

KRAMER

MAY 2024

PRICE LIST

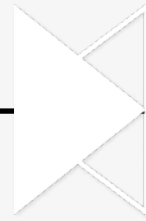
Equipment

KR2306PRICE



ENGINEERED FOR COOL.™

Commercial Refrigeration



ORDERS

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.



256-259-7400
Customer Service

1-800-288-9488
Equipment Orders

1-855-HTPARTS (1-855-487-2787)
Parts Orders



equipment@htpg.com

parts@htpg.com



Kramer.HTPG.com

WARRANTY

The Seller warrants against defect in materials and workmanship in products which it manufactures for (1) year from the 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 Sellers invoice. On parts not manufactured by HTPG, such as motors, controls, valves and compressors we extend to the Buyer the same warranties made to us by the manufacturer.

The Seller's only liability under this warranty or otherwise shall be the repair or replacement (at Seller's option) of nonconforming goods or parts. Seller assumes no liability for incidental or consequential damages such as injury to persons or property, or lost profits.

Claims must be submitted to our Warranty Group within 90 days of the repair.
To submit a claim, visit <https://www.htpg.com/submit-a-claim/>

VIEW TERMS & WARRANTY

Contents



Reach-In Unit Coolers

MODELS

REACH-IN NOMENCLATURE

Not all combinations of nomenclature are available.
For specific offering, see following pages or consult with one of our sales representatives.

SL	A	1	5	9	RP	A	S
Product Line	Defrost Type	# of Fans	Fins Per Inch (FPI)	Capacity	Coil Coating	Voltage	Motor Type
SL - Slim Temp WE - Wedge Temp FT - Flex Temp MUF - Mullion-Temp (Up flow) MDF - Mullion-Temp (Down flow) TT - T-Temp TW - Twin-Temp MTW - Mini Twin-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

REACH-IN UNIT COOLERS: SLIM TEMP SLA/SLE

900 TO 7,000 BTUH

Standard Features

- ▶ Fan motors totally enclosed, permanently lubricated and thermally protected
- ▶ Electrical and piping components are easily accessible by quick removal of drain pan
- ▶ Air or electric defrost models

Options

- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF) // Shaded Pole Motor

115 V		230 V		Dimensions (inches)		
Model #	List Price (\$US)	Model #	List Price (\$US)	Height	Length	Depth
SLA17-10RP-AS	1,311	SLA17-10RP-DS	1,378	4-3/4	16-1/2	13-1/2
SLA17-13RP-AS	1,649	SLA17-13RP-DS	1,767	4-3/4	20-1/2	13-1/2
SLA27-17RP-AS	1,884	SLA27-17RP-DS	2,014	4-3/4	24	14-1/2
SLA27-23RP-AS	2,404	SLA27-23RP-DS	2,511	4-3/4	31-1/2	14-1/2
SLA37-30RP-AS	2,963	SLA37-30RP-DS	3,168	4-3/4	40	14-1/2
SLA47-40RP-AS	3,982	SLA47-40RP-DS	4,260	4-3/4	53-1/2	14-1/2
SLA57-50RP-AS	5,126	SLA57-50RP-DS	5,439	6-3/4	53-1/2	14-1/2

Electric Defrost // Freezer Application // Standard Coil // Single Speed EC Motor

115 V		230 V		Dimensions (inches)		
Model #	List Price (\$US)	Model #	List Price (\$US)	Height	Length	Depth
SLE25-21-AE	5,433	SLE25-21-DE	5,433	6-3/4	24	15-1/2
SLE25-28-AE	6,151	SLE25-28-DE	6,151	6-3/4	31-1/2	15-1/2
SLE35-36-AE	7,720	SLE35-36-DE	7,720	6-3/4	38-1/2	15-1/2
SLE45-54-AE	10,494	SLE45-54-DE	10,494	6-3/4	48-1/4	16-1/2
		SLE35-70-DE	11,271	6-3/4	76-1/2	20-1/2

Electric Defrost // Freezer Application // Standard Coil // Shaded Pole Motor

115 V		230 V		Dimensions (inches)		
Model #	List Price (\$US)	Model #	List Price (\$US)	Height	Length	Depth
SLE15-9-AS	1,967	SLE15-9-DS	1,967	4-3/4	16-1/2	13-1/2
SLE15-12-AS	2,364	SLE15-12-DS	2,364	4-3/4	20-1/2	13-1/2
SLE25-16-AS	2,950	SLE25-16-DS	2,950	4-3/4	24	14-1/2
SLE25-21-AS	3,335	SLE25-21-DS	3,335	6-3/4	24	15-1/2
SLE25-28-AS	4,120	SLE25-28-DS	4,120	6-3/4	31-1/2	15-1/2
SLE35-36-AS	4,638	SLE35-36-DS	4,638	6-3/4	38-1/2	15-1/2
SLE45-54-AS	6,423	SLE45-54-DS	6,423	6-3/4	48-1/4	16-1/2
		SLE35-70-DS	8,093	6-3/4	76-1/2	20-1/2

\$78 List Adder for 3-prong Electrical Connector

No EC or PSC Motors on SLA Models

REACH-IN UNIT COOLERS: WEDGE-TEMP

1,200 TO 5,500 BTUH

Standard Features

- ▶ Air defrost
- ▶ Heavy gauge aluminum housing
- ▶ Front panel removable for easy access
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF)

Single Speed EC Motor				Shaded Pole			
115 V		230 V		115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
WE17-12RP-AE	2,510	WE17-12RP-DE	2,587	WE17-12RP-AS	1,537	WE17-12RP-DS	1,615
WE17-15RP-AE	2,583	WE17-15RP-DE	2,665	WE17-15RP-AS	1,604	WE17-15RP-DS	1,681
WE17-18RP-AE	2,616	WE17-18RP-DE	2,727	WE17-18RP-AS	1,642	WE17-18RP-DS	1,751
WE17-25RP-AE	2,874	WE17-25RP-DE	3,005	WE17-25RP-AS	1,884	WE17-25RP-DS	2,015
WE17-35RP-AE	3,578	WE17-35RP-DE	3,731	WE17-35RP-AS	2,593	WE17-35RP-DS	2,751
WE17-45RP-AE	4,321			WE17-45RP-AS	3,342	WE17-45RP-DS	3,627
WE18-55RP-AE	5,221			WE18-55RP-AS	4,220	WE18-55RP-DS	4,404

Model #	Dimensions (inches)		
	Height	Length	Depth
WE17-12	8-5/16	15-1/4	15-7/8
WE17-15	8-5/16	15-1/4	15-7/8
WE17-18	8-5/16	17-3/4	15-7/8
WE17-25	8-5/16	19-7/8	16-7/8
WE17-35	9-1/2	22-7/8	17-7/8
WE17-45	9-5/8	26-3/4	20-1/2
WE18-55	9-5/8	26-3/4	20-1/2

See page 4 for nomenclature

\$78 List Adder for 3-prong Electrical Connector

REACH-IN UNIT COOLERS: FLEX-TEMP

600 TO 3,100 BTUH

Standard Features

- ▶ Air defrost
- ▶ Heavy gauge aluminum housing
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF)

Single Speed EC Motor				Shaded Pole			
115 V		230 V		115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
FT18-17RP-AE	2,892	FT18-17RP-DE	3,037	FT18-6RP-AS	1,235	FT18-6RP-DS	1,265
FT18-23RP-AE	3,992			FT18-8RP-AS	1,331	FT18-8RP-DS	1,361
FT18-31RP-AE	4,411			FT28-12RP-AS	1,613	FT28-12RP-DS	1,773
				FT18-17RP-AS	1,848	FT18-17RP-DS	2,004
				FT18-23RP-AS	2,860	FT18-23RP-DS	3,017
				FT18-31RP-AS	3,315	FT18-31RP-DS	3,553

Model #	Dimensions (inches)		
	Height	Length	Depth
FT18-6	6-3/4	12-1/2	9
FT18-8	6-3/4	12-1/2	9
FT28-12	7-3/4	18	9
FT18-17	9-5/8	14	10-1/2
FT18-23	11-5/8	16-3/4	13
FT18-31	11-5/8	16-3/4	13

See page 4 for nomenclature

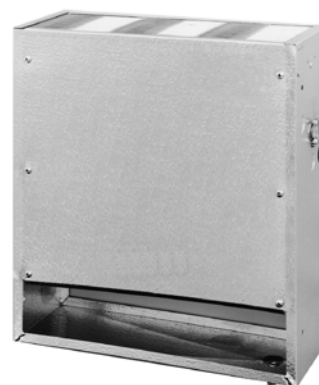
Units are supplied with 3-prong Electrical Connector

REACH-IN UNIT COOLERS: MULLION-TEMP

1,300 TO 2,300 BTUH

Standard Features

- ▶ Air defrost available in either upward or downward airflow
- ▶ Heavy gauge aluminum housing
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF)

DOWNWARD AIRFLOW

115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)
MDF27-13RP-AS	2,241	MDF27-13RP-DS	2,397
MDF27-17RP-AS	2,686	MDF27-17RP-DS	2,843
MDF37-23RP-AS	3,197	MDF37-23RP-DS	3,432

UPWARD AIRFLOW

115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)
MUF27-13RP-AS	2,241	MUF27-13RP-DS	2,397
MUF27-17RP-AS	2,686	MUF27-17RP-DS	2,843
MUF37-23RP-AS	3,197	MUF37-23RP-DS	3,432

Dimensions (inches)

Model #	Dimensions (inches)		
	Height	Length	Depth
MUF 27-13	17-1/8	15-5/8	5-5/8
MUF 27-17	17-1/8	15-5/8	5-5/8
MUF 37-23	17-1/8	22	5-5/8

See page 4 for nomenclature

Units are supplied with 3-prong Electrical Connector

REACH-IN UNIT COOLERS: T-TEMP

800 TO 1,700 BTUH

Standard Features

- ▶ Air defrost
- ▶ Heavy gauge aluminum housing
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF) // Shaded Pole

115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)
TT18-8RP-AS	1,257	TT18-8RP-DS	1,341
TT28-13RP-AS	1,611	TT28-13RP-DS	1,730
TT28-17RP-AS	1,802	TT28-17RP-DS	1,935

Model #	Dimensions (inches)		
	Height	Length	Depth
TT18-8	7-1/4	13-3/4	7-1/2
TT28-13	7-1/4	19-1/4	7-1/2
TT28-17	7-1/4	19-1/4	8-1/2

See page 4 for nomenclature

REACH-IN UNIT COOLERS: TWIN-TEMP

900 TO 12,000 BTUH

Standard Features

- ▶ Air defrost
- ▶ Heavy gauge aluminum housing
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF)

Single Speed EC Motor				Shaded Pole			
115 V		230 V		115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
TW17-9RP-AE	2,357	TW17-9RP-DE	2,434	TW17-9RP-AS	1,385	TW17-9RP-DS	1,464
TW17-12RP-AE	2,634	TW17-12RP-DE	2,758	TW17-12RP-AS	1,663	TW17-12RP-DS	1,784
TW17-18RP-AE	3,033	TW17-18RP-DE	3,150	TW17-18RP-AS	2,071	TW17-18RP-DS	2,191
TW17-25RP-AE	3,533	TW17-25RP-DE	3,677	TW17-25RP-AS	2,568	TW17-25RP-DS	2,710
TW17-35RP-AE	4,226	TW17-35RP-DE	4,387	TW17-35RP-AS	3,275	TW17-35RP-DS	3,434
TW17-45RP-AE	5,094			TW17-45RP-AS	4,126	TW17-45RP-DS	4,379
TW17-55RP-AE	6,065			TW17-55RP-AS	5,105	TW17-55RP-DS	5,330
TW18-65RP-AE	6,749			TW18-65RP-AS	5,749	TW18-65RP-DS	5,749
				TW17-75RP-AS	5,946	TW17-75RP-DS	5,946
				TW18-85RP-AS	6,902	TW18-85RP-DS	6,902
				TW17-105RP-AS	7,904	TW17-105RP-DS	7,904
				TW18-120RP-AS	8,478	TW18-120RP-DS	8,818

