFDS08M4SEA	46,248	814	1,130
			460/3/60	KFDS08M4SGA	49,020		
	3DB3R12M	10	208/230/3/60	KFDS10M4SEA	49,595	1,214	1,330
			460/3/60	KFDS10M4SGA	52,160		
	3DF3R15M	12	208/230/3/60	KFDS12M4SEA	53,723	1,280	1,330
			460/3/60	KFDS12M4SGA	55,827		
	3DS3R17M	15	208/230/3/60	KFDS15M4SEA	54,912	1,653	1,350
			460/3/60	KFDS15M4SGA	56,767		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

“-” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Non-Flooded - Discus Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	2DC3R53K	04	208/230/3/60	KBDS04M4SEB	29,882	673	825
			460/3/60	KBDS04M4SGB	31,831		
	2DD3R63K	05	208/230/3/60	KBDS05M4SEB	30,444	673	850
			460/3/60	KBDS05M4SGB	32,318		
	2DL3R78K	06	208/230/3/60	KBDS06M4SEA	38,165	814	1,075
			460/3/60	KBDS06M4SGA	40,922		
	2DA3R89K	07	208/230/3/60	KBDS07M4SEA	39,005	814	1,100
			460/3/60	KBDS07M4SGA	41,481		
	3DA3R10M	08	208/230/3/60	KBDS08M4SEA	43,922	814	1,130
			460/3/60	KBDS08M4SGA	46,638		
	3DB3R12M	10	208/230/3/60	KBDS10M4SEA	47,203	1,214	1,330
			460/3/60	KBDS10M4SGA	49,720		
	3DF3R15M	12	208/230/3/60	KBDS12M4SEA	51,252	1,280	1,330
			460/3/60	KBDS12M4SGA	53,317		
	3DS3R17M	15	208/230/3/60	KBDS15M4SEA	53,461	1,653	1,350
			460/3/60	KBDS15M4SGA	55,314		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Flooded - Discus Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	2DF3F16K	03	208/230/3/60	KFDS03L4SEA	31,093	673	710
			460/3/60	KFDS03L4SGA	33,247		
	2DL3F20K	04	208/230/3/60	KFDS04L4SEA	34,088	673	760
			460/3/60	KFDS04L4SGA	36,273		
	2DA3F23K	05	208/230/3/60	KFDS05L4SEA	34,911	673	805
			460/3/60	KFDS05L4SGA	37,393		
	3DA3F28K	06	208/230/3/60	KFDS06L4SEA	38,066	814	870
			460/3/60	KFDS06L4SGA	40,567		
	3DB3F33K	08	208/230/3/60	KFDS08L4SEA	42,617	814	1,130
			460/3/60	KFDS08L4SGA	44,632		
	3DF3F40K	09	208/230/3/60	KFDS09L4SEA	47,688	1,214	1,275
			460/3/60	KFDS09L4SGA	50,508		
	3DS3F46K	10	208/230/3/60	KFDS10L4SEA	51,770	1,214	1,275
			460/3/60	KFDS10L4SGA	52,664		
	4DBNF54K	12	208/230/3/60	KFDS12L4SEA	52,797	1,280	1,290
			460/3/60	KFDS12L4SGA	54,003		
	4DHNF63K	15	208/230/3/60	KFDS15L4SEA	55,490	1,653	1,310
			460/3/60	KFDS15L4SGA	56,374		
	4DJNF76K	22	208/230/3/60	KFDS22L4SEA	62,890	2,042	1,420
			460/3/60	KFDS22L4SGA	63,944		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84
Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

“-” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Non-Flooded - Discus Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	2DF3F16K	03	208/230/3/60	KBDS03L4SEB	29,639	673	710
			460/3/60	KBDS03L4SGB	31,795		
	2DL3F20K	04	208/230/3/60	KBDS04L4SEB	32,635	673	760
			460/3/60	KBDS04L4SGB	34,821		
	2DA3F23K	05	208/230/3/60	KBDS05L4SEB	33,459	673	805
			460/3/60	KBDS05L4SGB	35,940		
	3DA3F28K	06	208/230/3/60	KBDS06L4SEA	36,617	814	870
			460/3/60	KBDS06L4SGA	39,118		
	3DB3F33K	08	208/230/3/60	KBDS08L4SEA	41,163	814	1,130
			460/3/60	KBDS08L4SGA	43,183		
	3DF3F40K	09	208/230/3/60	KBDS09L4SEA	46,238	1,214	1,275
			460/3/60	KBDS09L4SGA	49,055		
	3DS3F46K	10	208/230/3/60	KBDS10L4SEA	50,319	1,214	1,275
			460/3/60	KBDS10L4SGA	51,213		
	4DBNF54K	12	208/230/3/60	KBDS12L4SEA	51,347	1,280	1,290
			460/3/60	KBDS12L4SGA	52,551		
	4DHNF63K	15	208/230/3/60	KBDS15L4SEA	54,043	1,653	1,310
			460/3/60	KBDS15L4SGA	54,923		
	4DJNF76K	22	208/230/3/60	KBDS22L4SEA	61,439	2,042	1,420
			460/3/60	KBDS22L4SGA	62,491		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84
Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Flooded - Scroll Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	ZS29KAE	04	208/230/3/60	KFOS04E4SEA	28,798	392	700
			460/3/60	KFOS04E4SGA	31,073		
	ZS33KAE	05	208/230/3/60	KFOS05E4SEA	29,311	392	710
			460/3/60	KFOS05E4SGA	31,543		
	ZS38K4E	06	208/230/3/60	KFOS06E4SEA	33,399	402	710
			460/3/60	KFOS06E4SGA	36,078		
	ZS45K4E	07	208/230/3/60	KFOS07E4SEA	34,049	662	870
			460/3/60	KFOS07E4SGA	36,587		
	ZB58K5E	08	208/230/3/60	KFOS08E4SEA	35,395	662	915
			460/3/60	KFOS08E4SGA	38,008		
	ZB66K5E	09	208/230/3/60	KFOS09E4SEA	37,354	718	980
			460/3/60	KFOS09E4SGA	39,694		
	ZB76K5E	10	208/230/3/60	KFOS10E4SEA	43,672	718	1,085
			460/3/60	KFOS10E4SGA	45,332		
	ZB95K5E	13	208/230/3/60	KFOS13E4SEA	48,366	827	1,105
			460/3/60	KFOS13E4SGA	48,478		
	ZB114K5E	15	208/230/3/60	KFOS15E4SEA	54,004	846	1,200
			460/3/60	KFOS15E4SGA	56,470		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Non-Flooded - Scroll Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	ZS29KAE	04	208/230/3/60	KBOS04E4SEB	27,346	392	700
			460/3/60	KBOS04E4SGB	29,620		
	ZS33KAE	05	208/230/3/60	KBOS05E4SEB	27,858	402	710
			460/3/60	KBOS05E4SGB	30,092		
	ZS38K4E	06	208/230/3/60	KBOS06E4SEB	31,946	402	710
			460/3/60	KBOS06E4SGB	34,625		
	ZS45K4E	07	208/230/3/60	KBOS07E4SEA	32,597	662	870
			460/3/60	KBOS07E4SGA	35,135		
	ZB58K5E	08	208/230/3/60	KBOS08E4SEA	33,273	662	915
			460/3/60	KBOS08E4SGA	35,837		
	ZB66K5E	09	208/230/3/60	KBOS09E4SEA	35,197	718	980
			460/3/60	KBOS09E4SGA	37,489		
	ZB76K5E	10	208/230/3/60	KBOS10E4SEA	41,392	718	1,085
			460/3/60	KBOS10E4SGA	43,020		
	ZB95K5E	13	208/230/3/60	KBOS13E4SEA	45,998	827	1,105
			460/3/60	KBOS13E4SGA	46,107		
	ZB114K5E	15	208/230/3/60	KBOS15E4SEA	51,528	846	1,200
			460/3/60	KBOS15E4SGA	53,947		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Flooded - Scroll Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	ZF25K4E	08	208/230/3/60	KFOS08L4SEA	32,814	662	850
			460/3/60	KFOS08L4SGA	34,754		
	ZF34K5E	10	208/230/3/60	KFOS10L4SEA	40,730	718	1,025
			460/3/60	KFOS10L4SGA	43,124		
	ZF41K5E	13	208/230/3/60	KFOS13L4SEA	46,034	827	1,050
			460/3/60	KFOS13L4SGA	46,822		
	ZF49K5E	15	208/230/3/60	KFOS15L4SEA	47,565	846	1,105
			460/3/60	KFOS15L4SGA	48,637		

1. Factory Mounted Options are found on Page 83 & Shipped-Loose Accessories are found on Page 83
Liquid Injection is standard on Low Temp. Scroll compressors.

"-" = Not Available

Non-Flooded - Scroll Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	ZF25K4E	08	208/230/3/60	KBOS08L4SEB	31,361	662	850
			460/3/60	KBOS08L4SGB	33,301		
	ZF34K5E	10	208/230/3/60	KBOS10L4SEA	39,276	718	1,025
			460/3/60	KBOS10L4SGA	41,673		
	ZF41K5E	13	208/230/3/60	KBOS13L4SEA	44,582	827	1,050
			460/3/60	KBOS13L4SGA	45,371		
	ZF49K5E	15	208/230/3/60	KBOS15L4SEA	46,112	846	1,105
			460/3/60	KBOS15L4SGA	47,186		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84
Liquid Injection is standard on Low Temp. Scroll compressors.

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Flooded - Bitzer Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	2DES-3	03	208/230/3/60	KFBS03E4SEA	34,382	673	800
			460/3/60	KFBS03E4SGA	36,638		
	2CES-4	04	208/230/3/60	KFBS04E4SEA	34,926	673	825
			460/3/60	KFBS04E4SGA	37,097		
	4FES-5	05	208/230/3/60	KFBS05E4SEA	35,488	673	850
			460/3/60	KFBS05E4SGA	37,582		
	4EES-6	06	208/230/3/60	KFBS06E4SEA	38,898	814	1,075
			460/3/60	KFBS06E4SGA	40,367		
	4DES-7	07	208/230/3/60	KFBS07E4SEA	42,260	814	1,100
			460/3/60	KFBS07E4SGA	43,104		
	4CES-9	08	208/230/3/60	KFBS08E4SEA	48,546	814	1,130
			460/3/60	KFBS08E4SGA	50,973		
	4TES-12	10	208/230/3/60	KFBS10E4SEA	49,132	1,214	1,330
			460/3/60	KFBS10E4SGA	52,035		
	4PES-15	12	208/230/3/60	KFBS12E4SEA	51,219	1,280	1,330
			460/3/60	KFBS12E4SGA	53,891		
	4NES-20	15	208/230/3/60	KFBS15E4SEA	52,386	1,653	1,350
			460/3/60	KFBS15E4SGA	54,949		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Non-Flooded - Bitzer Compressor - Medium Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Medium Temperature	2DES-3	03	208/230/3/60	KBBS03E4SEB	32,931	673	800
			460/3/60	KBBS03E4SGB	35,185		
	2CES-4	04	208/230/3/60	KBBS04E4SEB	33,472	673	825
			460/3/60	KBBS04E4SGB	35,645		
	4FES-5	05	208/230/3/60	KBBS05E4SEB	34,039	673	850
			460/3/60	KBBS05E4SGB	36,131		
	4EES-6	06	208/230/3/60	KBBS06E4SEA	37,447	814	1,075
			460/3/60	KBBS06E4SGA	38,915		
	4DES-7	07	208/230/3/60	KBBS07E4SEA	40,809	814	1,100
			460/3/60	KBBS07E4SGA	41,653		
	4CES-9	08	208/230/3/60	KBBS08E4SEA	46,173	814	1,130
			460/3/60	KBBS08E4SGA	48,555		
	4TES-12	10	208/230/3/60	KBBS10E4SEA	46,747	1,214	1,330
			460/3/60	KBBS10E4SGA	49,595		
	4PES-15	12	208/230/3/60	KBBS12E4SEA	48,797	1,280	1,330
			460/3/60	KBBS12E4SGA	51,417		
	4NES-20	15	208/230/3/60	KBBS15E4SEA	49,940	1,653	1,350
			460/3/60	KBBS15E4SGA	52,456		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