Model #	Dimensions (inches)				Model #	Dimensions (inches)		
	Height	Length	Depth			Height	Length	Depth
TW17-9	7-5/8	19	16-1/2		TW17-55	12	32	21-1/2
TW17-12	7-5/8	19	16-1/2		TW18-65	12	32	21-1/2
TW17-18	9-1/8	19	16-1/2		TW17-75	11	36-1/2	36
TW17-25	9-5/8	21	18-1/2		TW18-85	11	36-1/2	36
TW17-35	11-1/4	11	18-1/2		TW17-105	13	36-1/2	36
TW17-45	10	32	21-1/2		TW18-120	13	36-1/2	36

See page 4 for nomenclature

REACH-IN UNIT COOLERS: MINI TWIN-TEMP

800 TO 2,700 BTUH

Standard Features

- ▶ Air defrost
- ▶ Heavy gauge aluminum housing
- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil



Air Defrost // Cooler Application // Coated Coil (RUSS-PROOF) // Shaded Pole

115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)
MTW18-8RP-AS	1,534	MTW18-8RP-DS	1,534
MTW28-13RP-AS	1,845	MTW28-13RP-DS	1,845
MTW28-18RP-AS	2,278	MTW28-18RP-DS	2,278
MTW28-21RP-AS	2,330	MTW28-21RP-DS	2,330
MTW38-27RP-AS	2,790	MTW38-27RP-DS	2,790

Model #	Dimensions (inches)		
	Height	Length	Depth
MTW18-8RP	3-1/4	14-1/4	13
MTW28-13RP	3-1/4	19-1/4	13
MTW28-18RP	3-1/4	19-1/4	13
MTW28-21RP	3-1/4	19-1/4	13
MTW38-27RP	3-1/4	28-1/2	13

See page 4 for nomenclature

Step-In Unit Cooler



MODEL

STEP-IN NOMENCLATURE

Not all combinations of nomenclature are available.
For specific offering, see next page or consult with one of our sales representatives.

ASL	A	2	5	061	A	D	A
Display Case	Defrost Type	# of Fans	Fins Per Inch	Capacity	Voltage	Motor Type	Vintage
Slim-Temp Display Case	A - Air E - Electric	2 to 6		# x 100 = BTUH	A - 115/1/60 D - 230/1/60	D - Dual Speed EC	



DOE AWEF values for specific models in a given application
can be found in the Product Brochure on our website.

STEP-IN UNIT COOLERS: ASLA/ASLE

4,600 TO 17,300 BTUH

Standard Features

- ▶ Dual speed EC motors
- ▶ Fan motors are permanently lubricated and thermally or electronically protected
- ▶ Electrical connections located at end opposite refrigerant connections for easier installation
- ▶ Air or electric defrost models
- ▶ UL/cUL certified for use with multiple refrigerants
- ▶ NSF approved for use in food preparation areas
- ▶ All aluminum low silhouette housing



Options

- ▶ Protective Russ-Proof epoxy coil coating extends the life of the coil

Air Defrost

STANDARD COIL				COATED COIL (RUSS-PROOF)			
115 V		230 V		115 V		230 V	
Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
ASLA25048ADA	5,542	ASLA25048DDA	5,542	ASLA25048ADARP	7,416	ASLA25048DDARP	7,416
ASLA25061ADA	5,705	ASLA25061DDA	5,705	ASLA25061ADARP	7,528	ASLA25061DDARP	7,528
ASLA35073ADA	6,117	ASLA35073DDA	6,117	ASLA35073ADARP	8,106	ASLA35073DDARP	8,106
ASLA45098ADA	7,348	ASLA45098DDA	7,348	ASLA45098ADARP	9,234	ASLA45098DDARP	9,234
ASLA55122ADA	8,613	ASLA55122DDA	8,613	ASLA55122ADARP	10,509	ASLA55122DDARP	10,509
ASLA65158ADA	9,790	ASLA65158DDA	9,790	ASLA65158ADARP	11,822	ASLA65158DDARP	11,822

Electric Defrost

STANDARD COIL	
230 V	
Model #	List Price (\$US)
ASLE25046DDA	5,930
ASLE25058DDA	6,205
ASLE35070DDA	6,670
ASLE45094DDA	8,001
ASLE55117DDA	9,313
ASLE65150DDA	10,561

Factory Mounted Options

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	697
Liquid Line Solenoid Valve (LLSV)	505
Mechanical Thermostat	514

Shipped-Loose Options

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	567
Liquid Line Solenoid Valve (LLSV)	478
Mechanical Thermostat	484

Walk-In Unit Coolers

MODELS

WALK-IN NOMENCLATURE

Not all combinations of nomenclature are available.
For specific offering, see following pages or consult with one of our sales representatives.

K	W	6	E	143	E	D	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	L - Low Profile U - Low Profile Reverse Connections E - Center Mount V - Low Velocity Center Mount M - Medium Profile H - Heavy Duty Y - Heavy Duty Reverse Connections W - Warehouse Z - Warehouse 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	# x 100* = BTUH <i>*multiply by 1,000 for Heavy Duty and Warehouse</i>	A - 115/1/60 D - 230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC T - 3 Phase H - 3 Phase + High-Static (Pressure Prop) Fan Blades	



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile

Small to Medium Walk-Ins
Cooler and Freezer Applications



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

Options

- ▶ Coated aluminum fins
- ▶ EcoNet® Enabled Unit Cooler controller
- ▶ EcoNet Command Center
- ▶ Coated housing
- ▶ Adjustable termination/fan delay control
- ▶ Insulated drain pan

BTUH

Air Defrost	Electric Defrost	Hot Gas Defrost
4,100 - 45,900	2,700 - 33,000	2,700 - 33,000

Nomenclature // Configurable Base Model

K	L	6	E	042	E	D	A
Brand	Connections ¹	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	L - Standard U - Reverse	6 FPI 4 FPI	A - Air E - Electric H - Hot Gas 3-Pipe G - Hot Gas Reverse	# x 100 = BTUH	A - 115/1/60 D - 230/1/60 E - 208-230/3/60	D - Dual Speed EC	

Pre-Configuration Codes²

A	L
Refrigerant	Pre-assembly Code
A - R404A	C - Mounted TXV, LLSV & Electronic Thermostat
R - EcoNet Approved Refrigerants ³	E - EcoNet Control Package ⁴
S - R407A, R448A, R449A/B	L - Mounted TXV, LLSV & Mechanical Thermostat ⁵

- 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 or contact your local Kramer 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. EcoNet Control Package is not available in 50 Hz.
 - 5 Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic Thermostat) are rated for +25°F SST/10°F TD (Air Defrost) and -20°F SST/10°F TD (Electric Defrost).
- CO2 and Glycol Next-Gen All-Temp Unit Coolers available. If required, please contact factory.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Air Defrost Configurable Base Models

DUAL SPEED EC MOTORS - 6 FPI

# of Fans	115 V		230 V	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6A041ADA	2,871	KL6A041DDA	2,871
	KL6A052ADA	2,948	KL6A052DDA	2,948
	KL6A066ADA	3,422	KL6A066DDA	3,422
2	KL6A073ADA	4,472	KL6A073DDA	4,472
	KL6A094ADA	5,065	KL6A094DDA	5,065
	KL6A117ADA	5,321	KL6A117DDA	5,321
	KL6A130ADA	5,682	KL6A130DDA	5,682
3	KL6A141ADA	6,874	KL6A141DDA	6,874
	KL6A161ADA	7,634	KL6A161DDA	7,634
	KL6A181ADA	8,319	KL6A181DDA	8,319
4	KL6A195ADA	8,963	KL6A195DDA	8,963
	KL6A235ADA	10,870	KL6A235DDA	10,870
	KL6A260ADA	11,845	KL6A260DDA	11,845
5	KL6A295ADA	13,583	KL6A295DDA	13,583
6	KL6A330ADA	14,579	KL6A330DDA	14,579
	KL6A390ADA	16,369	KL6A390DDA	16,369

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 • Reverse Connections (U) are available at no charge and cannot be ordered with any factory mounted options.

Air Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV ⁴	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	697	2,242	2,884	6,292	505	514	771	906
2	697	2,242	2,884	6,292	505	514	771	1,145
3	697	2,242	2,884	6,292	505	514	771	1,389
4	697	2,242	2,884	6,292	505	514	771	1,597
5	697	2,242	2,884	6,369	586	514	771	1,824
6	1,312	2,242	2,884	6,369	586	514	771	2,074

See notes on next page

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Air Defrost Pre-Configured⁵ Models // Code C // 115 V

Models include mounted TXV, LLSV, and Electronic Thermostat⁶

DUAL SPEED EC MOTORS - 6 FPI

# of Fans	115 V		
	Model # R404A	Model # R407A, R448A, R449A/B	List Price (\$US)
1	KL6A041ADAAC	KL6A041ADASC	4,844
	KL6A052ADAAC	KL6A052ADASC	4,921
	KL6A066ADAAC	KL6A066ADASC	5,395
2	KL6A073ADAAC	KL6A073ADASC	6,445
	KL6A094ADAAC	KL6A094ADASC	7,038
	KL6A117ADAAC	KL6A117ADASC	7,294
	KL6A130ADAAC	KL6A130ADASC	7,655
3	KL6A141ADAAC	KL6A141ADASC	8,847
	KL6A161ADAAC	KL6A161ADASC	9,607
	KL6A181ADAAC	KL6A181ADASC	10,292
4	KL6A195ADAAC	KL6A195ADASC	10,936
	KL6A235ADAAC	KL6A235ADASC	12,843
	KL6A260ADAAC	KL6A260ADASC	13,818
5	KL6A295ADAAC	KL6A295ADASC	15,637
6	KL6A330ADAAC	KL6A330ADASC	17,248
	KL6A390ADAAC	KL6A390ADASC	19,038

AIR DEFROST CONFIGURABLE OPTIONS

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.
- 3 KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).
- 4 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 30 • 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.

AIR DEFROST PRE-CONFIGURED MODELS

- 5 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 Kramer sales representative.
- 6 Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic 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 // Low Profile



Air Defrost Pre-Configured¹ Models // Code C // 230 V

Models include mounted TXV, LLSV, and Electronic Thermostat²

DUAL SPEED EC MOTORS - 6 FPI

# of Fans	230 V		
	Model # R404A	Model # R407A, R448A, R449A/B	List Price (\$US)
1	KL6A041DDAAC	KL6A041DDASC	4,844
	KL6A052DDAAC	KL6A052DDASC	4,921
	KL6A066DDAAC	KL6A066DDASC	5,395
2	KL6A073DDAAC	KL6A073DDASC	6,445
	KL6A094DDAAC	KL6A094DDASC	7,038
	KL6A117DDAAC	KL6A117DDASC	7,294
	KL6A130DDAAC	KL6A130DDASC	7,655
3	KL6A141DDAAC	KL6A141DDASC	8,847
	KL6A161DDAAC	KL6A161DDASC	9,607
	KL6A181DDAAC	KL6A181DDASC	10,292
4	KL6A195DDAAC	KL6A195DDASC	10,936
	KL6A235DDAAC	KL6A235DDASC	12,843
	KL6A260DDAAC	KL6A260DDASC	13,818
5	KL6A295DDAAC	KL6A295DDASC	15,637
6	KL6A330DDAAC	KL6A330DDASC	17,248
	KL6A390DDAAC	KL6A390DDASC	19,038

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 or contact your local Kramer sales representative.

² Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic 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 // Low Profile



Air Defrost Pre-Configured¹ Models // Code RE // EcoNet Enabled

Models include EcoNet Control Package³

DUAL SPEED EC MOTORS - 6 FPI - 115 V

# of Fans	EcoNet Control Package ^{2,3,4}	
	Model #	List Price (\$US)
1	KL6A041ADARE	5,755
	KL6A052ADARE	5,832
	KL6A066ADARE	6,306
2	KL6A073ADARE	7,356
	KL6A094ADARE	7,949
	KL6A117ADARE	8,205
	KL6A130ADARE	8,566
3	KL6A141ADARE	9,758
	KL6A161ADARE	10,518
	KL6A181ADARE	11,203
4	KL6A195ADARE	11,847
	KL6A235ADARE	13,754
	KL6A260ADARE	14,729
5	KL6A295ADARE	16,467
6	KL6A330ADARE	17,463
	KL6A390ADARE	19,253

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 or contact your local Kramer 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.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Air Defrost Pre-Configured¹ Models // Code L

Models include mounted TXV, LLSV, and Mechanical Thermostat²

DUAL SPEED EC MOTORS - 6 FPI - 115 V

# of Fans	Mounted Components (404)		Mounted Components (High-Glide)	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6A041ADAAL	4,587	KL6A041ADASL	4,587
	KL6A052ADAAL	4,664	KL6A052ADASL	4,664
	KL6A066ADAAL	5,138	KL6A066ADASL	5,138
2	KL6A073ADAAL	6,188	KL6A073ADASL	6,188
	KL6A094ADAAL	6,781	KL6A094ADASL	6,781
	KL6A117ADAAL	7,037	KL6A117ADASL	7,037
	KL6A130ADAAL	7,398	KL6A130ADASL	7,398
3	KL6A141ADAAL	8,590	KL6A141ADASL	8,590
	KL6A161ADAAL	9,350	KL6A161ADASL	9,350
	KL6A181ADAAL	10,035	KL6A181ADASL	10,035
4	KL6A195ADAAL	10,679	KL6A195ADASL	10,679
	KL6A235ADAAL	12,586	KL6A235ADASL	12,586
	KL6A260ADAAL	13,561	KL6A260ADASL	13,561
5	KL6A295ADAAL	15,380	KL6A295ADASL	15,380
6	KL6A330ADAAL	16,991	KL6A330ADASL	16,991
	KL6A390ADAAL	18,781	KL6A390ADASL	18,781

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 or contact your local Kramer sales representative.

² Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical Thermostat) are rated for +25°F SST/10°F TD (Air Defrost) and -20°F SST/10°F TD (Electric Defrost).

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Electric Defrost Configurable Base Models

"-" Not Available

DUAL SPEED EC MOTORS - 230 V

# of Fans	6 FPI		4 FPI	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6E035DDA	3,917	KL4E027DDA	3,760
	KL6E042DDA	4,357	KL4E032DDA	4,182
	KL6E049DDA	4,794	KL4E038DDA	4,604
2	KL6E066DDA	6,041	KL4E051DDA	5,798
	KL6E077DDA	6,355	KL4E064DDA	6,103
	KL6E090DDA	6,542	KL4E080DDA	6,281
	KL6E105DDA	7,666	-	-
3	KL6E121DDA	8,571	KL4E094DDA	8,226
	KL6E142DDA	9,779	KL4E110DDA	9,389
4	KL6E162DDA	11,470	KL4E125DDA	11,009
	KL6E182DDA	12,657	KL4E141DDA	12,148
5	KL6E200DDA	14,233	KL4E155DDA	13,666
6	KL6E244DDA	16,697	KL4E195DDA	16,030
	KL6E281DDA	18,487	KL4E230DDA	17,747

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. • Reverse Connections (U) are available at No Charge. Reverse Connection models cannot be ordered with any factory mounted options. • 5 & 6 fan electric defrost models are also available wired for 208-230/3/60. EcoNet is not available on 208-230/3/60 Models.

Electric Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	KE2 Evap. Defrost Control Package ³	LLSV ⁴	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	697	2,242	2,884	6,292	505	514	771	531	906
2	697	2,242	2,884	6,292	505	514	771	531	1,145
3	697	2,242	2,884	6,292	505	514	771	531	1,389
4	697	2,242	2,884	6,292	505	514	771	531	1,597
5	697	2,242	2,884	6,369	586	514	771	531	1,824
6	1,312	2,242	2,884	6,369	586	514	771	531	2,074

See notes on next page.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Electric Defrost Pre-Configured⁵ Models // Code C

Models include mounted TXV, LLSV, and Electronic Thermostat⁶

DUAL SPEED EC MOTORS - 6 FPI

# of Fans	230 V		
	Model # R404A	Model # R407A, R448A, R449A/B	List Price (\$US)
1	KL6E035DDAAC	KL6E035DDASC	5,890
	KL6E042DDAAC	KL6E042DDASC	6,330
	KL6E049DDAAC	KL6E049DDASC	6,767
2	KL6E066DDAAC	KL6E066DDASC	8,014
	KL6E077DDAAC	KL6E077DDASC	8,328
	KL6E090DDAAC	KL6E090DDASC	8,515
	KL6E105DDAAC	KL6E105DDASC	9,639
3	KL6E121DDAAC	KL6E121DDASC	10,544
	KL6E142DDAAC	KL6E142DDASC	11,752
4	KL6E162DDAAC	KL6E162DDASC	13,443
	KL6E182DDAAC	KL6E182DDASC	14,630
5	KL6E200DDAAC	KL6E200DDASC	16,287
6	KL6E244DDAAC	KL6E244DDASC	19,366
	KL6E281DDAAC	KL6E281DDASC	21,156

ELECTRIC DEFROST CONFIGURABLE OPTIONS

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.
- 3 KE2 Evaporator Defrost Control Package includes a Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV)
- 4 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 30 • 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.

ELECTRIC DEFROST PRE-CONFIGURED OPTIONS

- 5 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 Kramer sales representative.
- 6 Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic 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 // Low Profile



Electric Defrost Pre-Configured¹ Models // Code RE // EcoNet Enabled

Models include EcoNet Control Package³

DUAL SPEED EC MOTORS - 6 FPI - 230 V

# of Fans	EcoNet Control Package ^{2,3,4}	
	Model #	List Price (\$US)
1	KL6E035DDARE	6,801
	KL6E042DDARE	7,241
	KL6E049DDARE	7,678
2	KL6E066DDARE	8,925
	KL6E077DDARE	9,239
	KL6E090DDARE	9,426
	KL6E105DDARE	10,550
3	KL6E121DDARE	11,455
	KL6E142DDARE	12,663
4	KL6E162DDARE	14,354
	KL6E182DDARE	15,541
5	KL6E200DDARE	17,117
6	KL6E244DDARE	19,581
	KL6E281DDARE	21,371

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 or contact your local Kramer 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.

Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic Thermostat) are rated for +25°F SST/10°F TD (Air Defrost) and -20°F SST/10°F TD (Electric Defrost).

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Electric Defrost Pre-Configured¹ Models // Code L

Models include mounted TXV, LLSV, and Mechanical Thermostat²

DUAL SPEED EC MOTORS - 6 FPI - 230 V

# of Fans	R404A		R407A, R448A, R449A/B	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6E035DDAAL	5,633	KL6E035DDASL	5,633
	KL6E042DDAAL	6,073	KL6E042DDASL	6,073
	KL6E049DDAAL	6,510	KL6E049DDASL	6,510
2	KL6E066DDAAL	7,757	KL6E066DDASL	7,757
	KL6E077DDAAL	8,071	KL6E077DDASL	8,071
	KL6E090DDAAL	8,258	KL6E090DDASL	8,258
	KL6E105DDAAL	9,382	KL6E105DDASL	9,382
3	KL6E121DDAAL	10,287	KL6E121DDASL	10,287
	KL6E142DDAAL	11,495	KL6E142DDASL	11,495
4	KL6E162DDAAL	13,186	KL6E162DDASL	13,186
	KL6E182DDAAL	14,373	KL6E182DDASL	14,373
5	KL6E200DDAAL	16,030	KL6E200DDASL	16,030
6	KL6E244DDAAL	19,109	KL6E244DDASL	19,109
	KL6E281DDAAL	20,899	KL6E281DDASL	20,899

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 or contact your local Kramer sales representative.

² Models with Pre-configured Mechanical Components (TXV, LLSV and Mechanical or Electronic 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 // Low Profile



Hot Gas Defrost // Reverse Cycle Configurable Base Models

"-" Not Available

DUAL SPEED EC MOTORS - 115 V

# of Fans	6 FPI		4 FPI	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6G035ADA	3,814	KL4G027ADA	3,661
	KL6G042ADA	4,306	KL4G032ADA	4,133
	KL6G049ADA	4,858	KL4G038ADA	4,666
2	KL6G066ADA	5,834	KL4G051ADA	5,601
	KL6G077ADA	6,458	KL4G064ADA	6,200
	KL6G090ADA	6,845	KL4G080ADA	6,573
	KL6G105ADA	8,024	-	-
3	KL6G121ADA	8,425	KL4G094ADA	8,086
	KL6G142ADA	9,862	KL4G110ADA	9,466
4	KL6G162ADA	10,953	KL4G125ADA	10,512
	KL6G182ADA	12,268	KL4G141ADA	11,776
5	KL6G200ADA	12,969	KL4G155ADA	12,451
6	KL6G244ADA	15,705	KL4G195ADA	15,076
	KL6G281ADA	17,489	KL4G230ADA	16,789

DUAL SPEED EC MOTORS - 230 V

# of Fans	6 FPI		4 FPI	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6G035DDA	3,900	KL4G027DDA	3,746
	KL6G042DDA	4,406	KL4G032DDA	4,230
	KL6G049DDA	4,972	KL4G038DDA	4,776
2	KL6G066DDA	6,209	KL4G051DDA	5,960
	KL6G077DDA	5,387	KL4G064DDA	6,555
	KL6G090DDA	7,306	KL4G080DDA	7,013
	KL6G105DDA	8,486	-	-
3	KL6G121DDA	8,965	KL4G094DDA	8,605
	KL6G142DDA	10,215	KL4G110DDA	9,807
4	KL6G162DDA	11,643	KL4G125DDA	11,178
	KL6G182DDA	13,174	KL4G141DDA	12,645
5	KL6G200DDA	13,787	KL4G155DDA	13,236
6	KL6G244DDA	16,853	KL4G195DDA	16,180
	KL6G281DDA	18,868	KL4G230DDA	18,114

See notes on next page

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Hot Gas Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV ¹	EEV ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	697	2,242	505	514	771	531	906
2	697	2,242	505	514	771	531	1,145
3	697	2,242	505	514	771	531	1,389
4	697	2,242	505	514	771	531	1,597
5	697	2,242	586	514	771	531	1,824
6	1,312	2,242	586	514	771	531	2,074

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

HOT GAS DEFROST CONFIGURABLE BASE MODELS

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

- 1 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.
- 2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 3 LLS voltage must match the voltage applied to the motor.

Consult Factory for Factory Mounted Suction Check Valves • Shipped-Loose Accessories are found on page 30 • 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.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Hot Gas Defrost // 3-Pipe Configurable Base Models

"-" Not Available

DUAL SPEED EC MOTORS - 115 V				
# of Fans	6 FPI		4 FPI	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6H035ADA	3,814	KL4H027ADA	3,661
	KL6H042ADA	4,306	KL4H032ADA	4,133
	KL6H049ADA	4,858	KL4H038ADA	4,666
2	KL6H066ADA	5,834	KL4H051ADA	5,601
	KL6H077ADA	6,458	KL4H064ADA	6,200
	KL6H090ADA	6,845	KL4H080ADA	6,573
	KL6H105ADA	-	-	-
3	KL6H121ADA	8,425	KL4H094ADA	8,086
	KL6H142ADA	9,862	KL4H110ADA	9,466
4	KL6H162ADA	10,953	KL4H125ADA	10,512
	KL6H182ADA	12,268	KL4H141ADA	11,776
5	KL6H200ADA	12,969	KL4H155ADA	12,451
6	KL6H244ADA	15,705	KL4H195ADA	15,076
	KL6H281ADA	17,489	KL4H230ADA	16,789

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Hot Gas Defrost // 3-Pipe Configurable Base Models

"-" Not Available

DUAL SPEED EC MOTORS - 230 V

# of Fans	6 FPI		4 FPI	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KL6H035DDA	3,900	KL4H027DDA	3,746
	KL6H042DDA	4,406	KL4H032DDA	4,230
	KL6H049DDA	4,972	KL4H038DDA	4,776
2	KL6H066DDA	6,209	KL4H051DDA	5,960
	KL6H077DDA	6,831	KL4H064DDA	6,555
	KL6H090DDA	7,306	KL4H080DDA	7,013
	KL6H105DDA	8,486	-	-
3	KL6H121DDA	8,965	KL4H094DDA	8,605
	KL6H142DDA	10,215	KL4H110DDA	9,807
4	KL6H162DDA	11,643	KL4H125DDA	11,178
	KL6H182DDA	13,174	KL4H141DDA	12,645
5	KL6H200DDA	13,787	KL4H155DDA	13,236
6	KL6H244DDA	16,853	KL4H195DDA	16,180
	KL6H281DDA	18,868	KL4H230DDA	18,114

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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.