Next-Gen II - 3-22 HP Condensing Units

Flooded - Bitzer Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	4FES-3	03	208/230/3/60	KFBS03L4SEA	30,493	673	710
			460/3/60	KFBS03L4SGA	31,688		
	4EES-4	04	208/230/3/60	KFBS04L4SEA	33,512	673	760
			460/3/60	KFBS04L4SGA	34,706		
	4DES-5	05	208/230/3/60	KFBS05L4SEA	35,214	673	805
			460/3/60	KFBS05L4SGA	36,532		
	4CES-6	06	208/230/3/60	KFBS06L4SEA	42,186	814	870
			460/3/60	KFBS06L4SGA	43,897		
	4TES-9	08	208/230/3/60	KFBS08L4SEA	45,125	814	1,130
			460/3/60	KFBS08L4SGA	46,765		
	4PES-12	09	208/230/3/60	KFBS09L4SEA	48,311	1,214	1,275
			460/3/60	KFBS09L4SGA	49,863		
	4NES-14	10	208/230/3/60	KFBS10L4SEA	51,546	1,214	1,275
			460/3/60	KFBS10L4SGA	53,100		
	4JE-15	12	208/230/3/60	KFBS12L4SEA	55,560	1,280	1,290
			460/3/60	KFBS12L4SGA	57,112		
	4HE-18	15	208/230/3/60	KFBS15L4SEA	59,666	1,653	1,310
			460/3/60	KFBS15L4SGA	61,212		
	4GE-23	22	208/230/3/60	KFBS22L4SEA	61,212	2,042	1,420
			460/3/60	KFBS22L4SGA	63,473		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84
Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen II - 3-22 HP Condensing Units

Non-Flooded - Bitzer Compressor - Low Temperature - Configurable Base Models

	Compressor Model Number	Nominal H.P.	Voltage	Model Number	List Price (\$US)	4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
Low Temperature	4FES-3	03	208/230/3/60	KBBS03L4SEB	29,041	673	710
			460/3/60	KBBS03L4SGB	30,236		
	4EES-4	04	208/230/3/60	KBBS04L4SEB	32,059	673	760
			460/3/60	KBBS04L4SGB	33,253		
	4DES-5	05	208/230/3/60	KBBS05L4SEB	33,761	673	805
			460/3/60	KBBS05L4SGB	35,079		
	4CES-6	06	208/230/3/60	KBBS06L4SEB	40,735	814	870
			460/3/60	KBBS06L4SGB	42,446		
	4TES-9	08	208/230/3/60	KBBS08L4SEA	43,671	814	1,130
			460/3/60	KBBS08L4SGA	45,315		
	4PES-12	09	208/230/3/60	KBBS09L4SEA	46,859	1,214	1,275
			460/3/60	KBBS09L4SGA	48,410		
	4NES-14	10	208/230/3/60	KBBS10L4SEA	50,094	1,214	1,275
			460/3/60	KBBS10L4SGA	51,644		
	4JE-15	12	208/230/3/60	KBBS12L4SEA	54,108	1,280	1,290
			460/3/60	KBBS12L4SGA	55,659		
	4HE-18	15	208/230/3/60	KBBS15L4SEA	58,214	1,653	1,310
			460/3/60	KBBS15L4SGA	59,760		
	4GE-23	22	208/230/3/60	KBBS22L4SEA	56,657	2,042	1,420
			460/3/60	KBBS22L4SGA	62,020		

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 83 and 84
Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

"-" = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS



Next-Gen II - 3-22 HP Condensing Units

Factory Installed Options - Electrical Options

Option Description (All Options are Factory Mounted unless otherwise noted)	Option Number	H.P Range/ Cabinet	List Price Adder (\$US)
THROUGH THE DOOR NON-FUSED DISCONNECT SWITCH	TDNM-3	3-10	2,294
	TDNM-4	12-22	2,565
EXTERNAL FUSED DISCONNECT - Loose or Mounted	EFDM-2 (230V)	3 - 6	1,484
	EFDM-3 (230V)	7 - 10	1,765
	EFDM-4 (230V)	12 - 22	3,767
	EFDM-2 (460V)	3 - 6	1,744
	EFDM-3 (460V)	7 - 10	3,137
	EFDM-4 (460V)	12 - 22	5,179
MAIN CIRCUIT BREAKER	BKR-2	3 - 6	2,121
	BKR-3	7 - 10	2,671
	BKR-4	12 - 22	3,359
† PHASE LOSS MONITOR	PLM	ALL	1,669
ANTI SHORT CYCLE TIMER	ASC	ALL	987
AIR DEFROST TIMER	TMR	ALL	821
CURRENT SENSING RELAY (Run proof)	CSR	ALL	1,094
COMPRESSOR UNLOADERS (Suction pressure control. Medium Temp reciprocating compressors only. 1 Step for 3D and larger compressors.	UNL-1	When Available	3,070

† Phase Loss monitor is a standard feature for K5 Scroll Series CoreSense modules. Extended Range models *OS8E4S thru OS15E4s and Low Temp OS10L4L thru *OS15L4S use K5 Series Scroll compressors.

Factory Installed Options - Defrost Kits

1 Unit Cooler per CU	Max Defrost Load	List Price (\$US)
DMA15	15	1,759
DMA20	20	
DMA24	24	
DMA30	30	
DMA35	35	1,965
DMA40	40	
DMA48	48	
DMB60	60	
DMB96	96	3,833

2 Unit Coolers per CU	Max Defrost Load	List Price (\$US)
DMB35	35	2,665
DMB40	40	
DMB48	48	
DMB60	60	3,833
DMB96	96	

3 Unit Coolers per CU	Max Defrost Load	List Price (\$US)
DMC35	35	4,009
DMC40	40	
DMC48	48	
DMC60	60	4,956
DMC96	96	

Note: All electric defrost kits include 1 fan contactor and are suitable for single or three phase loads. Defrost amp values are the maximum load for a kit. Smaller loads may be attached.

Next-Gen II Options continued on next page.

Next-Gen II - 3-22 HP Condensing Units

Factory Installed Options - Mechanical Options

Option Description (All Options are Factory Mounted unless otherwise noted)	Option Number	H.P Range/ Cabinet	List Price Adder (\$US)
SUCTION LINE FILTER (Sealed)	SK-5	3 - 8	719
	SK-6	9 - 10	1,222
	SK-7	12 - 22	1,947
REPLACEABLE CORE SUCTION FILTER ¹	RSK-5	3 - 8	1,618
	RSK-6	9 - 10	2,070
	RSK-7	12 - 22	2,919
REPLACEABLE CORE LIQUID FILTER ¹	RLK-5	3 - 8	1,162
	RLK-6	9 - 10	1,708
	RLK-7	12 - 22	3,568
SUCTION LINE ACCUMULATOR ²	ASK-4	3 - 8	1,162
	ASK-5	9 - 10	1,708
	ASK-6	12 - 22	3,568
OIL SEPARATOR	OS-1	3 - 6	1,979
	OS-2	7 - 10	2,107
	OS-3	12 - 22	2,475
OVERSIZED RECEIVERS	OSR-1	1 FAN	1,747
	OSR-2	2 FAN	977
	OSR-3	2 FAN TALL	988
PRESSURE RELIEF VALVE (For models built on FD1 cabinet base. Requires Oversized Receiver OSR-1 option)	RV	FD1 Cabinet	443
HEATED AND INSULATED RECEIVER (Temperature controlled with low pressure bypass timer)	HIR	ALL	1,149
CRANKCASE PRESSURE REGULATOR (Do not use with MOP style TXV's. Must provide refrigerant type, holding temperature, suction temperature, and maximum design capacity.	CPR VALVE	3 - 5	2,277
		6 - 9	2,523
		10 - 15	4,703
		22	7,359
LIQUID INJECTION / DEMAND COOLING™ (Low Temp. Bitzer and Discus compressors)	LNJ	ALL	3,725
HAIL / SNOW GUARDS (Shipped loose to prevent shipping damage. Requires field installation)	SG-E	1 FAN	1,407
	SG-F	2 FAN	1,924
	SG-G	2 FAN TALL	2,157
2 UNIT STACKING RACK (Shipped empty. Condensing units must be field installed.)	SR-2	1 or 2 FAN	Call Factory
3 UNIT STACKING RACK (Shipped empty. Condensing units must be field installed.)	SR-3	1 or 2 FAN	Call Factory

1. If ordering a Replaceable Core Suction Filter, a Replace Core Liquid Line Filter must also be ordered.
2. If ordering a Suction Line Accumulator, either a Sealed Suction Line Filter or Replaceable Core Suction Line Filter must be ordered.

AIR-COOLED CONDENSING UNITS

KRAMER

QV-Series - 15-100 HP Condensing Units

The design of the innovative QV-Series Condensing Units™ sets the new standard for efficiency, reliability and serviceability to meet the needs of the food processing, industrial cooling and warehousing industries.

Models incorporate features from our award-winning Quantum Air™ Condensers such as the floating coil design with generously sized condensers for energy savings, swept wing fan blades for optimal air flow, and LED lighted control panel and hinged venturi panels for easy access. A floored compressor cabinet with removable compressor tray, service convenience outlet, hinged and removable access panels, integral liquid subcooling circuit, and paint protected galvanized steel housing are all standard features of these units.



STANDARD FEATURES

- Available in single, dual or parallel compressor configurations from 15 to 100 HP
- Prepaint gray exterior/ G60 galvanized steel outdoor cabinet construction
- Heavy gauge G90 galvanized steel frame
- Award-winning floating coil design with generously sized condensers for energy savings
- Integral subcooling circuit boosts energy efficiency
- Mechanically formed pre-bent tubing reduces potential leaks
- Separate power and control electrical panels
- Swept wing fan/Venturi improves airflow and sound
- Hinged and removable access panels
- Flip top hinged Venturi panels for easy servicing
- Floored compressor cabinet with removable compressor tray
- LED control and compressor panel lighting
- 110V service convenience outlet
- Service gauge hooks
- 3 Phase condenser fan motors
- Color-coded high and low pressure hoses
- Electronic oil failure control
- Horizontal receiver
- Receiver isolation valves
- Refrigerant relief valve
- Replaceable core liquid line filter
- Suction line and discharge line vibrasorbers
- Liquid line isolation valve with sight glass
- Single point alarm with liquid line solenoid lockout
- Control circuit and condenser fan fusing
- Condenser fan contactors
- UL and cUL listed for outdoor use
- **Flooded (KF) Models include an adjustable head pressure control valve**
- **Non-Flooded (KB) Models include electronic fan cycling control and a minimum charge monitor**
- **Parallel Compressor Models (KF*P/ KB*P) include an oil management system**

QV-Series Nomenclature:

CONFIGURABLE BASE MODEL								
K	F	D	V	30	M	4S	G	A
Brand	Style	Compressor Style	Compressor Configuration	Horsepower	Temperature Range	Refrigerant Type	Voltage Code	Vintage
K - Kramer	F - Flooded B - Non-Flooded	D - Discus B - Bitzer EcoLine	V - Single D - Dual P - Parallel Piped		L - Low M - Medium	4S - Multiple Refrigerants	E - 208-230/3/60 G - 460/3/60	

Note(s):

1. 50 Hz available. Contact Factory for additional information.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

QV-Series - 15-100 HP Condensing Units

Discus Compressor - Single Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (1 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	15	K*DV015M4S*A	3DS3R17ME	62,018	63,034	61,645	62,694	1,653
	20	K*DV020M4S*A	4DBNR20ME	68,642	69,610	67,183	68,557	2,042
	25	K*DV025M4S*A	4DHNR22ME	81,967	82,866	80,302	81,689	2,283
	30	K*DV030M4S*A	4DJNR28ME	95,805	96,850	90,617	91,740	2,449
	35	K*DV035M4S*A	6DHNR35ME	108,506	109,126	104,502	104,786	2,581
	40	K*DV040M4S*A	6DJNR40ME ¹	119,407	121,067	114,798	116,481	2,950
Low Temp.	50	K*DV050M4S*A	6DUNR49ME	—	144,531	—	137,261	3,048
	22	K*DV022L4S*A	4DJNF76KE	77,107	78,729	77,094	78,069	2,042
	27	K*DV027L4S*A	6DHNF93KE	89,254	89,967	87,525	89,104	2,283
	30	K*DV030L4S*A	6DJNF11ME	98,610	99,518	96,577	98,195	2,449
	40	K*DV040L4S*A	6DUNF13ME	—	123,915	—	121,891	2,950

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 89-90 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Demand Cooling is optional on Low Temp. Discus compressors. It's required for non-R404A refrigerants.