WALK-IN UNIT COOLERS

Next-Gen All-Temp // Low Profile



Hot Gas Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
# of Fans	TXV ¹	EEV ²	LLSV ³	Liquid TXV Bypass Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	718	2,243	520	969	530	790	551	936
2	718	2,243	520	969	530	790	551	1,175
3	718	2,243	520	969	530	790	551	1,435
4	718	2,243	520	969	530	790	551	1,643
5	718	2,243	603	969	530	790	551	1,882
6	1,352	2,243	603	969	530	790	551	2,132

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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.

1 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.

2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

3 LLS voltage must match the voltage applied to the motor.

Consult Factory for Factory Mounted Suction Check Valves • Shipped-Loose Accessories are found on page 30 • 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.

WALK-IN UNIT COOLERS // NEXT-GEN ALL-TEMP

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	268
HX-50	105065003	13	3/8	5/8	314
HX-75	105065004	14	3/8	7/8	431
HX-100	105065005	14	3/8	1-1/8	549
HX-150	105065006	14	1/2	1-1/8	635

WALK-IN UNIT COOLERS

Center Mount // Low Height

Small to Medium Walk-Ins
Cooler and Freezer Applications



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 independently 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

Options

- ▶ Coated aluminum fins
- ▶ EcoNet® Enabled Unit Cooler controller
- ▶ EcoNet Command Center
- ▶ Coated housing
- ▶ Adjustable termination/fan delay control
- ▶ Insulated drain pan

BTUH	
Air Defrost 4,100 - 30,400	Electric Defrost 3,700 - 32,400

Nomenclature

K	E	6	A	041	A	D	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	E - Center Mount	6 FPI 4 FPI	A - Air E - Electric	# x 100 = BTUH	A - 115/1/60 D - 230/1/60	D - Dual Speed EC	



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

WALK-IN UNIT COOLERS

Center Mount // Low Height



Air Defrost Configurable Base Models

DUAL SPEED EC MOTORS - 6 FPI				
# of Fans	115 V		230 V	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KE6A041ADA	3,798	KE6A041DDA	3,990
2	KE6A070ADA	5,513	KE6A070DDA	5,757
	KE6A084ADA	6,046	KE6A084DDA	6,295
3	KE6A104ADA	6,600	KE6A104DDA	6,900
	KE6A128ADA	8,248	KE6A128DDA	8,563
4	KE6A141ADA	9,094	KE6A141DDA	9,458
	KE6A169ADA	10,471	KE6A169DDA	10,849
5	KE6A204ADA	11,424	KE6A204DDA	11,859
	KE6A258ADA	13,822	KE6A258DDA	15,697

Air Defrost Configurable Options

# of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	EcoNet Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	697	2,242	2,884	505	514	771	235
2	697	2,242	2,884	505	514	771	296
3	697	2,242	2,884	505	514	771	359
4	697	2,242	2,884	505	514	771	420
5	697	2,242	2,884	505	514	771	484

AIR DEFROST CONFIGURABLE BASE MODELS

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

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.
- 3 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 34 • 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.

WALK-IN UNIT COOLERS

Center Mount // Low Height



Electric Defrost Configurable Base Models

DUAL SPEED EC MOTORS - 4 FPI			DUAL SPEED EC MOTORS - 6 FPI		
# of Fans	230 V		# of Fans	230 V	
	Model #	List Price (\$US)		Model #	List Price (\$US)
1	KE4E037DDA	5,984	1	KE6E037DDA	5,984
2	KE4E075DDA	8,320		KE6E045DDA	8,055
3	KE4E107DDA	11,257	2	KE6E075DDA	8,320
4	KE4E149DDA	14,169		KE6E089DDA	10,467
5	KE4E186DDA	16,030	3	KE6E108DDA	11,362
	KE4E234DDA	18,435		KE6E125DDA	11,498
			4	KE6E137DDA	13,816
				KE6E182DDA	14,620
			5	KE6E221DDA	17,414
				KE6E278DDA	19,548

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

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	697	2,242	2,884	505	514	771	235
2	697	2,242	2,884	505	514	771	296
3	697	2,242	2,884	505	514	771	359
4	697	2,242	2,884	505	514	771	420
5	697	2,242	2,884	505	514	771	484

ELECTRIC DEFROST CONFIGURABLE OPTIONS

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.
- 3 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 34 • 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.

WALK-IN UNIT COOLER // CENTER MOUNT

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	258
HX-50	105065003	13	3/8	5/8	302
HX-75	105065004	14	3/8	7/8	414
HX-100	105065005	14	3/8	1-1/8	528
HX-150	105065006	14	1/2	1-1/8	611

WALK-IN UNIT COOLERS

Center Mount // Low Velocity

Small to Medium Walk-Ins
Cooler Applications



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 independently 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

Options

- ▶ EcoNet® Enabled Unit Cooler Controller
- ▶ EcoNet® Command Center
- ▶ Thermostatic expansion valve (mounted or loose)
- ▶ Liquid line solenoid valve (mounted or loose)
- ▶ Thermostat (mechanical or electronic - mounted or loose)

BTUH	
Air Defrost 4,300 - 32,500	Electric Defrost 4,300 - 32,500

Nomenclature

K	V	6	A	043	A	D	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	V - Low Velocity Center Mount	6 FPI	A - Air E - Electric	# x 100 = BTUH	A - 115/1/60 D - 230/1/60	D - Dual Speed EC	



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

WALK-IN UNIT COOLERS

Center Mount // Low Velocity



Configurable Base Models

DUAL SPEED EC MOTORS - 6 FPI						
# of Fans	Air Defrost				Electric Defrost	
	115 V		230 V		230 V	
	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KV6A043ADA	5,995	KV6A043DDA	6,233	KV6E043DDA	6,901
	KV6A053ADA	6,209	KV6A053DDA	6,457	KV6E053DDA	7,244
2	KV6A085ADA	7,231	KV6A085DDA	7,521	KV6E085DDA	8,474
	KV6A106ADA	8,868	KV6A106DDA	9,223	KV6E106DDA	10,249
3	KV6A129ADA	10,293	KV6A129DDA	10,706	KV6E129DDA	12,031
	KV6A158ADA	11,548	KV6A158DDA	12,013	KV6E158DDA	13,439
4	KV6A176ADA	14,075	KV6A176DDA	14,638	KV6E176DDA	16,461
	KV6A218ADA	15,916	KV6A218DDA	16,553	KV6E218DDA	18,509
5	KV6A271ADA	17,454	KV6A271DDA	18,153	KV6E271DDA	20,617

Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	697	2,242	2,884	505	514	771	235
2	697	2,242	2,884	505	514	771	296
3	697	2,242	2,884	505	514	771	359
4	697	2,242	2,884	505	514	771	420
5	697	2,242	2,884	505	514	771	484

CONFIGURABLE BASE MODELS

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

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.
- 3 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 37 • 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.

WALK-IN UNIT COOLER // CENTER MOUNT LOW VELOCITY

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	258
HX-50	105065003	13	3/8	5/8	302
HX-75	105065004	14	3/8	7/8	414
HX-100	105065005	14	3/8	1-1/8	528
HX-150	105065006	14	1/2	1-1/8	611

WALK-IN UNIT COOLERS



Medium Profile

Medium to Large Walk-Ins
Cooler & Freezer Applications in boxes <3,000 sq. ft.



Standard Features

- ▶ Rail-mounted, energy-efficient Dual Speed EC motors that are compliant with California Title 24 regulations
- ▶ 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
- ▶ Evaporators AWEF certified for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft.
- ▶ UL/cUL certified for use with multiple refrigerants
- ▶ NSF approved for use in food preparation areas
- ▶ Available as single through three fan models

Options

- ▶ EcoNet® Enabled Unit Cooler controller
- ▶ EcoNet Command Center
- ▶ Painted housing
- ▶ Coated Coil
- ▶ Suction/Liquid Heat Exchanger
- ▶ Insulated drain pan

B T U H	Air Defrost
	4,100 - 45,900
	Electric Defrost
	2,700 - 33,000
	Hot Gas Defrost
	2,700 - 33,000

Nomenclature

K	M	6	E	153	A	D	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	M - Medium Profile	6 FPI 4 FPI	A - Air E - Electric H - Hot Gas 3-Pipe G - Hot Gas Reverse Cycle	# x 100 = BTUH	A - 115/1/60 D - 230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC	



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

WALK-IN UNIT COOLERS

Medium Profile



Air Defrost Configurable Base Models

DUAL SPEED EC MOTORS - 6 FPI						
# of Fans	115/1/60		208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KM6A182ADA	9,881	KM6A182DDA	10,078	KM6A182FDA	10,672
	KM6A220ADA	11,922	KM6A220DDA	12,160	KM6A220FDA	12,877
2	KM6A276ADA	16,761	KM6A276DDA	17,097	KM6A276FDA	18,102
	KM6A370ADA	21,186	KM6A370DDA	21,610	KM6A370FDA	22,882
	KM6A442ADA	24,576	KM6A442DDA	25,069	KM6A442FDA	26,543
3	KM6A549ADA	29,825	KM6A549DDA	30,423	KM6A549FDA	32,211
	KM6A658ADA	31,418	KM6A658DDA	32,048	KM6A658FDA	33,931

Air Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	697	2,242	3,964	1,004	514	771	724
2	1,312	2,242	3,964	1,004	514	771	1,193
3	1,312	2,242	3,964	1,249	514	771	1,595

AIR DEFROST CONFIGURABLE BASE MODELS

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

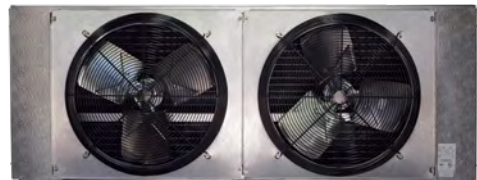
1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz.

Shipped-Loose Accessories are found on page 44 • 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.

WALK-IN UNIT COOLERS

Medium Profile



Electric Defrost Configurable Base Models

DUAL SPEED EC MOTORS				
# of Fans	208-230/1/60		208-230/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KM6E153DDA	KM6E153EDA	12,752
		KM6E184DDA	KM6E184EDA	16,660
	2	KM6E311DDA	KM6E311EDA	20,925
		KM6E374DDA	KM6E374EDA	26,993
	3	-	KM6E469EDA	30,577
		-	KM6E564EDA	33,509
4 FPI	1	KM4E110DDA	KM4E110EDA	12,244
		KM4E143DDA	KM4E143EDA	15,995
	2	KM4E232DDA	KM4E232EDA	20,089
		KM4E288DDA	KM4E288EDA	25,913
	3	-	KM4E336EDA	29,356
		-	KM4E419EDA	32,172

DUAL SPEED EC MOTORS				
# of Fans	460/1/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KM6E153FDA	KM6E153GDA	13,775
		KM6E184FDA	KM6E184GDA	17,992
	2	KM6E311FDA	KM6E311GDA	22,600
		KM6E374FDA	KM6E374GDA	29,150
	3	KM6E469FDA	KM6E469GDA	33,022
		KM6E564FDA	KM6E564GDA	36,191
4 FPI	1	KM4E110FDA	KM4E110GDA	13,223
		KM4E143FDA	KM4E143GDA	17,273
	2	KM4E232FDA	KM4E232GDA	21,695
		KM4E288FDA	KM4E288GDA	27,986
	3	KM4E336FDA	KM4E336GDA	31,705
		KM4E419FDA	KM4E419GDA	34,745

See notes on next page.