“—” = Not Available

Bitzer Compressor - Single Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (1 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	15	K*BV015M4S*A	4NE-20	62,018	63,034	61,645	62,694	1,653
	20	K*BV020M4S*A	4JE-22	68,642	69,610	67,183	68,557	2,042
	25	K*BV025M4S*A	4HE-25	81,967	82,866	80,302	81,689	2,283
	30	K*BV030M4S*A	4GE-30	95,805	96,850	90,617	91,740	2,449
	35	K*BV035M4S*A	6HE-35	108,506	109,126	104,502	104,786	2,581
	40	K*BV040M4S*A	6GE-40	119,407	121,067	114,798	116,481	2,950
	50	K*BV050M4S*A	6FE-50	143,455	144,531	136,239	137,261	3,048
Low Temp.	22	K*BV022L4S*A	4GE-23	77,107	78,729	77,094	78,069	2,042
	27	K*BV027L4S*A	6HE-28	89,254	89,967	87,525	89,104	2,283
	30	K*BV030L4S*A	6GE-34	98,610	99,518	96,577	98,195	2,449
	40	K*BV040L4S*A	6FE-44	122,994	123,915	121,222	121,891	2,950

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 89-90 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

“—” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS

KRAMER

QV-Series - 15-100 HP Condensing Units

Discus Compressor - Dual Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (2 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	30	K*DD030M4S*A	3DS3R17ME	124,041	126,070	123,287	125,386	3,306
	40	K*DD040M4S*A	4DBNR20ME	137,287	139,220	134,368	137,114	4,084
	50	K*DD050M4S*A	4DHNR22ME	163,935	165,733	160,605	163,382	4,566
	60	K*DD060M4S*A	4DJNR28ME	191,614	193,702	181,232	183,481	4,898
	70	K*DD070M4S*A	6DHNR35ME	217,012	218,255	209,004	209,576	5,162
	80	K*DD080M4S*A	6DJNR40ME¹	238,819	242,133	229,595	232,960	5,900
	100	K*DD100M4S*A	6DUNR49ME	—	289,064	—	274,521	6,096
Low Temp.	44	K*DD044L4S*A	4DJNF76KE	154,212	157,457	154,189	156,138	4,084
	54	K*DD054L4S*A	6DHNF93KE	178,506	179,931	175,051	178,208	4,566
	60	K*DD060L4S*A	6DJNF11ME	197,219	199,036	193,156	196,383	4,898
	80	K*DD080L4S*A	6DUNF13ME	—	24,7832	—	243,782	5,900

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 91-92 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Demand Cooling is optional on Low Temp. Discus compressors. It's required for non-R404A refrigerants.

“—” = Not Available

Bitzer Compressor - Dual Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (2 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	30	K*BD030M4S*A	4NE-20	124,041	126,070	123,287	125,386	3,306
	40	K*BD040M4S*A	4JE-22	137,287	139,220	134,368	137,114	4,084
	50	K*BD050M4S*A	4HE-25	163,935	165,733	160,605	163,382	4,566
	60	K*BD060M4S*A	4GE-30	191,614	193,702	181,232	183,481	4,898
	70	K*BD070M4S*A	6HE-35	217,012	218,255	209,004	209,576	5,162
	80	K*BD080M4S*A	6GE-40	238,819	242,133	229,595	232,960	5,900
	100	K*BD100M4S*A	6FE-50	286,912	289,064	272,477	274,521	6,096
Low Temp.	44	K*BD044L4S*A	4GE-23	154,212	157,457	154,189	156,138	4,084
	54	K*BD054L4S*A	6HE-28	178,506	179,931	175,051	178,208	4,566
	60	K*BD060L4S*A	6GE-34	197,219	199,036	193,156	196,383	4,898
	80	K*BD080L4S*A	6FE-44	245,987	247,832	241,967	243,782	5,900

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 91-92 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

“—” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

QV-Series - 15-100 HP Condensing Units

Discus Compressor - Parallel Piped Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (2 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	50	K*DP050M4S*A	4DHNR22ME	184,212	185,787	180,391	183,114	4,566
	60	K*DP060M4S*A	4DJNR28ME	210,174	212,084	198,136	200,270	4,898
	70	K*DP070M4S*A	6DHNR35ME	236,309	237,371	227,256	227,541	5,162
	80	K*DP080M4S*A	6DJNR40ME ¹	256,308	260,304	246,013	250,054	5,900
	100	K*DP100M4S*A	6DUNR49ME	—	320,861	—	303,864	6,096
Low Temp.	44	K*DP044L4S*A	4DJNF76KE	174,929	178,143	174,904	176,638	4,084
	54	K*DP054L4S*A	6DHNF93KE	197,891	199,066	193,985	197,142	4,566
	60	K*DP060L4S*A	6DJNF11ME	215,373	216,988	210,840	214,057	4,898
	80	K*DP080L4S*A	6DUNF13ME	—	275,091	—	270,523	5,900

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 93-94 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Demand Cooling is optional on Low Temp. Discus compressors. It's required for non-R404A refrigerants.

“—” = Not Available

Bitzer Compressor - Parallel Piped Compressor - Configurable Base Models

	Nom. H.P.	Model Number	Comp. Model Number (2 per Unit)	Flooded		Non-Flooded		4 Year Compressor Protection Plan (NET PRICE ADDER \$US)
				208-230/3	460/3	208-230/3	460/3	
Medium Temp.	50	K*BP050M4S*A	4HE-25	184,212	185,787	180,391	183,114	4,566
	60	K*BP060M4S*A	4GE-30	210,174	212,084	198,136	200,270	4,898
	70	K*BP070M4S*A	6HE-35	236,309	237,371	227,256	227,541	5,162
	80	K*BP080M4S*A	6GE-40	256,308	260,304	246,013	250,054	5,900
	100	K*BP100M4S*A	6FE-50	318,472	320,861	301,600	303,864	6,096
Low Temp.	44	K*BP044L4S*A	4GE-23	174,929	178,143	174,904	176,638	4,084
	54	K*BP054L4S*A	6HE-28	197,891	199,066	193,985	197,142	4,566
	60	K*BP060L4S*A	6GE-34	215,373	216,988	210,840	214,057	4,898
	80	K*BP080L4S*A	6FE-44	318,472	275,091	268,507	270,523	5,900

Factory Mounted Options & Shipped-Loose Accessories are found on Pages 93-94 and 95-96

* Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

“—” = Not Available

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

AIR-COOLED CONDENSING UNITS



QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Single Compressor - Compressor & Electrical Options

	Option Description (All Options are Factory Mounted unless otherwise noted)	Option Available On:	List Price Adder (\$US)
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	BV015M, 020M-30M, 050M; 022L - 040L	3,064
	Compressor Unloading with Pressure Control for 2 Cycle Bank	035M & 045M	4,429
	Compressor Unloading: Moduload	DV015M	6,035
	Head Cooling Fan	All Models	2,546
	Liquid Injection / Demand Cooling	022L - 040L	5,590
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	821
	Anti-Short Cycle Timer	All Models	709
	Condenser Fan Breaker	015M -030M; 022L - 040L	1,070
		035M -050M	1,627
	Control Circuit Breaker	All Models	349
	EC Fan Motors with Electronic Variable Speed Control	015M -030M; 022L - 040L	Call Factory
		035M -050M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,165
		Models with 61A < MOPD < 101A	3,206
		Models with 101A < MOPD < 201A	5,493
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	2,768
		Models with 101A < MOPD < 201A	4,490
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,949
		Models with 59A < MCA > 99A	2,829
		Models with 99A < MCA < 199A	4,679
	Phase-Loss Monitor - 250A	230V & 460V	1,369
	Phase-Loss Monitor - ICM450	230V	1,996
		460V	1,419

QV-Series Single Compressor Options continued on next page.

QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Single Compressor - Refrigeration Options

Option Description (All Options are Factory Mounted unless otherwise noted)		Option Available On:	List Price Adder (\$US)
Refrigeration Options	Crankcase Pressure Regulator Valves	015M	4,806
		020M - 040M; 022L - 030L	6,053
		050M & 040L	12,014
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,159
	Heat Reclaim Valve	All Models	4,996
	Heated & Insulated Receiver	All Models	3,801
	Hot Gas Bypass Tee & Ball Valve	All Models	1,172
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	6,792
	Liquid-line Filter Isolation Valve (Single Valve)	All Models	676
	Liquid Line Solenoid Valve (Shipped loose)	015M - 025M; 022L - 040L	840
		030M - 035M	1,074
		040M - 050M	1,623
	Oil Separator with Check Valve	015 - 030	2,746
		035 - 050	4,890
	Oil Separator with Check Valve & Oil Return Service Kit	015 - 030	5,155
		035 - 050	7,300
	Oversized Receiver	All Models	1,617
	Receiver Level Gauge	All Models	2,006
	Suction Accumulator - Standard	015	3,623
		020-050	4,190
	Suction Accumulator - Heat Exchanger	015	4,490
		020-050	6,951
	Suction-line Filter - Replaceable Core	015M	1,582
		020M - 040M; 022L - 030L	1,972
		050M & 040L	2,049
	Suction-line Filter Isolation Valves	015M	1,108
		020M - 040M; 022L - 030L	1,785
		050M & 040L	3,105
	Suction-line Insulation	All Models	1,965

AIR-COOLED CONDENSING UNITS



QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Dual Compressor - Compressor & Electrical Options

	Option Description (All Options are Factory Mounted unless otherwise noted)	Option Available On:	List Price Adder (\$US)
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	BD030M, D040M - D060M, D100M; D044L - D080L	6,128
	Compressor Unloading with Pressure Control for 2 Cycle Bank	D070M & D080M	8,858
	Compressor Unloading: Moduload	DD030M	12,070
	Head Cooling Fan	All Models	5,092
	Liquid Injection / Demand Cooling	D044L - D080L	11,180
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	1,642
	Anti-Short Cycle Timer	All Models	1,418
	Condenser Fan Breaker	D030M -D060M; D044L - D080L	2,140
		D070M -D100M	3,254
	Control Circuit Breaker	All Models	349
	EC Fan Motors with Electronic Variable Speed Control	D030M -D060M; D044L - D080L	Call Factory
		D070M -D100M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,165
		Models with 61A < MOPD < 101A	3,206
		Models with 101A < MOPD < 201A	5,493
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	2,768
		Models with 101A < MOPD < 201A	4,490
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,949
		Models with 59A < MCA > 99A	2,829
		Models with 99A < MCA < 199A	4,679
	Phase-Loss Monitor - 250A	230V & 460V	2,738
	Phase-Loss Monitor - ICM450	460V	2,838

QV-Series Dual Compressor Options continued on next page.

QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Dual Compressor - Refrigeration Options

Option Description (All Options are Factory Mounted unless otherwise noted)		Option Available On:	List Price Adder (\$US)
Refrigeration Options	Crankcase Pressure Regulator Valves	D030M	9,612
		D040M - D080M; D044L - D060L	12,106
		D100M & D080L	24,028
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	4,318
	Heat Reclaim Valve	All Models	9,992
	Heated & Insulated Receiver	All Models	7,602
	Hot Gas Bypass Tee & Ball Valve	All Models	2,344
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	13,584
	Liquid-line Filter Isolation Valve (Single Valve per Circuit)	All Models	1,352
	Liquid Line Solenoid Valve (Shipped loose)	030M - 050M; 044L - 080L	1,680
		060M - 070M	2,148
		080M - 100M	3,246
	Oil Separator with Check Valve	D030 - D060	5,492
		D070 - D100	9,780
	Oil Separator with Check Valve & Oil Return Service Kit	D030 - D060	10,310
		D070 - D100	14,600
	Oversized Receiver	All Models	3,234
	Receiver Level Gauge	All Models	4,012
	Suction Accumulator - Standard	D030	7,246
		D040-D100	8,380
	Suction Accumulator - Heat Exchanger	D030	8,980
		D040-D100	13,902
	Suction-line Filter - Replaceable Core	D030M	3,164
		D040M - D080M; D044L - D060L	3,944
		D100M & D080L	4,098
	Suction-line Filter Isolation Valves	D030M	2,216
		D040M - D080M; D044L - D060L	3,570
		D100M & D080L	6,210
	Suction-line Insulation	All Models	3,930

AIR-COOLED CONDENSING UNITS

KRAMER

QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Parallel-Piped Compressor - Compressor & Electrical Options

	Option Description (All Options are Factory Mounted unless otherwise noted)	Option Available On:	List Price Adder (\$US)
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	P050M - P060M, P100M; P044L - P080L	6,128
	Compressor Unloading with Pressure Control for 2 Cycle Bank	P070M & P080M	8,858
	Head Cooling Fan	All Models	5,092
	Liquid Injection / Demand Cooling	P044L - P080L	11,180
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	821
	Anti-Short Cycle Timer	All Models	709
	Condenser Fan Breaker	P050M -P060M; P044L - P080L	1,070
		P070M -P100M	1,627
	Control Circuit Breaker	All Models	349
	EC Fan Motors with Electronic Variable Speed Control	P050M -P060M; P044L - P080L	Call Factory
		P070M -P100M	Call Factory
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,165
		Models with 61A < MOPD < 101A	3,206
		Models with 101A < MOPD < 201A	5,493
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	2,768
		Models with 101A < MOPD < 201A	4,490
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	1,949
		Models with 59A < MCA > 99A	2,829
		Models with 99A < MCA < 199A	4,679
	Phase-Loss Monitor - 250A	230V & 460V	2,738
	Phase-Loss Monitor - ICM450	460V	2,838

QV-Series Parallel-Piped Compressor Options continued on next page.

QV-Series - 15-100 HP Condensing Units

Factory Installed Options - Parallel-Piped Compressor - Refrigeration Options

Option Description (All Options are Factory Mounted unless otherwise noted)		Option Available On:	List Price Adder (\$US)
Refrigeration Options	Crankcase Pressure Regulator Valves	P050M-P60M	12,107
		P070M-P100M; P044L - P080L	14,134
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	4,318
	Heat Reclaim Valve	All Models	4,996
	Heated & Insulated Receiver	All Models	3,801
	Hot Gas Bypass Tee & Ball Valve	All Models	1,172
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	6,792
	Liquid-line Filter Isolation Valve (Single Valve)	All Models	676
	Liquid Line Solenoid Valve (Shipped loose)	050M - 060M	1,592
		070M – 100M	2,745
		044L – 080L	1,052
	Oversized Receiver	All Models	1,617
	Receiver Level Gauge	All Models	2,006
	Suction Accumulator - Standard	P050M-P60M	5,028
		P070M-P100M; P044L - P080L	5,472
	Suction Accumulator - Heat Exchanger	P050M-P60M	6,951
		P070M-P100M; P044L - P080L	7,681
	Suction-line Filter - Replaceable Core	P050M-P60M	2,219
		P070M-P100M; P044L - P080L	2,458
	Suction-line Filter Isolation Valves	P050M-P60M	3,105
		P070M-P100M; P044L - P080L	4,903
	Suction-line Insulation	All Models	3,930

AIR-COOLED CONDENSING UNITS

KRAMER

QV-Series - 15-100 HP Condensing Units

Defrost Kit Nomenclature

DL	A	24	-
Kit Designator	Heater Contactor QTY	Max Total Heater Amp Value	Special Kit Codes
	A - 1, B - 2, C - 3, D - 4		-1: 1 Evaporator with Multiple Heater Feeds -2: 2 Evaporators with Multiple Heater Feeds PP: Pressure Prop Kits for Large Evaporators

When selecting defrost kit, use the next higher amp value above the defrost load.
All kits include 1 fan contactor and are suitable for 1 or 3 phase loads.
Electrical resistance loads greater than 48 amps must be split into multiple circuits.

Factory Installed Options - Defrost Kits - Single & Parallel-Piped Compressor Models

1 Heater Contactor		2 Heater Contactors		3 Heater Contactors		4 Heater Contactors	
Kit Model	List Price (\$US)	Kit Model	List Price (\$US)	Kit Model	List Price (\$US)	Kit Model	List Price (\$US)
DLA24 ¹	2,262						
DLA30 ¹	2,351						
DLA35 ¹	2,647	DLB35 ¹	3,378	DLC35	4,615		
DLA40 ¹	2,647	DLB40 ¹	3,378	DLC40	4,615		
DLA48 ¹	2,647	DLB48 ¹	3,378	DLC48	4,615		
		DLB60 ^{1 2 4}	3,512	DLC60 ¹	4,615	DLD60	5,458
		DLB96 ^{1 2 4}	4,254	DLC96 ¹	4,894	DLD96	5,501
				DLC144 ¹	6,669	DLD144 ^{3 5}	6,713
						DLD192 ^{3 5}	7,055

Defrost Kit selected for Single and Parallel compressor models is for entire unit. Up to 4 contactors.

¹Defrost Kit Available with Pressure Prop Kit for Large Evaporators (Special Kit Code: PP)

²Defrost Kit Available for Evaporator with Multiple Heater Feeds (Special Kit Code: -1)

³Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds (Special Kit Code: -2)

⁴Defrost Kit Available for Evaporator with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -1PP)

⁵Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -2PP)

Factory Installed Options - Defrost Kits - Dual Compressor Models

1 Heater Contactor per Compressor		2 Heater Contactors per Compressor	
Kit Model	List Price (\$US)	Kit Model	List Price (\$US)
DLA24 ¹	4,524		
DLA30 ¹	4,702		
DLA35 ¹	5,294	DLB35 ¹	6,756
DLA40 ¹	5,294	DLB40 ¹	6,756
DLA48 ¹	5,294	DLB48 ¹	6,756
		DLB60 ^{1 2 3}	7,024
		DLB96 ^{1 2 3}	8,508

Defrost Kit selected is per compressor for Dual compressor models. Up to 2 contactors/compressor.

¹Defrost Kit Available with Pressure Prop Kit for Large Evaporators (Special Kit Code: PP)

²Defrost Kit Available for Evaporator with Multiple Heater Feeds (Special Kit Code: -1)

³Defrost Kit Available for Evaporator with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -1PP)

Factory Installed Options - Timer/Fan Contactor - Single & Parallel-Piped Compressor Models

1 Fan Contactor & Defrost Timer		
Kit Model	Max Motor Amps	List Price (\$US)
TMR-EF-15A	15	1,249
TMR-EF-30A	30	1,324

QV-Series Defrost Kit Options continued on next page.

QV-Series - 15-100 HP Condensing Units**Fuseblock and Circuit Breaker Options**

Max Heater Amps	1 Heater Contactor		2 Heater Contactors		3 Heater Contactors		4 Heater Contactors	
	Fuseblock List Price (\$US)	Circuit Breaker List Price (\$US)	Fuseblock List Price (\$US)	Circuit Breaker List Price (\$US)	Fuseblock List Price (\$US)	Circuit Breaker List Price (\$US)	Fuseblock List Price (\$US)	Circuit Breaker List Price (\$US)
24	160	1,194						
30	212	1,858						
35	212	1,858	212	2,204	316	2,367		
40	212	1,858	212	2,204	316	2,367		
48	212	1,858	212	2,204	316	2,367		
60			296	3,706	453	3,913	488	4,097
96			380	3,731	518	4,986	627	5,139
144					656	5,155	857	6,190
192							862	6,254

Dual Compressor Units require 2 Fuseblocks & 2 Circuit Breaker, 1 per compressor. Up to 2 contactors/compressor.

AIR-COOLED CONDENSING UNITS

KRAMER

ThermoBank - 20-100 HP Condensing Units

Thermobank's proprietary energy-efficient hot gas defrost system delivers more refrigeration with lower equipment power, energy consumption, and operating costs than conventional refrigeration packages. The units provide continuous energy savings as outdoor temperatures drop. As temperatures lower, BTU per hour increases and compressor watts decrease resulting in more cooling and less energy usage per operating hour. The fast defrost cycle (approximately 5 to 10 minutes) is refrigerating while competitor models are still defrosting.

These models utilize environmentally friendly refrigerants and include a long list of standard features and optional components. Thermobank units are ideal for supermarkets, refrigerated warehouses, and commercial and industrial applications with temperatures ranging from -30° to +35°F.



STANDARD FEATURES

- Rugged all weather housing
- Integral Liquid Subcooling Circuit provides subcooled liquid to the expansion device
- Floating head pressure control
- Adjustable fan cycling
- Suction and discharge vibration eliminators
- Replaceable core liquid line filter/drier and suction line filters
- Low noise energy-efficient rail mounted condenser motors
- Hi-Lo pressure switch
- Crankcase heater

ThermoBank Condensing Unit Nomenclature:

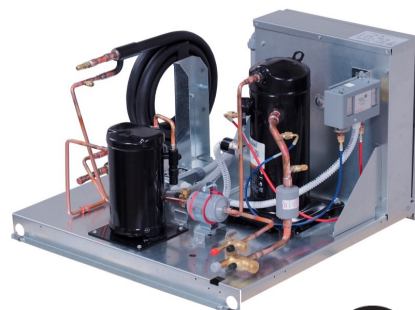
CTT	4	1200	L	44	E
Series	Compressor Code	Nominal HP	Temperature Range	Refrigerant Type	Voltage Code
	2 - Discus 4 - Bitzer		L - Low M - Medium	44 - R-404A 47 - R-407C	E - 208-230/3/60 G - 460/3/60 V - 208/3/60 W - 230/3/60

For ThermoBank Condensing Unit and System Pricing, please contact factory.

For specific model DOE AWEF values in a given application, please refer to this product line's corresponding Sales/Marketing Brochure found on our website.

Next-Gen WC-Series - 1/2 - 6 HP Water-Cooled Condensing Units

Next-Gen WC-Series™ Water Cooled Condensing Units capitalize on the Next-Gen Kompact's award-winning design success. This exciting product offering features greater serviceability, increased unit efficiency, and is compatible for use with low GWP refrigerants. The improvements start with mechanically formed pre-bent tubing for reduced leak potential, high efficiency water cooled coaxial condenser and heat exchange, base mounted shut-off valves, a large electrical control panel with removable door and abundant room for standard components and system accessories along with color-coded and numbered point-to-point wiring that assist in easy service and unit maintenance.