WALK-IN UNIT COOLERS

Medium Profile



Electric Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	697	2,242	3,964	1,004	514	771	531	724
2	1,312	2,242	3,964	1,004	514	771	531	1,193
3	1,312	2,242	3,964	1,249	514	771	531	1,595

ELECTRIC DEFROST CONFIGURABLE BASE MODELS

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

- 1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 2 EcoNet Control Package is not available in 50 Hz.

Shipped-Loose Accessories are found on page 44 • 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.

WALK-IN UNIT COOLERS

Medium Profile



Hot Gas Defrost // Reverse Cycle Configurable Base Models

DUAL SPEED EC MOTORS				
# of Fans	208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KM6G153DDA	KM6G153FDA	19,180
		KM6G184DDA	KM6G184FDA	20,018
	2	KM6G311DDA	KM6G311FDA	28,227
		KM6G374DDA	KM6G374FDA	30,056
	3	KM6G469DDA	KM6G469FDA	37,225
		KM6G564DDA	KM6G564FDA	40,345
4 FPI	1	KM4G110DDA	KM4G110FDA	18,414
		KM4G143DDA	KM4G143FDA	19,216
	2	KM4G232DDA	KM4G232FDA	27,099
		KM4G288DDA	KM4G288FDA	28,854
	3	KM4G336DDA	KM4G336FDA	35,734
		KM4G419DDA	KM4G419FDA	38,731

Hot Gas Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV ¹	EEV ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	697	2,242	1,004	514	771	531	724
2	1,312	2,242	1,004	514	771	531	1,193
3	1,312	2,242	1,249	514	771	531	1,595

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

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 DEFROST CONFIGURABLE OPTIONS

- 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.
- Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Shipped-Loose Accessories are found on page 44 • 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.

WALK-IN UNIT COOLERS

Medium Profile



Hot Gas Defrost // 3-Pipe Configurable Base Models

DUAL SPEED EC MOTORS				
# of Fans	208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KM6H153DDA	KM6H153FDA	19,180
		KM6H184DDA	KM6H184FDA	20,018
	2	KM6H311DDA	KM6H311FDA	28,227
		KM6H374DDA	KM6H374FDA	30,056
	3	KM6H469DDA	KM6H469FDA	37,225
		KM6H564DDA	KM6H564FDA	40,345
4 FPI	1	KM4H110DDA	KM4H110FDA	18,414
		KM4H143DDA	KM4H143FDA	19,216
	2	KM4H232DDA	KM4H232FDA	27,099
		KM4H288DDA	KM4H288FDA	28,854
	3	KM4H336DDA	KM4H336FDA	35,734
		KM4H419DDA	KM4H419FDA	38,731

Hot Gas Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV1	EEV2	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	697	2,242	1,004	514	771	531	724
2	1,312	2,242	1,004	514	771	531	1,193
3	1,312	2,242	1,249	514	771	531	1,595

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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 DEFROST CONFIGURABLE OPTIONS

- 1 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.
- 2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

Shipped-Loose Accessories are found on page 44 • 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.

WALK-IN UNIT COOLERS // MEDIUM PROFILE

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	258
HX-50	105065003	13	3/8	5/8	302
HX-75	105065004	14	3/8	7/8	414
HX-100	105065005	14	3/8	1-1/8	528
HX-150	105065006	14	1/2	1-1/8	611
HX-250	105065007	14	5/8	1-3/8	840
HX-350	105065008	16	5/8	1-5/8	864

WALK-IN UNIT COOLERS

Heavy Duty

Medium to Large Walk-Ins
Cooler & Freezer Applications in boxes <3,000 sq. ft.



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
- ▶ Available as single through four fan models

Options

- ▶ EcoNet® Enabled Unit Cooler controller
- ▶ EcoNet Command Center
- ▶ Reverse connections
- ▶ Painted housing
- ▶ Coated Coil
- ▶ Suction/Liquid Heat Exchanger
- ▶ Insulated drain pan

BTUH

Air Defrost
31,200 - 253,100

Electric Defrost
33,100 - 227,400

Hot Gas Defrost
33,100 - 227,400

Nomenclature

K	H	6	E	109	D	D	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	H - Heavy Duty Y - Reverse Connections	6 FPI 4 FPI	A - Air E - Electric H - Hot Gas 3-Pipe + Electric Drain Pan K - Hot Gas 3-Pipe + Hot Gas Drain Pan G - Hot Gas Reverse + Electric Drain Pan L - Hot Gas Reverse + Hot Gas Drain Pan	# x 1,000 = BTUH	D - 230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC	



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

WALK-IN UNIT COOLERS

Heavy Duty



Air Defrost Configurable Base Models

DUAL SPEED EC MOTORS - 6 FPI

# of Fans	208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KH6A031DDA	24,550	KH6A031FDA	25,040
	KH6A043DDA	26,966	KH6A043FDA	27,507
	KH6A052DDA	28,264	KH6A052FDA	28,828
2	KH6A063DDA	31,496	KH6A063FDA	32,127
	KH6A087DDA	41,207	KH6A087FDA	42,031
	KH6A105DDA	46,245	KH6A105FDA	47,171
3	KH6A132DDA	49,364	KH6A132FDA	50,352
	KH6A156DDA	66,140	KH6A156FDA	67,464
4	KH6A175DDA	76,794	KH6A175FDA	78,331
	KH6A209DDA	85,433	KH6A209FDA	87,144

Air Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,312	2,242	7,744	1,004	514	771	1,067
2	2,000	2,242	7,744	1,249	514	771	1,419
3	2,000	3,097	7,744	1,249	514	771	1,827
4	2,000	3,097	7,744	1,436	514	771	2,099

AIR DEFROST CONFIGURABLE BASE MODELS

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

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz. • Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

Shipped-Loose Accessories are found on page 54 • 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.

WALK-IN UNIT COOLERS

Heavy Duty



Electric Defrost Configurable Base Models

DUAL SPEED EC MOTORS

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KH6E033EDA	27,889	KH6E033GDA	28,449
		KH6E044EDA	33,299	KH6E044GDA	33,964
		KH6E053EDA	36,004	KH6E053GDA	36,723
	2	KH6E066EDA	43,335	KH6E066GDA	44,202
		KH6E089EDA	55,632	KH6E089GDA	56,742
		KH6E109EDA	66,322	KH6E109GDA	67,649
	3	KH6E134EDA	73,536	KH6E134GDA	75,009
		KH6E163EDA	96,366	KH6E163GDA	98,295
	4	KH6E199EDA	110,650	KH6E199GDA	112,864
4 FPI	1	KH4E035EDA	31,966	KH4E035GDA	32,605
		KH4E044EDA	34,561	KH4E044GDA	35,254
	2	KH4E071EDA	53,407	KH4E071GDA	54,473
		KH4E087EDA	63,669	KH4E087GDA	64,942
	3	KH4E107EDA	70,597	KH4E107GDA	72,005
		KH4E131EDA	92,511	KH4E131GDA	94,360
	4	KH4E167EDA	106,225	KH4E167GDA	108,346

Electric Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,312	2,242	7,744	1,004	514	771	1,067	696
2	2,000	2,242	7,744	1,249	514	771	1,419	1,147
3	2,000	3,097	7,744	1,249	514	771	1,827	1,534
4	2,000	3,097	7,744	1,436	514	771	2,099	2,018

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. • Shipped-Loose Accessories are found on page 55 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz. Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // Reverse Cycle Configurable Base Models

DUAL SPEED EC MOTORS // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KH6G033DDA 27,609	KH6G033FDA 28,164	
		KH6G044DDA 32,965	KH6G044FDA 33,626	
		KH6G053DDA 35,643	KH6G053FDA 36,356	
	2	KH6G066DDA 42,900	KH6G066FDA 43,759	
		KH6G089DDA 55,073	KH6G089FDA 56,175	
		KH6G109DDA 65,659	KH6G109FDA 66,971	
	3	KH6G134DDA 72,803	KH6G134FDA 74,259	
		KH6G163DDA 95,402	KH6G163FDA 97,310	
4 FPI	4	KH6G199DDA 109,543	KH6G199FDA 111,732	
	1	KH4G035DDA 31,646	KH4G035FDA 32,281	
		KH4G044DDA 34,216	KH4G044FDA 34,900	
	2	KH4G071DDA 52,872	KH4G071FDA 53,929	
		KH4G087DDA 63,030	KH4G087FDA 64,292	
	3	KH4G107DDA 69,888	KH4G107FDA 71,286	
		KH4G131DDA 91,584	KH4G131FDA 93,417	
	4	KH4G167DDA 105,160	KH4G167FDA 107,265	

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

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.

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // Reverse Cycle Configurable Base Models

DUAL SPEED EC MOTORS // HOT GAS DRAIN PAN HEATER				
# of Fans	208-230/1/60		460/1/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KH6L033DDA	KH6L033FDA	28,025
		KH6L044DDA	KH6L044FDA	28,586
		KH6L053DDA	KH6L053FDA	34,131
	2	KH6L066DDA	KH6L066FDA	36,904
		KH6L089DDA	KH6L089FDA	44,415
		KH6L109DDA	KH6L109FDA	57,018
	3	KH6L134DDA	KH6L134FDA	67,975
		KH6L163DDA	KH6L163FDA	75,373
4 FPI	4	KH6L199DDA	KH6L199FDA	98,769
				113,408
	1	KH4L035DDA	KH4L035FDA	32,122
		KH4L044DDA	KH4L044FDA	32,764
	2	KH4L071DDA	KH4L071FDA	35,426
		KH4L087DDA	KH4L087FDA	54,736
	3	KH4L107DDA	KH4L107FDA	65,257
		KH4L131DDA	KH4L131FDA	72,355
	4	KH4L167DDA	KH4L167FDA	94,817
				108,874

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

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.

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
# of Fans	TXV, LLSV, and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 54 • 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.

- 1 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.
- 2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // 3-Pipe Cycle Configurable Base Models

DUAL SPEED EC MOTORS // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/1/60		460/1/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KH6H033DDA	27,609	KH6H033FDA	28,164
		KH6H044DDA	32,965	KH6H044FDA	33,626
		KH6H053DDA	35,643	KH6H053FDA	36,356
	2	KH6H066DDA	42,900	KH6H066FDA	43,759
		KH6H089DDA	55,073	KH6H089FDA	56,175
		KH6H109DDA	65,659	KH6H109FDA	66,971
	3	KH6H134DDA	72,803	KH6H134FDA	74,259
		KH6H163DDA	95,402	KH6H163FDA	97,310
4	KH6H199DDA	109,543	KH6H199FDA	111,732	
4 FPI	1	KH4H035DDA	31,646	KH4H035FDA	32,281
		KH4H044DDA	34,216	KH4H044FDA	34,900
	2	KH4H071DDA	52,872	KH4H071FDA	53,929
		KH4H087DDA	63,030	KH4H087FDA	64,292
	3	KH4H107DDA	69,888	KH4H107FDA	71,286
		KH4H131DDA	91,584	KH4H131FDA	93,417
	4	KH4H167DDA	105,160	KH4H167FDA	107,265

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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.

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // 3-Pipe Cycle Configurable Base Models

DUAL SPEED EC MOTORS // HOT GAS DRAIN PAN HEATER

# of Fans	208-230/1/60		460/1/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KH6K033DDA	28,025	KH6K033FDA	28,586
		KH6K044DDA	33,460	KH6K044FDA	34,131
		KH6K053DDA	36,181	KH6K053FDA	36,904
	2	KH6K066DDA	43,545	KH6K066FDA	44,415
		KH6K089DDA	55,902	KH6K089FDA	57,018
		KH6K109DDA	66,642	KH6K109FDA	67,975
	3	KH6K134DDA	73,894	KH6K134FDA	75,373
		KH6K163DDA	96,833	KH6K163FDA	98,769
4	KH6K199DDA	111,186	KH6K199FDA	113,408	
4 FPI	1	KH4K035DDA	32,122	KH4K035FDA	32,764
		KH4K044DDA	34,731	KH4K044FDA	35,426
	2	KH4K071DDA	53,666	KH4K071FDA	54,736
		KH4K087DDA	63,976	KH4K087FDA	65,257
	3	KH4K107DDA	70,939	KH4K107FDA	72,355
		KH4K131DDA	92,959	KH4K131FDA	94,817
	4	KH4K167DDA	106,739	KH4K167FDA	108,874

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

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.

WALK-IN UNIT COOLERS

Heavy Duty



Hot Gas Defrost // 3-Pipe Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,312	2,242	1,004	514	771	531	1,067
2	2,000	2,242	1,249	514	771	531	1,419
3	2,000	3,097	1,249	514	771	531	1,827
4	2,000	3,097	1,436	514	771	531	2,099

Shipped-Loose Accessories are found on page 54 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS // HEAVY DUTY

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	258
HX-50	105065003	13	3/8	5/8	302
HX-75	105065004	14	3/8	7/8	414
HX-100	105065005	14	3/8	1-1/8	528
HX-150	105065006	14	1/2	1-1/8	611
HX-250	105065007	14	5/8	1-3/8	843
HX-350	105065008	16	5/8	1-5/8	864
HX-500	105065009	17	7/8	2-1/8	1,371
LHX-15	105065010	30	7/8	2-1/8	3,763
LHX-20	105065011	30	1-1/8	2-1/8	4,025
LHX-25	105065012	30	1-1/8	2-5/8	4,311

WALK-IN UNIT COOLERS

Warehouse

Medium to Large Walk-Ins
Cooler & Freezer Applications in boxes >3,000 sq. ft.



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
- ▶ Available as single through four fan models

Options

- ▶ EcoNet® Enabled Unit Cooler controller
- ▶ EcoNet Command Center
- ▶ Reverse connections
- ▶ Painted housing
- ▶ Coated Coil
- ▶ Suction/Liquid Heat Exchanger
- ▶ Insulated drain pan

BTUH

Air Defrost	Electric Defrost	Hot Gas Defrost
34,500 - 282,500	36,400 - 246,100	36,400 - 246,100

Nomenclature

K	W	6	E	143	E	T	A
Brand	Style	Fins Per Inch	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	W - Warehouse Z - Reverse Connections	6 FPI 4 FPI	A - Air E - Electric H - Hot Gas 3-Pipe + Electric Drain Pan K - Hot Gas 3-Pipe + Hot Gas Drain Pan G - Hot Gas Reverse + Electric Drain Pan L - Hot Gas Reverse + Hot Gas Drain Pan	# x 1,000 = BTUH	E - 208-230/3/60 G - 460/3/60	T - 3 Phase H - 3 Phase + High-Static (Pressure Prop) Fan Blades	

DOE AWEF specifications do not apply to boxes over 3,000 square feet

WALK-IN UNIT COOLERS

Warehouse



Air Defrost Configurable Base Models

THREE-PHASE MOTOR // STANDARD FAN // 6 FPI				
# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
1	KW6A034ETA	18,186	KW6A034GTA	18,550
	KW6A047ETA	19,975	KW6A047GTA	20,374
	KW6A058ETA	20,934	KW6A058GTA	21,352
2	KW6A069ETA	23,329	KW6A069GTA	23,796
	KW6A094ETA	32,966	KW6A094GTA	33,626
	KW6A117ETA	36,995	KW6A117GTA	37,737
3	KW6A143ETA	39,492	KW6A143GTA	40,281
	KW6A176ETA	52,913	KW6A176GTA	53,973
4	KW6A190ETA	61,435	KW6A190GTA	62,666
	KW6A234ETA	68,346	KW6A234GTA	69,713

Air Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,312	2,242	7,744	1,004	514	771	1,067
2	2,000	2,242	7,744	1,249	514	771	1,419
3	2,000	3,097	7,744	1,249	514	771	1,827
4	2,000	3,097	7,744	1,436	514	771	2,099

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz. • Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

Shipped-Loose Accessories are found on page 68 • 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.

WALK-IN UNIT COOLERS

Warehouse



Electric Defrost Configurable Base Models

THREE-PHASE MOTOR // **STANDARD FAN**

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KW6E036ETA	20,662	KW6E036GTA	21,071
		KW6E047ETA	24,667	KW6E047GTA	25,159
		KW6E059ETA	26,669	KW6E059GTA	27,203
	2	KW6E072ETA	36,112	KW6E072GTA	36,834
		KW6E096ETA	46,361	KW6E096GTA	47,287
		KW6E120ETA	55,269	KW6E120GTA	56,374
	3	KW6E143ETA	61,281	KW6E143GTA	62,509
		KW6E179ETA	83,797	KW6E179GTA	85,471
	4	KW6E216ETA	96,216	KW6E216GTA	98,142
4 FPI	1	KW4E038ETA	23,678	KW4E038GTA	24,152
		KW4E048ETA	25,602	KW4E048GTA	26,115
	2	KW4E077ETA	44,506	KW4E077GTA	45,396
		KW4E097ETA	53,058	KW4E097GTA	54,117
	3	KW4E115ETA	58,831	KW4E115GTA	60,008
		KW4E145ETA	80,445	KW4E145GTA	82,054
	4	KW4E182ETA	92,367	KW4E182GTA	94,215

Electric Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,312	2,242	7,744	1,004	514	771	531	1,067
2	2,000	2,242	7,744	1,249	514	771	531	1,419
3	2,000	3,097	7,744	1,249	514	771	531	1,827
4	2,000	3,097	7,744	1,436	514	771	531	2,099

Shipped-Loose Accessories are found on page 68 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz. • Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

WALK-IN UNIT COOLERS

Warehouse



Electric Defrost Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN

# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KW6E036EHA 22,932	KW6E036GHA 23,391	
		KW6E047EHA 27,379	KW6E047GHA 27,926	
		KW6E059EHA 29,605	KW6E059GHA 30,195	
	2	KW6E072EHA 40,085	KW6E072GHA 40,884	
		KW6E096EHA 51,460	KW6E096GHA 52,489	
		KW6E120EHA 61,348	KW6E120GHA 62,575	
	3	KW6E143EHA 68,022	KW6E143GHA 69,384	
		KW6E179EHA 93,012	KW6E179GHA 94,873	
4 FPI	4	KW6E216EHA 106,801	KW6E216GHA 108,935	
	1	KW4E038EHA 26,282	KW4E038GHA 26,807	
		KW4E048EHA 28,419	KW4E048GHA 28,987	
	2	KW4E077EHA 49,403	KW4E077GHA 50,389	
		KW4E097EHA 58,894	KW4E097GHA 60,071	
	3	KW4E115EHA 65,301	KW4E115GHA 66,607	
		KW4E145EHA 89,291	KW4E145GHA 91,079	
	4	KW4E182EHA 102,527	KW4E182GHA 104,579	

Electric Defrost Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	EcoNet Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,312	2,242	7,744	1,004	514	771	531	1,067
2	2,000	2,242	7,744	1,249	514	771	531	1,419
3	2,000	3,097	7,744	1,249	514	771	531	1,827
4	2,000	3,097	7,744	1,436	514	771	531	2,099

Shipped-Loose Accessories are found on page 68 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

2 EcoNet Control Package is not available in 50 Hz. • Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // Reverse Cycle Configurable Base Models

THREE-PHASE MOTOR // STANDARD FAN // ELECTRIC DRAIN PAN HEATER				
# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KW6G036ETA	KW6G036GTA	20,454
		KW6G047ETA	KW6G047GTA	24,419
		KW6G059ETA	KW6G059GTA	26,401
	2	KW6G072ETA	KW6G072GTA	35,750
		KW6G096ETA	KW6G096GTA	45,895
		KW6G120ETA	KW6G120GTA	54,714
	3	KW6G143ETA	KW6G143GTA	60,669
		KW6G179ETA	KW6G179GTA	82,957
4 FPI	1	KW6G216ETA	KW6G216GTA	95,253
		KW4G038ETA	KW4G038GTA	23,444
	2	KW4G048ETA	KW4G048GTA	25,347
		KW4G077ETA	KW4G077GTA	44,061
		KW4G097ETA	KW4G097GTA	52,527
	3	KW4G115ETA	KW4G115GTA	58,242
		KW4G145ETA	KW4G145GTA	79,640
	4	KW4G182ETA	KW4G182GTA	91,442

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
# of Fans	TXV, LLSV and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 68 • 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.

¹ 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.

² Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // Reverse Cycle Configurable Base Models

THREE-PHASE MOTOR // STANDARD FAN // HOT GAS DRAIN PAN HEATER				
# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KW6L036ETA	KW6L036GTA	21,758
		KW6L047ETA	KW6L047GTA	25,282
		KW6L059ETA	KW6L059GTA	27,335
	2	KW6L072ETA	KW6L072GTA	37,016
		KW6L096ETA	KW6L096GTA	47,517
		KW6L120ETA	KW6L120GTA	56,650
	3	KW6L143ETA	KW6L143GTA	62,813
		KW6L179ETA	KW6L179GTA	85,887
	4	KW6L216ETA	KW6L216GTA	98,616
4 FPI	1	KW4L038ETA	KW4L038GTA	24,270
		KW4L048ETA	KW4L048GTA	26,240
	2	KW4L077ETA	KW4L077GTA	45,616
		KW4L097ETA	KW4L097GTA	54,383
	3	KW4L115ETA	KW4L115GTA	60,299
		KW4L145ETA	KW4L145GTA	82,451
	4	KW4L182ETA	KW4L182GTA	94,671

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
# of Fans	TXV, LLSV and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 68 • 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.

1 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.

2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // Reverse Cycle Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KW6G036EHA	22,701	KW6G036GHA	23,155
		KW6G047EHA	27,103	KW6G047GHA	27,647
		KW6G059EHA	29,307	KW6G059GHA	29,891
	2	KW6G072EHA	39,683	KW6G072GHA	40,477
		KW6G096EHA	50,945	KW6G096GHA	51,963
		KW6G120EHA	60,736	KW6G120GHA	61,950
	3	KW6G143EHA	67,343	KW6G143GHA	68,691
		KW6G179EHA	92,085	KW6G179GHA	93,928
4	KW6G216EHA	105,732	KW6G216GHA	107,845	
4 FPI	1	KW4G038EHA	26,021	KW4G038GHA	26,541
		KW4G048EHA	28,134	KW4G048GHA	28,697
	2	KW4G077EHA	48,908	KW4G077GHA	49,886
		KW4G097EHA	58,306	KW4G097GHA	59,472
	3	KW4G115EHA	64,650	KW4G115GHA	65,942
		KW4G145EHA	88,401	KW4G145GHA	90,169
	4	KW4G182EHA	101,502	KW4G182GHA	103,532

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV, LLSV and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 68 • 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.

1 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.

2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // Reverse Cycle Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN // HOT GAS DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KW6L036EHA 23,042	KW6L036GHA 23,504	
		KW6L047EHA 27,509	KW6L047GHA 28,063	
		KW6L059EHA 29,746	KW6L059GHA 30,341	
	2	KW6L072EHA 40,280	KW6L072GHA 41,085	
		KW6L096EHA 51,709	KW6L096GHA 52,740	
		KW6L120EHA 61,645	KW6L120GHA 62,879	
	3	KW6L143EHA 68,353	KW6L143GHA 69,723	
		KW6L179EHA 93,466	KW6L179GHA 95,336	
4 FPI	4	KW6L216EHA 107,318	KW6L216GHA 109,465	
	1	KW4L038EHA 26,413	KW4L038GHA 26,942	
		KW4L048EHA 28,555	KW4L048GHA 29,126	
	2	KW4L077EHA 49,639	KW4L077GHA 50,636	
		KW4L097EHA 59,180	KW4L097GHA 60,364	
	3	KW4L115EHA 65,618	KW4L115GHA 66,931	
		KW4L145EHA 89,726	KW4L145GHA 91,523	
	4	KW4L182EHA 103,023	KW4L182GHA 105,087	

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV, LLSV and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 68 • 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.

1 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.