STANDARD FEATURES

- Hermetic or quiet and efficient Scroll compressor
- High efficiency water cooled coaxial condenser
- Base mounted shut-off valves
- Liquid line kit with filter/drier and sight glass with moisture indicator
- Suction and discharge service valves (as required)
- Compressor contactor or start kit (as required)
- Suction line piping (filter optional)
- Color-coded point-to-point wiring
- Large electrical panel with hinged/removable door
- Refrigerant receiver with isolation valve and pressure relief plug
- Adjustable high pressure (auto reset) and low pressure (auto reset) controls
- Electronic defrost timer with defrost contactor/relay on low temperature models (2 evaps. maximum)
- Electronic air defrost timer (Medium temperature models only)
- UL and cUL listed for indoor use

Next-Gen WC-Series Nomenclature:

CONFIGURABLE BASE MODEL							
K	W	O	500	E	4S	E	A
Brand	Style	Compressor Style	Horsepower	Temperature Range	Refrigerant Type	Voltage Code	Vintage
K - Kramer	W - Water-Cooled	H - Hermetic O - Scrolls		E - Extended Medium L - Low M - Medium	4S - Multiple Refrigerants 44 - R-404A	D - 208-230/1/60 E - 208-230/3/60 G - 460/3/60	

WATER-COOLED CONDENSING UNITS



Next-Gen WC-Series - 1/2 - 6 HP Water-Cooled Condensing Units

Water-Cooled - Hermetic Compressor - Configurable Base Models

Includes Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit

	Frame Size	Nom. H.P.	Compressor Model Number	Model Number	List Price (\$US)			4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
					208-230/1/60	208-230/3/60	460/3/60		
EXTENDED MEDIUM TEMPERATURE	FW1	0.5	RST45C1E	KWH055E4S*A	6,781	—	—	155	152
	FW1	0.5	RST55C1E	KWH080E4S*A	6,922	—	—	155	156
	FW1	.75	RST64C1E	KWH090E4S*A	7,131	—	—	155	160
	FW1	.75	RST70C1E	KWH100E4S*A	7,701	7,962	—	155	167
	FW2	1	RST97C1E	KWH125E4S*A	8,253	8,188	—	175	195
	FW2	1.5	CS10K6E	KWH150E44*A	8,024	8,419	9,392	175	205
	FW2	2	CS12K6E	KWH200E44*A	8,862	9,627	—	192	228
	FW3	2.5	CS14K6E	KWH250E44*A	9,512	10,200	10,832	192	235
	FW3	3	CS18K6E	KWH300E44*A	11,255	11,656	12,117	210	253
	FW4	3	CS20K6E	KWH325E44*A	11,796	12,237	12,636	210	273
LOW TEMP.	FW1	1.5	CF06K6E	KWH150L44*A	8,067	8,283	—	158	195
	FW2	2	CF09K6E	KWH200L44*A	8,379	8,594	9,270	192	243
	FW3	3	CF12K6E	KWH300L44*A	11,893	12,181	12,377	210	255

1. Factory Mounted Options & Shipped-Loose Accessories are found on Page 101
2. “*” represents Voltage. “D” for 208-230/1/60, “E” for 280-230/3/60 and “G” for 460/3/60

“—” = Not Available

Next-Gen WC-Series - 1/2 - 6 HP Water-Cooled Condensing Units

Water-Cooled - Scroll Compressor - Configurable Base Models

Includes Liquid Line Kit with Filter/Drier and Sight Glass with Moisture Indicator, and Defrost Timer or Kit

	Frame Size	Nom. H.P.	Compressor Model Number	Model Number	List Price (\$US)			4 Year Compressor Protection Plan (NET PRICE ADDER \$US)	Approx. Ship Weight (lbs)
					208-230/1/60	208-230/3/60	460/3/60		
MEDIUM TEMP.	FW1	1/2	ZB06KAE	KWO060M4S*A	12,113	12,131	–	286	195
	FW1	1/2	ZB07KAE	KWO080M4S*A	12,233	12,274	–	286	195
	FW1	1	ZB08KAE	KWO100M4S*A	12,352	12,433	–	286	195
EXTENDED MEDIUM TEMPERATURE	FW1	1-1/3	ZS09KAE	KWO130E4S*A	12,488	12,614	13,076	286	195
	FW2	1-1/2	ZS11KAE	KWO150E4S*A	13,360	13,488	13,949	286	205
	FW2	1-3/4	ZS13KAE	KWO180E4S*A	13,679	13,804	14,265	286	210
	FW3	2	ZS15KAE	KWO200E4S*A	13,916	14,040	14,503	286	215
	FW3	2-1/2	ZS19KAE	KWO250E4S*A	14,076	14,231	14,777	286	230
	FW4	3	ZS21KAE	KWO300E4S*A	14,289	14,472	15,105	374	305
	FW4	3-1/2	ZS26KAE	KWO350E4S*A	15,181	15,376	15,827	374	325
	FW4	4	ZS29KAE	KWO400E4S*A	15,665	15,883	16,318	392	352
	FW4	4-1/2	ZS33KAE	KWO450E4S*A	15,466	15,685	16,255	392	375
	FW4	6	ZS38K4E	KWO500E4S*A	16,240	16,464	17,166	402	383
	FW4	6-1/2	ZS45K4E	KWO600E4S*A	–	19,002	19,307	402	405
LOW TEMPERATURE	FW2	1	ZF03KAE	KWO100L4S*A	12,692	13,392	–	286	230
	FW2	1-1/3	ZF04KAE	KWO130L4S*A	13,004	13,625	–	286	230
	FW2	1-1/2	ZF05KAE	KWO160L4S*A	13,407	13,945	–	286	230
	FW2	2	ZF07KAE	KWO230L4S*A	14,164	14,352	14,802	286	230
	FW3	2-1/2	ZF08K4E	KWO250L4S*A	14,653	14,860	15,018	286	240
	FW3	3	ZF09K4E	KWO300L4S*A	15,008	15,230	17,054	374	245
	FW3	3-1/2	ZF11K4E	KWO350L4S*A	15,688	15,912	16,285	374	255
	FW4	4	ZF13K4E	KWO400L4S*A	16,364	16,575	16,951	392	352
	FW4	5	ZF15K4E	KWO500L4S*A	16,575	16,781	17,171	402	367
	FW4	6	ZF18K4E	KWO600L4S*A	–	18,918	19,946	402	383

1. Factory Mounted Options & Shipped-Loose Accessories are found on Page 101

2. "*" represents Voltage. "D" for 208-230/1/60, "E" for 280-230/3/60 and "G" for 460/3/60

"–" = Not Available

WATER-COOLED CONDENSING UNITS



Next-Gen WC-Series - 1/2 - 6 HP Water-Cooled Condensing Units

Options

Option Description (All Options are Factory Mounted unless otherwise noted)	H.P Range/ Cabinet	List Price Adder (\$US)
Water Regulating Valve (Shipped-Loose)	0.5 - 2.0	630
	2.5 - 3.5	683
	4.0 - 4.5	767
	5.0 - 6.5	1,130
Liquid Line with Premium Components: Replaceable Core Filter/Drier & Sight Glass	FW4	667
Suction Line Components: Sealed Filter	FW1	471
	FW2-FW4	561
Suction Line Components: Replaceable Core Filter	FW4	669
Sealed Suction Line Filter	0.5 - 2.5	601
Suction Accumulator (Cannot be ordered without Suction Line components)	FW1	725
	FW2-FW4	1,119
Pumpdown Toggle Switch	ALL	463
Phase Loss Monitor	ALL	1,610
Cupronickle Heat Exchanger	ALL	Contact Factory
Two-Tiered Stacking Rack (Shipped-Loose)	ALL	Contact Factory

For Defrost Kit Options, please see page 70

APEX - Top Mounted Refrigeration System

Medium Temperature - Air Defrost

Please note, the below models were discontinued in anticipation for the DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability

Voltage	Indoor Power Cord?	Outdoor			Indoor			4 Year Compressor Protection Plan (NET PRICE ADDER)
		Model umber	List Price (\$US)	Weight (lbs) NET/SHIP	Model Number	List Price (\$US)	Weight (lbs) NET/SHIP	
115/1/60	Yes	—	—	—	XN026MA44AE	8,409	120 / 185	104
115/1/60	Yes	—	—	—	XN029MA44AE	9,209	120 / 185	104
115/1/60	Yes	—	—	—	XN037MA44AE	9,499	125 / 190	104
115/1/60	Yes	—	—	—	XN050MA44AE	12,567	210 / 305	104
208-230/1/60	Yes	XT050MA44DE	14,282	220 / 360	XN050MA44DE	12,577	210 / 305	104
208-230/1/60	Yes	XT068MA44DE	15,638	230 / 370	XN068MA44DE	14,544	220 / 315	104
208-230/1/60	Yes	XT076MA44DE	17,025	230 / 375	XN076MA44DE	15,539	220 / 315	104
208-230/1/60	Yes	XT106MA44DE	19,148	310 / 485	XN106MA44DE	18,512	295 / 420	106
208-230/3/60	No	XT106MA44EE	19,084	320 / 495	XN106MA44EE	17,367	305 / 430	106
208-230/1/60	No	XT134MA44DE	20,964	325 / 500	XN134MA44DE	20,722	310 / 435	129
208-230/3/60	No	XT134MA44EE	20,841	325 / 500	XN134MA44EE	18,993	310 / 435	129

“—” = Not Available

Low Temperature - Electric Defrost

Please note, the below models were discontinued in anticipation for the DOE AWEF regulations. Limited Inventory is available. Refer to our websites Equipment Inventory tool or contact factory for current availability

Voltage	Indoor Power Cord?	Outdoor			Indoor			4 Year Compressor Protection Plan (NET PRICE ADDER)
		Model Number	List Price (\$US)	Weight (lbs) NET/SHIP	Model Number	List Price (\$US)	Weight (lbs) NET/SHIP	
115/1/60	Yes	—	—	—	XN018LE44AE	13,756	140 / 200	104
115/1/60	Yes	—	—	—	XN024LE44AE	15,638	210 / 305	104
208-230/1/60	Yes	XT024LE44DE	16,410	225 / 365	XN024LE44DE	16,582	210 / 305	104
208-230/1/60	Yes	XT031LE44DE	18,445	255 / 400	XN031LE44DE	16,515	245 / 340	104
208-230/1/60	Yes	XT043LE44DE	21,132	255 / 400	XN043LE44DE	18,390	245 / 340	106
208-230/1/60	Yes	XT051LE44DE	23,859	320 / 510	XN051LE44DE	21,102	315 / 445	106
208-230/3/60	No	XT051LE44EE	23,665	320 / 510	XN051LE44EE	21,097	315 / 445	106
208-230/1/60	No	XT068LE44DE	25,410	335 / 515	XN068LE44DE	22,642	320 / 450	125
208-230/3/60	No	XT068LE44EE	25,394	335 / 515	XN068LE44EE	22,624	320 / 450	125

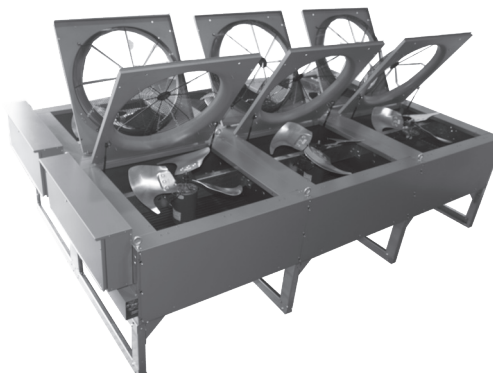
“—” = Not Available

AIR-COOLED CONDENSERS

KRAMER

Quantum Air™ Large Air-Cooled Condensers

Our remote Air Cooled Condensers feature an innovative design that provides a wide array of solutions focusing on performance, energy efficiency, reduced sound output, and other attributes to meet the needs of grocery, supermarket, industrial cooling and commercial warehousing industries. For easy installation and serviceability, the units feature lifting eyes, hinged leg design, LED control panel lighting, and hinged fan panels. The condensers are available with 1 to 14 fans in single and double fan width models with vertical or horizontal air flow.



STANDARD FEATURES

- Inverter Duty rail mounted motors
- Vertical air flow
- Motors with inherent thermal overload protection
- 3/8"refrigerant saving copper tube, aluminum fin coils*
- 650 PSIG working pressure
- Vinyl coated heavy gauge steel fan guards
- Swept wing fan/Venturi improves airflow and sound
- Hinged Venturi panels for easy servicing
- Hinged leg design for simple installation
- Proprietary floating coil design
- Thru-the-door non-fused disconnect switch
- Heavy gauge painted galvanized steel construction
- Heavy duty lifting eyes for equipment rigging
- UL and cUL listed for outdoor use
- LED control panel lighting

*Models with 1 to 4 fans in length have 3/8" copper tubing, which results in using less refrigerant. Models with 5 to 7 fans in length use 1/2" copper tubing

Quantum Air™ Large Air-Cooled Condensers Nomenclature:

CONFIGURABLE BASE MODEL							
K	D	D	087	G	D	3	A
Brand	Series	Width	Capacity*	Voltage	Motor	Number of Fans	Vintage
K - Kramer	D - Condenser	S - Single Wide D - Double Wide	MBTUH	E - 208-230/3/60 G - 460/3/60 N - 200-220/3/50 Q - 380/3/50 X - Non-Catalogued	B - 1140 RPM, 1.5 HP D - 850 RPM, 1.5 HP L - 850 RPM, 1 HP E - 550 RPM, 1/3 HP G - 900 RPM Rail Mount Variable Speed EC K - 1200 RPM Rail Mount Variable Speed EC	1 - 7	

*Capacity at 10 FPI per 1°F TD

Quantum Air™ Large Air-Cooled Condensers

Models with 1140 RPM, 1.5 HP Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS004^B1A	10,012	10,609	11,206	11,803	1 x 1	350
	KDS006^B1A	12,745	13,342	13,939	14,536	1 x 1	375
	KDS007^B1A	14,235	14,832	15,429	16,026	1 x 1	400
	KDS012^B2A	21,538	22,135	22,732	23,329	1 x 2	725
	KDS015^B2A	29,420	30,017	30,614	31,211	1 x 2	750
	KDS018^B2A	34,751	35,348	35,945	36,542	1 x 2	775
	KDS022^B3A	43,342	43,939	44,536	45,133	1 x 3	1,125
	KDS027^B3A	50,268	50,865	51,462	52,059	1 x 3	1,150
	KDS030^B4A	60,677	61,274	61,871	62,468	1 x 4	1,500
	KDS036^B4A	68,403	69,000	69,597	70,194	1 x 4	1,525
	KDS039^B5A	75,858	76,455	77,052	77,649	1 x 5	1,875
	KDS047^B5A	87,866	88,463	89,060	89,657	1 x 5	1,900
	KDS056^B6A	105,278	105,875	106,472	107,069	1 x 6	2,275
	KDS065^B7A	123,779	124,376	124,973	125,570	1 x 7	2,650
Double Fan Width	KDD022^B2A	45,036	45,633	46,230	46,827	2 x 2	1,500
	KDD030^B2A	59,336	59,933	60,530	61,127	2 x 2	1,525
	KDD036^B2A	68,801	69,398	69,995	70,592	2 x 2	1,550
	KDD045^B3A	89,060	89,657	90,254	90,851	2 x 3	2,275
	KDD054^B3A	103,689	104,286	104,883	105,480	2 x 3	2,300
	KDD059^B4A	119,424	120,021	120,618	121,215	2 x 4	3,025
	KDD072^B4A	137,198	137,795	138,392	138,989	2 x 4	3,050
	KDD078^B5A	152,313	152,910	153,507	154,104	2 x 5	3,775
	KDD094^B5A	176,588	177,185	177,782	178,379	2 x 5	3,800
	KDD113^B6A	211,129	211,726	212,323	212,920	2 x 6	4,550
	KDD131^B7A	248,742	249,339	249,936	250,533	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

AIR-COOLED CONDENSERS



Quantum Air™ Large Air-Cooled Condensers

Models with 850 RPM, 1.5 HP Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS004^D1A	9,909	10,506	11,103	11,700	1 x 1	350
	KDS005^D1A	12,665	13,262	13,859	14,456	1 x 1	375
	KDS007^D1A	14,114	14,711	15,308	15,905	1 x 1	400
	KDS010^D2A	22,011	22,608	23,205	23,802	1 x 2	725
	KDS014^D2A	29,332	29,929	30,526	31,123	1 x 2	750
	KDS015^D2A	32,462	33,059	33,656	34,253	1 x 2	775
	KDS021^D3A	43,598	44,195	44,792	45,389	1 x 3	1,125
	KDS024^D3A	49,202	49,799	50,396	50,993	1 x 3	1,150
	KDS028^D4A	59,380	59,977	60,574	61,171	1 x 4	1,500
	KDS032^D4A	66,369	66,966	67,563	68,160	1 x 4	1,525
	KDS035^D5A	72,804	73,401	73,998	74,595	1 x 5	1,875
	KDS043^D5A	86,917	87,514	88,111	88,708	1 x 5	1,900
	KDS052^D6A	104,413	105,010	105,607	106,204	1 x 6	2,275
	KDS060^D7A	122,505	123,102	123,699	124,296	1 x 7	2,650
Double Fan Width	KDD019^D2A	43,454	44,051	44,648	45,245	2 x 2	1,500
	KDD028^D2A	59,167	59,764	60,361	60,958	2 x 2	1,525
	KDD031^D2A	64,451	65,048	65,645	66,242	2 x 2	1,550
	KDD041^D3A	88,324	88,921	89,518	90,115	2 x 3	2,275
	KDD048^D3A	99,878	100,475	101,072	101,669	2 x 3	2,300
	KDD055^D4A	119,483	120,080	120,677	121,274	2 x 4	3,025
	KDD065^D4A	133,608	134,205	134,802	135,399	2 x 4	3,050
	KDD069^D5A	146,146	146,743	147,340	147,937	2 x 5	3,775
	KDD086^D5A	174,729	175,326	175,923	176,520	2 x 5	3,800
	KDD103^D6A	209,525	210,122	210,719	211,316	2 x 6	4,550
	KDD121^D7A	245,637	246,234	246,831	247,428	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

Quantum Air™ Large Air-Cooled Condensers

Models with 850 RPM, 1.0 HP Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS004^L1A	9,262	9,859	10,456	11,053	1 x 1	350
	KDS006^L1A	11,989	12,586	13,183	13,780	1 x 1	375
	KDS008^L1A	14,331	14,928	15,525	16,122	1 x 1	400
	KDS010^L2A	20,709	21,306	21,903	22,500	1 x 2	725
	KDS012^L2A	25,971	26,568	27,165	27,762	1 x 2	750
	KDS015^L2A	31,274	31,871	32,468	33,065	1 x 2	775
	KDS019^L3A	41,277	41,874	42,471	43,068	1 x 3	1,125
	KDS023^L3A	47,068	47,665	48,262	48,859	1 x 3	1,150
	KDS026^L4A	57,287	57,884	58,481	59,078	1 x 4	1,500
	KDS030^L4A	64,733	65,330	65,927	66,524	1 x 4	1,525
	KDS032^L5A	69,979	70,576	71,173	71,770	1 x 5	1,875
	KDS040^L5A	85,638	86,235	86,832	87,429	1 x 5	1,900
	KDS048^L6A	103,431	104,028	104,625	105,222	1 x 6	2,275
	KDS056^L7A	121,124	121,721	122,318	122,915	1 x 7	2,650
Double Fan Width	KDD017^L2A	40,542	41,139	41,736	42,333	2 x 2	1,500
	KDD026^L2A	57,265	57,862	58,459	59,056	2 x 2	1,525
	KDD030^L2A	64,759	65,356	65,953	66,550	2 x 2	1,550
	KDD038^L3A	86,867	87,464	88,061	88,658	2 x 3	2,275
	KDD046^L3A	100,861	101,458	102,055	102,652	2 x 3	2,300
	KDD051^L4A	116,819	117,416	118,013	118,610	2 x 4	3,025
	KDD060^L4A	132,468	133,065	133,662	134,259	2 x 4	3,050
	KDD063^L5A	142,101	142,698	143,295	143,892	2 x 5	3,775
	KDD080^L5A	174,104	174,701	175,298	175,895	2 x 5	3,800
	KDD097^L6A	209,216	209,813	210,410	211,007	2 x 6	4,550
	KDD113^L7A	245,275	245,872	246,469	247,066	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

AIR-COOLED CONDENSERS



Quantum Air™ Large Air-Cooled Condensers

Models with 550 RPM, 1/3 HP Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS004^E1	10,693	11,290	11,887	12,484	1 x 1	350
	KDS005^E1	12,590	13,187	13,784	14,381	1 x 1	375
	KDS006^E1	14,184	14,781	15,378	15,975	1 x 1	400
	KDS008^E2	21,675	22,272	22,869	23,466	1 x 2	725
	KDS011^E2	28,380	28,977	29,574	30,171	1 x 2	750
	KDS012^E2	31,321	31,918	32,515	33,112	1 x 2	775
	KDS016^E3	43,714	44,311	44,908	45,505	1 x 3	1,125
	KDS018^E3	47,793	48,390	48,987	49,584	1 x 3	1,150
	KDS021^E4	60,074	60,671	61,268	61,865	1 x 4	1,500
	KDS025^E4	67,139	67,736	68,333	68,930	1 x 4	1,525
	KDS028^E5	76,435	77,032	77,629	78,226	1 x 5	1,875
	KDS032^E5	84,456	85,053	85,650	86,247	1 x 5	1,900
	KDS040^E6	107,406	108,003	108,600	109,197	1 x 6	2,275
	KDS046^E7	125,662	126,259	126,856	127,453	1 x 7	2,650
Double Fan Width	KDD016^E2	46,978	47,575	48,172	48,769	2 x 2	1,500
	KDD021^E2	60,074	60,671	61,268	61,865	2 x 2	1,525
	KDD025^E2	66,559	67,156	67,753	68,350	2 x 2	1,550
	KDD032^E3	92,420	93,017	93,614	94,211	2 x 3	2,275
	KDD037^E3	100,935	101,532	102,129	102,726	2 x 3	2,300
	KDD043^E4	123,837	124,434	125,031	125,628	2 x 4	3,025
	KDD050^E4	137,486	138,083	138,680	139,277	2 x 4	3,050
	KDD055^E5	158,023	158,620	159,217	159,814	2 x 5	3,775
	KDD063^E5	172,960	173,557	174,154	174,751	2 x 5	3,800
	KDD080^E6	219,071	219,668	220,265	220,862	2 x 6	4,550
	KDD093^E7	254,863	255,460	256,057	256,654	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

Quantum Air™ Large Air-Cooled Condensers

Models with 1200 RPM, Variable Speed EC Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS005^K1A	18,164	18,761	19,358	19,955	1 x 1	350
	KDS006^K1A	20,898	21,495	22,092	22,689	1 x 1	375
	KDS008^K1A	22,388	22,985	23,582	24,179	1 x 1	400
	KDS013^K2A	37,842	38,439	39,036	39,633	1 x 2	725
	KDS016^K2A	45,723	46,320	46,917	47,514	1 x 2	750
	KDS019^K2A	51,056	51,653	52,250	52,847	1 x 2	775
	KDS024^K3A	67,800	68,397	68,994	69,591	1 x 3	1,125
	KDS028^K3A	74,723	75,320	75,917	76,514	1 x 3	1,150
	KDS032^K4A	93,287	93,884	94,481	95,078	1 x 4	1,500
	KDS038^K4A	101,012	101,609	102,206	102,803	1 x 4	1,525
	KDS041^K5A	116,619	117,216	117,813	118,410	1 x 5	1,875
	KDS049^K5A	128,628	129,225	129,822	130,419	1 x 5	1,900
	KDS059^K6A	154,194	154,791	155,388	155,985	1 x 6	2,275
	KDS069^K7A	180,845	181,442	182,039	182,636	1 x 7	2,650
Double Fan Width	KDD023^K2A	77,649	78,246	78,843	79,440	2 x 2	1,500
	KDD032^K2A	91,945	92,542	93,139	93,736	2 x 2	1,525
	KDD038^K2A	101,412	102,009	102,606	103,203	2 x 2	1,550
	KDD047^K3A	137,972	138,569	139,166	139,763	2 x 3	2,275
	KDD057^K3A	152,603	153,200	153,797	154,394	2 x 3	2,300
	KDD063^K4A	184,644	185,241	185,838	186,435	2 x 4	3,025
	KDD075^K4A	202,416	203,013	203,610	204,207	2 x 4	3,050
	KDD082^K5A	233,839	234,436	235,033	235,630	2 x 5	3,775
	KDD099^K5A	258,111	258,708	259,305	259,902	2 x 5	3,800
	KDD118^K6A	308,956	309,553	310,150	310,747	2 x 6	4,550
	KDD138^K7A	362,888	363,485	364,082	364,679	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