2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // Reverse Cycle Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KW6G036EHA	22,701	KW6G036GHA	23,155
		KW6G047EHA	27,103	KW6G047GHA	27,647
		KW6G059EHA	29,307	KW6G059GHA	29,891
	2	KW6G072EHA	39,683	KW6G072GHA	40,477
		KW6G096EHA	50,945	KW6G096GHA	51,963
		KW6G120EHA	60,736	KW6G120GHA	61,950
	3	KW6G143EHA	67,343	KW6G143GHA	68,691
		KW6G179EHA	92,085	KW6G179GHA	93,928
4	KW6G216EHA	105,732	KW6G216GHA	107,845	
4 FPI	1	KW4G038EHA	26,021	KW4G038GHA	26,541
		KW4G048EHA	28,134	KW4G048GHA	28,697
	2	KW4G077EHA	48,908	KW4G077GHA	49,886
		KW4G097EHA	58,306	KW4G097GHA	59,472
	3	KW4G115EHA	64,650	KW4G115GHA	65,942
		KW4G145EHA	88,401	KW4G145GHA	90,169
	4	KW4G182EHA	101,502	KW4G182GHA	103,532

All Hot Gas Reverse Cycle Unit Coolers Require a TXV/LLSV/Check Valve or an EEV

Hot Gas Defrost // Reverse Cycle Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV, LLSV and Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	3,287	2,242	514	771	531	1,036
2	4,220	2,242	514	771	531	1,377
3	4,220	3,097	514	771	531	1,774
4	4,408	3,097	514	771	531	2,037

Shipped-Loose Accessories are found on page 68 • 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.

1 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.

2 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // 3-Pipe Configurable Base Models

THREE-PHASE MOTOR // STANDARD FAN // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KW6H036ETA	20,454	KW6H036GTA	20,861
		KW6H047ETA	24,419	KW6H047GTA	24,908
		KW6H059ETA	26,401	KW6H059GTA	26,931
	2	KW6H072ETA	35,750	KW6H072GTA	36,466
		KW6H096ETA	45,895	KW6H096GTA	46,812
		KW6H120ETA	54,714	KW6H120GTA	55,810
	3	KW6H143ETA	60,669	KW6H143GTA	61,882
		KW6H179ETA	82,957	KW6H179GTA	84,619
4	KW6H216ETA	95,253	KW6H216GTA	97,158	
4 FPI	1	KW4H038ETA	23,444	KW4H038GTA	23,913
		KW4H048ETA	25,347	KW4H048GTA	25,853
	2	KW4H077ETA	44,061	KW4H077GTA	44,942
		KW4H097ETA	52,527	KW4H097GTA	53,577
	3	KW4H115ETA	58,242	KW4H115GTA	59,407
		KW4H145ETA	79,640	KW4H145GTA	81,235
	4	KW4H182ETA	91,442	KW4H182GTA	93,271

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

Hot Gas Defrost // 3-Pipe Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,352	2,309	1,030	530	790	531	1,102
2	2,059	2,309	1,290	530	790	531	1,456
3	2,059	3,193	1,290	530	790	531	1,882
4	2,059	3,193	1,477	530	790	531	2,163

Shipped-Loose Accessories are found on page 68 • 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.

¹ Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // 3-Pipe Configurable Base Models

THREE-PHASE MOTOR // STANDARD FAN // HOT GAS DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60		
	Model #	List Price (\$US)	Model #	List Price (\$US)	
6 FPI	1	KW6K036ETA	20,758	KW6K036GTA	21,174
		KW6K047ETA	24,782	KW6K047GTA	25,282
		KW6K059ETA	26,801	KW6K059GTA	27,335
	2	KW6K072ETA	36,288	KW6K072GTA	37,016
		KW6K096ETA	46,584	KW6K096GTA	47,517
		KW6K120ETA	55,537	KW6K120GTA	56,650
	3	KW6K143ETA	61,582	KW6K143GTA	62,813
		KW6K179ETA	84,206	KW6K179GTA	85,887
4	KW6K216ETA	96,683	KW6K216GTA	98,616	
4 FPI	1	KW4K038ETA	23,793	KW4K038GTA	24,270
		KW4K048ETA	25,723	KW4K048GTA	26,240
	2	KW4K077ETA	44,721	KW4K077GTA	45,616
		KW4K097ETA	53,316	KW4K097GTA	54,383
	3	KW4K115ETA	59,117	KW4K115GTA	60,299
		KW4K145ETA	80,835	KW4K145GTA	82,451
	4	KW4K182ETA	92,815	KW4K182GTA	94,671

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

Hot Gas Defrost // 3-Pipe Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,352	2,309	1,030	530	790	531	1,102
2	2,059	2,309	1,290	530	790	531	1,456
3	2,059	3,193	1,290	530	790	531	1,882
4	2,059	3,193	1,477	530	790	531	2,163

Shipped-Loose Accessories are found on page 68 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // 3-Pipe Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER

# of Fans	208-230/3/60		460/3/60	
	Model #	List Price (\$US)	Model #	List Price (\$US)
6 FPI	1	KW6H036EHA 22,701	KW6H036GHA 23,155	
		KW6H047EHA 27,103	KW6H047GHA 27,647	
		KW6H059EHA 29,307	KW6H059GHA 29,891	
	2	KW6H072EHA 39,683	KW6H072GHA 40,477	
		KW6H096EHA 50,945	KW6H096GHA 51,963	
		KW6H120EHA 60,736	KW6H120GHA 61,950	
	3	KW6H143EHA 67,343	KW6H143GHA 68,691	
		KW6H179EHA 92,085	KW6H179GHA 93,928	
4 FPI	4	KW6H216EHA 105,732	KW6H216GHA 107,845	
	1	KW4H038EHA 26,021	KW4H038GHA 26,541	
		KW4H048EHA 28,134	KW4H048GHA 28,697	
	2	KW4H077EHA 48,908	KW4H077GHA 49,886	
		KW4H097EHA 58,306	KW4H097GHA 59,472	
	3	KW4H115EHA 64,650	KW4H115GHA 65,942	
		KW4H145EHA 88,401	KW4H145GHA 90,169	
	4	KW4H182EHA 101,502	KW4H182GHA 103,532	

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

Hot Gas Defrost // 3-Pipe Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)

# of Fans	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,352	2,309	1,030	530	790	531	1,102
2	2,059	2,309	1,290	530	790	531	1,456
3	2,059	3,193	1,290	530	790	531	1,882
4	2,059	3,193	1,477	530	790	531	2,163

Shipped-Loose Accessories are found on page 68 • 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.

1 Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS

Warehouse



Hot Gas Defrost // 3-Pipe Configurable Base Models

THREE-PHASE MOTOR // HIGH-STATIC FAN // HOT GAS DRAIN PAN HEATER					
# of Fans	208-230/3/60			460/3/60	
	Model #	List Price (\$US)		Model #	List Price (\$US)
6 FPI	1	KW6K036EHA	23,042	KW6K036GHA	23,504
		KW6K047EHA	27,509	KW6K047GHA	28,063
		KW6K059EHA	29,746	KW6K059GHA	30,341
	2	KW6K072EHA	40,280	KW6K072GHA	41,085
		KW6K096EHA	51,709	KW6K096GHA	52,740
		KW6K120EHA	61,645	KW6K120GHA	62,879
	3	KW6K143EHA	68,353	KW6K143GHA	69,723
		KW6K179EHA	93,466	KW6K179GHA	95,336
4	KW6K216EHA	107,318	KW6K216GHA	109,465	
4 FPI	1	KW4K038EHA	26,413	KW4K038GHA	26,942
		KW4K048EHA	28,555	KW4K048GHA	29,126
	2	KW4K077EHA	49,639	KW4K077GHA	50,636
		KW4K097EHA	59,180	KW4K097GHA	60,364
	3	KW4K115EHA	65,618	KW4K115GHA	66,931
		KW4K145EHA	89,726	KW4K145GHA	91,523
	4	KW4K182EHA	103,023	KW4K182GHA	105,087

All Hot Gas Defrost 3-Pipe Unit Coolers Require a TXV or an EEV

Hot Gas Defrost // 3-Pipe Configurable Options

FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
# of Fans	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,352	2,309	1,030	530	790	531	1,102
2	2,059	2,309	1,290	530	790	531	1,456
3	2,059	3,193	1,290	530	790	531	1,882
4	2,059	3,193	1,477	530	790	531	2,163

Shipped-Loose Accessories are found on page 68 • 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.

¹ Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.

WALK-IN UNIT COOLERS // WAREHOUSE

Shipped Loose Accessories



Controls & Thermostats

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,483
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	484
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	624

Valves

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,730
	16 to 25 Tons	2,484
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	567
	4 to 9 Tons	808
	10 to 30 Tons	1,420
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	478
	4 thru 8 HP	535
	9 thru 10 HP	776
	12 thru 15 HP	953
	22 HP	1,216

Heat Exchangers

Part #	Model #	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	258
HX-50	105065003	13	3/8	5/8	302
HX-75	105065004	14	3/8	7/8	414
HX-100	105065005	14	3/8	1-1/8	528
HX-150	105065006	14	1/2	1-1/8	611
HX-250	105065007	14	5/8	1-3/8	843
HX-350	105065008	16	5/8	1-5/8	864
HX-500	105065009	17	7/8	2-1/8	1,371
LHX-15	105065010	30	7/8	2-1/8	3,763
LHX-20	105065011	30	1-1/8	2-1/8	4,025
LHX-25	105065012	30	1-1/8	2-5/8	4,311

Air-Cooled Condensing Units

MODELS



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Standard Features

- ▶ Hermetic or Scroll Compressors
- ▶ All-weather - Galvanized steel painted housing
- ▶ Generously sized high efficiency condenser, enhanced copper tubes/aluminum fins
- ▶ Integral Liquid Sub-cooling Circuit provides sub-cooled 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 adjustable low pressure control
- ▶ 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

Options

- ▶ Suction Accumulator
- ▶ Oil separator (may not be available with mounted accumulator)
- ▶ Thru-the door fused disconnect for cabinet sizes FM2 through FM4
- ▶ External fused or non-fused disconnect loose or mounted
- ▶ Heated and insulated receiver
- ▶ Oversized receiver
- ▶ Adjustable high/low pressure control
- ▶ Hose option for adjustable pressure control

Nomenclature

K	F	H	150	E	4S	D	A	NT
Brand	Style	Compressor	Horsepower	Temperature	Refrigerant	Voltage	Vintage ¹	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 - 230/1/60 E - 208-230/3/60 G - 460/3/60 M - 200-220/1/50 N - 200-220/3/50 Q - 380/3/50		NT - No Defrost Timer /Kit ³

Pre-Configuration Codes²



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

50 Hz available. Contact Factory for additional information.

- 1 A Vintage has standard PSC motor(s). B Vintage has standard High Efficiency motors.
- 2 Pre-Configuration Codes are used to show common Factory Mounted options and are not available for every model.
- 3 "NT" pre-configuration code is available on Flooded Models with 230/1/60 or 208-230/3/60 voltage.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Hermetic Compressor // Configurable Base Models

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 #	208-230/1/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KFH055E4SDB	Air Defrost Timer	11,727	205
		0.75	RST55C1E	KFH080E4SDB	Air Defrost Timer	11,826	205
		1.00	RST70C1E	KFH100E4SDB	Air Defrost Timer	13,157	225
	FM2	1.25	RST97C1E	KFH125E4SDB	Air Defrost Timer	13,780	225

Non-Flooded // Hermetic Compressor // Configurable Base Models

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

	Cabinet Size	Nom. H.P.	Compressor Model #	208-230/1/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KBH055E4SDB	Air Defrost Timer	10,987	205
		0.75	RST55C1E	KBH080E4SDB	Air Defrost Timer	11,131	205
		1.00	RST70C1E	KBH100E4SDB	Air Defrost Timer	12,338	225
	FM2	1.25	RST97C1E	KBH125E4SDB	Air Defrost Timer	12,940	225

Flooded // Hermetic Compressor // 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 #	208-230/1/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KFH055E4SDBNT	10,909	205
		0.75	RST55C1E	KFH080E4SDBNT	11,008	205
		1.00	RST70C1E	KFH100E4SDBNT	12,339	225
	FM2	1.25	RST97C1E	KFH125E4SDBNT	12,962	225