AIR-COOLED CONDENSERS



Quantum Air™ Large Air-Cooled Condensers

Models with 900 RPM, Variable Speed EC Motors

	Model Number	List Price (\$US)				Fan Configuration	Approx. Net Weight (lbs)
		8 FPI	10 FPI	12 FPI	14 FPI		
Single Fan Width	KDS004^G1A	18,164	18,761	19,358	19,955	1 x 1	350
	KDS005^G1A	20,898	21,495	22,092	22,689	1 x 1	375
	KDS007^G1A	22,388	22,985	23,582	24,179	1 x 1	400
	KDS010^G2A	37,842	38,439	39,036	39,633	1 x 2	725
	KDS014^G2A	45,723	46,320	46,917	47,514	1 x 2	750
	†KDS015^G2A	51,056	51,653	52,250	52,847	1 x 2	775
	KDS021^G3A	67,800	68,397	68,994	69,591	1 x 3	1,125
	†KDS025^G3A	74,723	75,320	75,917	76,514	1 x 3	1,150
	KDS028^G4A	93,287	93,884	94,481	95,078	1 x 4	1,500
	†KDS033^G4A	101,012	101,609	102,206	102,803	1 x 4	1,525
	KDS035^G5A	116,619	117,216	117,813	118,410	1 x 5	1,875
	†KDS044^G5A	128,628	129,225	129,822	130,419	1 x 5	1,900
	†KDS052^G6A	154,194	154,791	155,388	155,985	1 x 6	2,275
	†KDS061^G7A	180,845	181,442	182,039	182,636	1 x 7	2,650
Double Fan Width	KDD020^G2A	77,649	78,246	78,843	79,440	2 x 2	1,500
	KDD028^G2A	91,945	92,542	93,139	93,736	2 x 2	1,525
	†KDD032^G2A	101,412	102,009	102,606	103,203	2 x 2	1,550
	KDD042^G3A	137,972	138,569	139,166	139,763	2 x 3	2,275
	†KDD049^G3A	152,603	153,200	153,797	154,394	2 x 3	2,300
	KDD056^G4A	184,644	185,241	185,838	186,435	2 x 4	3,025
	†KDD065^G4A	202,416	203,013	203,610	204,207	2 x 4	3,050
	KDD070^G5A	233,839	234,436	235,033	235,630	2 x 5	3,775
	†KDD087^G5A	258,111	258,708	259,305	259,902	2 x 5	3,800
	†KDD105^G6A	308,956	309,553	310,150	310,747	2 x 6	4,550
	†KDD122^G7A	362,888	363,485	364,082	364,679	2 x 7	5,300

Factory Installed Options and Shipped-Loose Accessories are located on pages 110 and 111

^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50

† These selected models fulfill California Title 24 condenser efficiency requirements when utilizing 10 FPI coils.

Quantum Air™ Large Air-Cooled Condensers

Quantum Air™ Large Air-Cooled Condensers Options

	Fan Configuration												
	1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7	2 X 2	2 X 3	2 X 4	2 X 5	2 X 6	2 X 7
Disconnect Options													
Through the door non-fused disconnect	Standard												
Through the door fused disconnect	655	655	1,107	1,259	1,381	1,511	1,636	1,259	1,511	1,949	2,393	2,836	3,276
Main Power Circuit Breaker	1,342	1,342	1,662	1,662	1,662	1,662	1,662	1,662	1,662	1,780	1,780	1,780	1,780
Bladed Safety Switch, Non-fused	1,195	1,195	2,304	2,304	2,304	2,304	2,304	2,304	2,304	2,908	2,908	2,908	2,908
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	482	482	482	482	482	482	482	482	482	482	482	482	482
Fan Cycling Options - Requires Contactor Option													
Ambient fan cycling†	–	1,334	1,818	2,424	3,026	3,631	4,238	1,334	1,818	2,424	3,026	3,631	4,238
Mechanical Pressure fan cycling (per circuit) W/O Header†	–	2,006	2,197	2,926	3,660	4,392	5,119	2,006	2,197	2,926	3,660	4,392	5,119
Mechanical Pressure fan cycling (per circuit) W/ Header†	–	2,557	3,292	4,027	4,764	5,499	6,249	2,557	3,292	4,027	4,764	5,499	6,249
Electronic Pressure fan cycling (per circuit) W/O Header†	–	2,082	2,609	4,332	6,059	7,783	9,141	2,082	2,609	4,332	6,059	7,783	9,141
Electronic Pressure fan cycling (per circuit) W/ Header†	–	2,956	4,679	6,402	8,132	9,473	11,131	2,956	4,679	6,402	8,132	9,473	11,131
Note: Header fan is continuous run and not cycled.													
Electronic Header End Fan Speed Control - Req. Contactor & Fan Cycle on 1x2 and Larger													
Variable speed header end fan (1 or 2 Circuit) ambient controlled†	Contact Factory												
Variable speed header end fan (1 or 2 Circuit) Electronic control - pressure†	Contact Factory												
Variable Frequency Drive (VFD)													
VFD Package - Shipped Loose†	Contact Factory												
VFD Package - Factory Mounted†	Contact Factory												
Control Boards - Items with this mark also ‡ require the contactor option													
CPC relay board + xfmr (1x1 thru 2x4 config) ‡	4,306	4,306	4,306	4,306	4,306	4,306	4,306	4,306	4,306	4,306	–	–	–
CPC relay boards (2)+ xfmr (2x5 thru 2x7 config) ‡	–	–	–	–	–	–	–	–	–	–	8,075	8,075	8,075
CPC relay board condenser split 50/50 (1 board + relay)	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481	4,481
CPC analog speed control board and transformer	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508	4,508
DANFOSS relay board + xfmr (1x1 thru 2x4 config) ‡	4,322	4,322	4,322	4,322	4,322	4,322	4,322	4,322	4,322	4,322	–	–	–
DANFOSS relay boards (2) + xfmr (2x5 thru 2x7 config) ‡	–	–	–	–	–	–	–	–	–	–	8,861	8,861	8,861
DANFOSS relay board condenser split 50/50 (relay) ‡	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348	6,348
DANFOSS analog speed control board and transformer	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991	4,991
VSEC Stand alone motor control (C450)	Contact Factory												
Control Options													
Control Circuit Breaker (2P - 15A)	433	433	433	433	433	433	433	433	433	433	433	433	433
Control circuit transformer†	816	816	816	816	816	816	816	816	816	816	816	816	816

* Multiple valves or manifolds are required for multi-circuit condensers.

** Contact Application Engineering to obtain price quotes for special fin materials or coatings.

† This option is not available for condensers with VSEC motors.

†† Units with VSEC motors include individual circuit breaker. Paired circuit breakers are not available.

“–” = Not Available

Quantum Air™ Large Air-Cooled Condensers Options continued on next page.

AIR-COOLED CONDENSERS



Quantum Air™ Large Air-Cooled Condensers

Quantum Air™ Large Air-Cooled Condensers Options

	Fan Configuration												
	1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7	2 X 2	2 X 3	2 X 4	2 X 5	2 X 6	2 X 7
Fan Control Options (Contactors)													
Individual Motor Contactors†	343	686	1,029	1,372	1,715	2,058	2,401	1,372	2,058	2,744	3,430	4,116	4,802
Paired Motor Contactors†	–	–	–	–	–	–	–	686	1,029	1,372	1,715	2,058	2,401
NEMA rated Contactors - Individual†	1,406	2,812	4,218	5,624	7,030	8,436	9,842	5,624	8,436	11,248	14,060	16,872	19,684
NEMA rated Contactors - PAIRED†	–	–	–	–	–	–	–	2,812	4,218	5,624	7,030	8,436	9,842
Individual motor fuses†	346	692	1,038	1,384	1,730	2,076	2,422	1,384	2,076	2,768	3,460	4,152	4,844
Paired motor fuses†	–	–	–	–	–	–	–	692	1,038	1,384	1,730	2,076	2,422
Individual circuit breakers††	959	1,918	2,877	3,836	4,795	5,754	6,713	3,836	5,754	7,672	9,590	11,508	13,426
Paired circuit breakers††	–	–	–	–	–	–	–	1,918	2,877	3,836	4,795	5,754	6,713
Individual motor terminal boards†	243	486	729	972	1,215	1,458	1,701	972	1,458	1,944	2,430	2,916	3,402
Paired motor terminal blocks†	–	–	–	–	–	–	–	486	729	972	1,215	1,458	1,701
Fan toggle switches - per fan (to control contactors)†	144	288	432	576	720	864	1,008	576	864	1,152	1,440	1,728	2,016
Fan toggle switches - PAIRED (to control contactors)†	–	–	–	–	–	–	–	288	432	576	720	864	1,008
Fan toggle switches - per fan (to control Motors)†	655	1,310	1,965	2,620	3,275	3,930	4,585	2,620	3,930	5,240	6,550	7,860	9,170
Fan toggle switches - PAIRED (to control Motors)†	–	–	–	–	–	–	–	1,310	1,965	2,620	3,275	3,930	4,585
Build Options**													
Horizontal Air Discharge	968	1,415	2,085	2,559	3,009	3,462	3,884	2,833	4,126	5,116	6,017	6,920	7,772
Stainless Steel Housing	Contact Application Engineering												
Leg length - 21" or 30" - Standard Vertical air discharge	203	404	604	604	604	745	946	404	604	604	604	745	946
Leg length - 46" (Vertical air discharge only)	241	478	715	715	715	880	1,113	478	715	715	715	880	1,113
Box Style Leg at every location- 25" (Vertical air discharge only)	702	1,052	1,405	1,754	2,105	2,454	2,806	1,052	1,405	1,754	2,105	2,454	2,806
Sealtite wiring to motor rail	301	373	566	763	940	1,136	1,324	763	1,136	1,511	1,893	2,269	2,634
Sealtite wiring to electrical box	1,000	1,997	2,997	3,996	4,994	5,993	6,994	3,996	5,993	7,991	9,990	11,987	13,985
Condenser Base with 18" legs (Vertical air discharge only)	2,449	3,534	4,622	6,619	8,008	9,181	10,663	3,534	4,622	6,619	8,008	9,548	11,091
Condenser Base with 30 or 46" legs (Vertical air discharge only)	2,622	3,882	5,139	6,555	8,872	10,180	11,829	3,882	5,139	7,313	8,872	10,586	12,302
Condenser / Receiver Assembly (Vertical air discharge only)	Contact Application Engineering												
Header End control panel mounting (Specify location change)	No Additional Charge for this Feature												

* Multiple valves or manifolds are required for multi-circuit condensers.

** Contact Application Engineering to obtain price quotes for special fin materials or coatings.

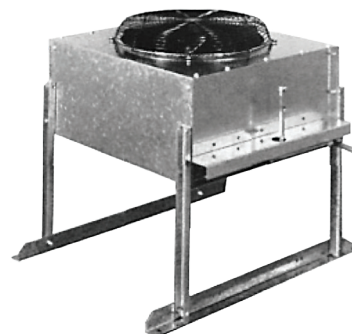
† This option is not available for condensers with VSEC motors.

†† Units with VSEC motors include individual circuit breaker. Paired circuit breakers are not available.

“–” = Not Available

Small Air-Cooled Condensers

Our small Remote Air Cooled Condensers' innovative design provides a wide array of solutions focusing on performance, energy efficiency, reduced sound output and other requirements to meet the needs of the grocery, supermarket, industrial cooling and commercial warehousing industries.



STANDARD FEATURES

- Direct drive motor arrangement
- Vertical air flow
- 1075 or 850 RPM motors
- Motors with inherent thermal overload protection
- Copper tube, aluminum fin coils
- Leak tested at 450 PSIG
- Vinyl coated heavy gauge steel fan guards
- Heavy gauge galvanized steel construction for superior corrosion resistance
- Internal divider isolates fan cells (2 fan models)
- Fan cycling head pressure control (2 fan models)
- Variable speed fan control (header end fan only)
- Flooded head pressure control
- Sub-cooling circuit
- Horizontal air flow
- Multi-circuited coils
- Wide selection of fin coatings and materials

Small Air-Cooled Condensers Nomenclature:

CONFIGURABLE BASE MODEL												
K	D	S	007	D	A	2	B	1	2	A	1	A
I	II	III	IV	V	VI	VII	VIII	IX	X	XI	XII	XIII
I. Model Series K – Kramer						IX. Coil Material and Coating Options* 1 – Aluminum fins 2 – Copper fins 3 – Al + AST coating 6 – Al + Heresite 7 – Al + Polyester coat - Pre Coated Fin Material X – Other						
II. Unit Type D – Condenser						X. Housing Material and Coatings* 2 – Galvanized 7 – Stainless Steel 316L X – Other						
III. Series S – Single fan wide						XI. Unit Design Configuration A – Vertical Fan Discharge, Standard Legs E – Vertical Fan Discharge, 30" Legs N – Horizontal Fan Discharge, Standard Legs						
IV. Capacity – Three Number Characters						XII. Circuit Splitting Options 1 – Full 2 – 50/50 X – Other						
V. Voltage Code A – 115V/1/60 G – 460V/3/60 D – 208-230V/1/60 X – Other E – 208-230V/3/60 Codes D, E, F, and G can be used F – 460V/1/60 with 50 or 60 Hz power						XIII. Revision Code – Single Alphanumeric Character A – Initial Release						
VI. Motor/Fan Type A – 1075 RPM, 0.33 HP, Metal Blade C – 850 RPM, 0.25 HP, Metal Blade H – 1075 RPM, 0.5 HP Totally Enclosed, Metal Blade X – Other												
VII. Length in Fans – 1 or 2												
VIII. Coil Density A – 8 fpi B – 10 fpi D – 14 fpi C – 12 fpi X – Other												
						* Contact Application Engineering to obtain price quotes for special fin materials or coatings.						

AIR-COOLED CONDENSERS

KRAMER

Small Air-Cooled Condensers

1075 RPM .33 HP MOTORS

Model Number	10 FPI List Price	Fan Configuration	Approx Net Weight (LBS.)
KDS001DA1B12A1A	\$3,642	1 x 1	80
KDS002DA1B12A1A	4,778	1 x 1	86
KDS003DA1B12A1A	5,337	1 x 1	107
KDS005DA1B12A1A	9,755	1 x 1	116
KDS007DA2B12A1A	12,216	1 x 2	164
KDS009DA2B12A1A	14,953	1 x 2	179
KDS011DA2B12A1A	16,788	1 x 2	195

850 RPM .25 HP MOTORS

Model Number	10 FPI List Price	Fan Config.	Approx Net Weight (LBS.)
KDS001DC1B12A1A	\$3,993	1 x 1	80
KDS002DC1B12A1A	5,729	1 x 1	86
KDS003DC1B12A1A	6,550	1 x 1	107
KDS004DC1B12A1A	10,340	1 x 1	116
KDS006DC2B12A1A	12,753	1 x 2	164
KDS008DC2B12A1A	16,033	1 x 2	179
KDS009DC2B12A1A	17,427	1 x 2	195

1075 RPM .33 HP MOTORS - Totally Enclosed

Model Number	10 FPI List Price	Fan Config.	Approx. Net Weight (LBS.)
KDS001DH1B12A1A	\$5,299	1 x 1	80
KDS002DH1B12A1A	6,436	1 x 1	86
KDS003DH1B12A1A	6,997	1 x 1	107
KDS005DH1B12A1A	11,411	1 x 1	116
KDS007DH2B12A1A	15,532	1 x 2	164
KDS009DH2B12A1A	18,267	1 x 2	179
KDS011DH2B12A1A	20,101	1 x 2	195

POSITION V - Available Voltage Options*

Voltage Code	Adders Per Fan section	Available Based Upon Position VI - Motor Options
A-115/1/60	N/C	Only available with motor option A
D-208-230/1/60	—	Available with motor options A & C
E-208-230/3/60	\$194	Available with motor options A, C
F-460/1/60	N/C	Available with motor options A & C
G-460/3/60	\$194	Available with motor options A, C

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

POSITION VI - Available Motor / Fan Type Options

Motor Type	Adder Per Fan	Available Based Upon Position V - Voltage Options
A - 1075, 0.33HP	—	Available in Voltage codes A, D, E, F, G
C - 850 RPM, 0.25HP	—	Available in Voltage codes D, E, F, G
H - 1075, 0.5 HP	—	Available in Voltage codes E, G

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

Position - VII - Indicates Length in Fans (1 or 2)

Position - VIII - Coil Density Options Price Add or Deduct (8FPI)

Fan Configuration	A - 8 FPI	B - 10 FPI	C - 12 FPI	D - 14 FPI
1 X 1	(\$488)	—	\$597	\$1,195
1 X 2	(\$975)	—	\$1,195	\$2,384

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base Model Feature

Position - IX - Coil Material and Coating Options**

Aluminum fins (Standard) / Copper fins / Other

No Coating (Standard) / Al + AST coating / Al + Heresite coating / Al + Polyester coat - Pre Coated Fin Material / Other

Position - X - Housing Material and Coating Options**

Galvanized (Standard) / Aluminum / Stainless Steel 316L / Other

Position - XI - Unit Design Configuration

Leg Configuration	Fan Config. 1 x 1	Fan Config. 1 x 2
A - Vertical Fan Discharge, Standard 15" Legs	—	—
E - Vertical Fan Discharge, 30" Legs	\$215	\$215
N - Horizontal Fan Discharge, Standard Legs	—	—

Position - XII - Circuit Splitting Options**

Full (Standard) / 50/50 / Multi-Circuiting / Subcooling Circuit / Other

Available Options**

Fan cycling head pressure control (2 fan model only)

Variable speed fan control (header end fan only)

Flooded head pressure control (shipped loose)

Notes:

* Codes D, E, F and G can be used with 50 or 60 Hz power.

** Contact Application Engineering to obtain price quotes for special fin materials, coating, circuit splitting and available options.

1. Horizontal discharge orientation is available using standard leg arrangement code A.

2. Floating coil is not available for small condensers.

Principal Terms and Conditions of Sale

1. Applicable Law and Terms of Sale: All orders shall be subject to the following terms and conditions notwithstanding any additional or contrary printed terms and conditions of Buyer. Such additional or contrary terms shall not bind Seller unless accepted in writing even though such terms do not materially alter the terms hereof. No oral statements, warranties, stipulations, representations or terms shall have any binding effect or be any part of the contract whatsoever.
2. Orders: All orders must be in writing and will be binding when our order acknowledgment is mailed. Orders are accepted subject to strikes, fires, accidents, and other causes beyond our reasonable control. Acceptance of your order is conditioned upon an agreement to hold us harmless by reason of delivery delays.
3. Prices: Prices are subject to change without notice, and all quotations, unless otherwise specified, are binding only for immediate acceptance. Prices are based on material made to Seller's standard tolerances, unless otherwise specified.
4. Freight: All products are shipped FOB Point of Shipment with full freight allowed on single orders with a net price value of \$10,000.00 or more, except surface coils and parts, within the continental USA (excluding Alaska and Hawaii). Shipments to destinations outside the continental USA, that meet freight allowance requirements, will incur charges for the additional transport beyond the USA border. Seller reserves the choice of transportation mode, carrier, and shipping point. If special routing (dedicated/contract haul, flatbed delivery, appointment to meet a crane, etc.) is required/requested for a purchase order of \$10,000.00 or greater, Buyer will be assessed a special delivery charge per truck. Charges of \$80 per hour resulting from excessive unloading time, beyond the allotted "free time" (two hours per stop on partial loads and/or full truck loads), as defined by the carrier, is subject to being passed on to the customer. The responsibility of the Seller shall cease upon delivery of product in good condition to a common carrier (TL, LTL, FLATBED, ETC. Since all goods are shipped at Buyer's risk, they should be examined carefully before signing delivery receipt. If common carrier tenders delivery of goods in damaged condition or if packages delivered do not correspond with the number called for on the freight bill, Buyer should insist on common carrier's agent (DRIVER) making notation of the condition of shortages or damage on delivery receipt. The Buyer should never refuse freight from the common carrier. Filing freight claims are under the responsibility of the Buyer, and this will enable them to secure prompt payment of claim for damaged or lost material. Sometimes damage or loss is not readily apparent, so it is suggested that Buyer thoroughly inspect each shipment as soon as it is received for concealed loss or damage. Refer to HTPG's 2019 Freight Policy for further information.
5. Taxes: Any sales, use, excise, or similar tax payable by Seller which is or may be imposed by any taxing authority upon manufacture, sale or delivery of goods covered by any order or any increase in rate of any such tax now in force, shall be added to the sales price; if not collected at the time of payment of sales price, Buyer will hold Seller harmless.
6. Limited Warranty: Seller warrants against defect in materials and workmanship in products which it manufactures for (1) year from date of installation or up to (18) eighteen months from the date of shipment, whichever event occurs first, when properly installed and operated under normal use. This guarantee does not include any labor or other charges made outside of the Seller's factory for replacement or repair of defective parts unless specifically stated in the body of the Seller's invoice. On parts not manufactured by Seller, such as motors, controls, valves and compressors we extend to the Buyer the same warranties made to us by the manufacturer. Seller's only liability under this warranty or otherwise shall be the repair or replacement (at Seller's option) of non-conforming goods or parts. Seller assumes no liability for incidental or consequential damages such as injury to person or property, or lost profits.
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8. Delivery: Seller shall not be liable for any delays in or failure of delivery due to acts of God or public authority, labor disputes, accidents, fires, floods, extreme weather conditions, failure of and delays by carriers, shortages of material, delays of a supplier, and any other cause beyond Seller's control. In no event shall Seller be liable for consequential or special damages arising out of a delay in or failure of delivery. Failure to meet estimated ship dates will not be considered sufficient cause of cancellation of orders.
9. Cancellations and Returned Goods: Permission to return any part or product must be obtained from Seller and may be subject to a restocking charge. Credits for new material accepted for return will be at the original sales price or current market price, whichever is lower, less handling and restocking charges. Buyer must prepay all transportation charges. Any costs for putting material in condition for resale will be charged to the Buyer. Shipment of material returned without factory authorization or not properly tagged with a Return Material Authorization Number or not freight prepaid cannot be received by Seller. Obsolete products or material made to special order are not returnable.
10. Catalog Materials and Drawings: Seller is not responsible for typographical errors or other errors of omission in Seller's catalogs or drawings.
11. Late Charge Provision: Buyer agrees to pay a late charge of 1-1/2% per month (18% per year) for any invoice or bill not paid within (30) thirty days of the date of the billing invoice.
12. Choices of law, Disputes: This agreement and the performance of the parties hereunder shall be construed in accordance with and governed by the laws of the State of Georgia and shall be deemed made in the state. Buyer irrevocably consents to the exclusive jurisdiction of the courts of Fulton County, on all matters arising out of or relating to this sale and Buyer further irrevocably consents to service of process by certified mail, return receipt requested, at Buyer's address set forth in the order acknowledgement.

The above terms and conditions apply to all orders placed with the Seller. Buyer acknowledges having read and understood these terms and conditions and agrees to abide by them upon placement of any order with the Seller. In the event it becomes necessary to refer the account to a collection agency or to institute legal action to obtain payment of the account, Buyer agrees to pay all reasonable attorney fees and court costs incurred by such action.