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Hermetic Compressor // Configurable Base Models

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 #	208-230/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KFH100E4SEB	Air Defrost Timer	13,009	205
	FM2	1.25	RST97C1E	KFH125E4SEB	Air Defrost Timer	13,625	225

Non-Flooded // Hermetic Compressor // Configurable Base Models

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

	Cabinet Size	Nom. H.P.	Compressor Model #	208-230/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KBH100E4SEB	Air Defrost Timer	12,186	205
	FM2	1.25	RST97C1E	KBH125E4SEB	Air Defrost Timer	12,817	225

Flooded // Hermetic Compressor // 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

				208-230/3/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
Cabinet Size		Nom. H.P.	Compressor Model #	Model #	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KFH100E4SEBNT	12,191	205
	FM2	1.25	RST97C1E	KFH125E4SEBNT	12,807	225

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Scroll Compressor // Configurable Base Models

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 #	208-230/1/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SDA	Air Defrost Timer	12,210	413	381
		0.75	ZB07KAE	KFO080M4SDA	Air Defrost Timer	12,893	413	381
		1.0	ZB08KAE	KFO100M4SDA	Air Defrost Timer	13,134	413	381
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SDA	Air Defrost Timer	13,906	413	381
		1.25	ZS11KAE	KFO150E4SDA	Air Defrost Timer	13,999	826	381
		1.5	ZS13KAE	KFO180E4SDA	Air Defrost Timer	15,487	826	381
	FM3	2.0	ZS15KAE	KFO200E4SDA	Air Defrost Timer	15,502	826	381
		2.5	ZS19KAE	KFO250E4SDA	Air Defrost Timer	15,797	826	381
		2.8	ZS20KAE	KFO280E4SDA	Air Defrost Timer	16,678	826	500
	FM4	3.0	ZS21KAE	KFO300E4SDA	Air Defrost Timer	16,906	826	500
		3.5	ZS26KAE	KFO350E4SDA	Air Defrost Timer	18,570	826	500
		4.0	ZS29KAE	KFO400E4SDA	Air Defrost Timer	18,825	826	518
		4.5	ZS33KAE	KFO450E4SDA	Air Defrost Timer	20,314	826	518
		5.0	ZS38K4E	KFO500E4SDA	Air Defrost Timer	21,254	826	536
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SDA	ED-5	14,073	413	381
		1.3	ZF04KAE	KFO130L4SDA	ED-5	14,685	413	381
		1.5	ZF05KAE	KFO160L4SDA	ED-5	15,344	413	381
	FM2	2.3	ZF07K4E	KFO230L4SDA	ED-7	16,280	826	381
	FM3	2.5	ZF08K4E	KFO250L4SDA	ED-7	17,581	826	381
		3.0	ZF09K4E	KFO300L4SDA	ED-7	18,210	826	500
		3.5	ZF11K4E	KFO350L4SDA	ED-10	20,119	826	500
	FM4	4.0	ZF13K4E	KFO400L4SDB	ED-10	22,669	-	518
		5.0	ZF15K4E	KFO500L4SDB	ED-10	23,425	-	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82
- 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

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Non-Flooded // Scroll Compressor // Configurable Base Models
Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model #	208-230/1/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KBO060M4SDB	Air Defrost Timer	11,602	-	381
		0.75	ZB07KAE	KBO080M4SDB	Air Defrost Timer	12,286	-	381
		1.0	ZB08KAE	KBO100M4SDB	Air Defrost Timer	12,521	-	381
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KBO130E4SDB	Air Defrost Timer	13,220	-	381
		1.25	ZS11KAE	KBO150E4SDA	Air Defrost Timer	13,323	826	381
		1.5	ZS13KAE	KBO180E4SDA	Air Defrost Timer	14,502	826	381
	FM3	2.0	ZS15KAE	KBO200E4SDA	Air Defrost Timer	14,761	826	381
		2.5	ZS19KAE	KBO250E4SDA	Air Defrost Timer	15,046	826	381
		2.8	ZS20KAE	KBO280E4SDB	Air Defrost Timer	15,974	-	500
	FM4	3.0	ZS21KAE	KBO300E4SDB	Air Defrost Timer	16,277	-	500
		3.5	ZS26KAE	KBO350E4SDB	Air Defrost Timer	17,830	-	500
		4.0	ZS29KAE	KBO400E4SDB	Air Defrost Timer	18,105	-	518
		4.5	ZS33KAE	KBO450E4SDB	Air Defrost Timer	19,629	-	518
		5.0	ZS38K4E	KBO500E4SDB	Air Defrost Timer	20,621	-	536
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KBO100L4SDB	ED-5	13,311	-	381
		1.3	ZF04KAE	KBO130L4SDB	ED-5	13,974	-	381
		1.5	ZF05KAE	KBO160L4SDB	ED-5	14,668	-	381
	FM2	2.3	ZF07K4E	KBO230L4SDA	ED-7	15,643	826	381
	FM3	2.5	ZF08K4E	KBO250L4SDA	ED-7	16,971	826	381
		3.0	ZF09K4E	KBO300L4SDA	ED-7	18,006	826	500
		3.5	ZF11K4E	KBO350L4SDA	ED-10	19,449	826	500
	FM4	4.0	ZF13K4E	KBO400L4SDB	ED-10	22,059	-	518
		5.0	ZF15K4E	KBO500L4SDB	ED-10	22,712	-	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Scroll Compressor // 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 #	208-230/1/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	List Price (\$US)	
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SDANT	11,392	381
		0.75	ZB07KAE	KFO080M4SDANT	12,075	381
		1.0	ZB08KAE	KFO100M4SDANT	12,316	381
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SDANT	13,088	381
		1.25	ZS11KAE	KFO150E4SDANT	13,181	381
		1.5	ZS13KAE	KFO180E4SDANT	14,669	381
	FM3	2.0	ZS15KAE	KFO200E4SDANT	14,684	381
		2.5	ZS19KAE	KFO250E4SDANT	14,979	381
		2.8	ZS20KAE	KFO280E4SDANT	15,860	500
	FM4	3.0	ZS21KAE	KFO300E4SDANT	16,088	500
		3.5	ZS26KAE	KFO350E4SDANT	17,752	500
		4.0	ZS29KAE	KFO400E4SDANT	18,007	518
		4.5	ZS33KAE	KFO450E4SDANT	19,496	518
		5.0	ZS38K4E	KFO500E4SDANT	20,436	536
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SDANT	13,087	381
		1.3	ZF04KAE	KFO130L4SDANT	13,699	381
		1.5	ZF05KAE	KFO160L4SDANT	14,358	381
	FM2	2.3	ZF07K4E	KFO230L4SDANT	15,294	381
	FM3	2.5	ZF08K4E	KFO250L4SDANT	16,595	381
		3.0	ZF09K4E	KFO300L4SDANT	17,224	500
		3.5	ZF11K4E	KFO350L4SDANT	19,133	500
	FM4	4.0	ZF13K4E	KFO400L4SDBNT	21,683	518
		5.0	ZF15K4E	KFO500L4SDBNT	22,439	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Scroll Compressor // Configurable Base Models

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 #	208-230/3/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SEA	Air Defrost Timer	12,355	413	381
		0.75	ZB07KAE	KFO080M4SEA	Air Defrost Timer	13,233	413	381
		1.0	ZB08KAE	KFO100M4SEA	Air Defrost Timer	13,389	413	381
EXTENDED MEDIUM TEMPERATURE.	FM2	1.0	ZS09KAE	KFO130E4SEA	Air Defrost Timer	13,865	413	381
		1.25	ZS11KAE	KFO150E4SEA	Air Defrost Timer	14,094	826	381
		1.5	ZS13KAE	KFO180E4SEA	Air Defrost Timer	15,231	826	381
	FM3	2.0	ZS15KAE	KFO200E4SEA	Air Defrost Timer	15,609	826	381
		2.5	ZS19KAE	KFO250E4SEA	Air Defrost Timer	16,001	826	381
	FM4	2.8	ZS20KAE	KFO280E4SEA	Air Defrost Timer	16,932	826	500
		3.0	ZS21KAE	KFO300E4SEA	Air Defrost Timer	17,200	826	500
		3.5	ZS26KAE	KFO350E4SEA	Air Defrost Timer	18,862	826	500
		4.0	ZS29KAE	KFO400E4SEA	Air Defrost Timer	19,387	826	518
		4.5	ZS33KAE	KFO450E4SEA	Air Defrost Timer	19,912	826	518
		5.0	ZS38K4E	KFO500E4SEA	Air Defrost Timer	21,490	826	536
		6.0	ZS45K4E	KFO600E4SEA	Air Defrost Timer	23,845	826	536
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SEA	ED-5	14,260	413	381
		1.3	ZF04KAE	KFO130L4SEA	ED-5	14,883	413	381
		1.5	ZF05KAE	KFO160L4SEA	ED-5	15,551	413	381
	FM2	2.3	ZF07K4E	KFO230L4SEA	ED-5	16,502	826	381
	FM3	2.5	ZF08K4E	KFO250L4SEA	ED-6	17,895	826	381
		3.0	ZF09K4E	KFO300L4SEA	ED-6	18,548	826	500
		3.5	ZF11K4E	KFO350L4SEA	ED-7	20,347	826	500
	FM4	4.0	ZF13K4E	KFO400L4SEB	ED-7	22,897	-	518
		5.0	ZF15K4E	KFO500L4SEB	ED-11	23,552	-	536
		6.0	ZF18K4E	KFO600L4SEB	ED-11	24,919	-	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Non-Flooded // Scroll Compressor // Configurable Base Models
Includes Liquid Line Kit with Filter/Drier, Sight Glass with Moisture Indicator and Defrost Provisions

	Cabinet Size	Nom. H.P.	Compressor Model #	208-230/3/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KBO060M4SEB	Air Defrost Timer	11,741	–	381
		0.75	ZB07KAE	KBO080M4SEB	Air Defrost Timer	12,624	–	381
		1	ZB08KAE	KBO100M4SEB	Air Defrost Timer	12,781	–	381
EXTENDED MEDIUM TEMPERATURE	FM2	1	ZS09KAE	KBO130E4SEB	Air Defrost Timer	13,238	–	381
		1.25	ZS11KAE	KBO150E4SEA	Air Defrost Timer	13,461	826	381
		1.5	ZS13KAE	KBO180E4SEA	Air Defrost Timer	14,455	826	381
	FM3	2	ZS15KAE	KBO200E4SEA	Air Defrost Timer	14,863	826	381
		2.5	ZS19KAE	KBO250E4SEA	Air Defrost Timer	15,269	826	381
		3	ZS21KAE	KBO300E4SEB	Air Defrost Timer	16,552	–	500
	FM4	3.5	ZS26KAE	KBO350E4SEB	Air Defrost Timer	18,128	–	500
		4	ZS29KAE	KBO400E4SEB	Air Defrost Timer	18,665	–	518
		4.5	ZS33KAE	KBO450E4SEB	Air Defrost Timer	19,203	–	518
		5	ZS38K4E	KBO500E4SEB	Air Defrost Timer	20,861	–	536
		6	ZS45K4E	KBO600E4SEB	Air Defrost Timer	23,022	–	536
LOW TEMPERATURE	FM1	1	ZF03KAE	KBO100L4SEB	ED-5	13,316	–	381
		1.3	ZF04KAE	KBO130L4SEB	ED-5	14,045	–	381
		1.5	ZF05KAE	KBO160L4SEB	ED-5	14,790	–	381
	FM2	2.3	ZF07K4E	KBO230L4SEA	ED-5	15,857	826	381
	FM3	2.5	ZF08K4E	KBO250L4SEA	ED-6	17,288	826	381
		3	ZF09K4E	KBO300L4SEA	ED-6	17,939	826	500
		3.5	ZF11K4E	KBO350L4SEA	ED-7	19,737	826	500
	FM4	4	ZF13K4E	KBO400L4SEB	ED-7	22,288	–	518
		5	ZF15K4E	KBO500L4SEB	ED-11	22,942	–	536
		6	ZF18K4E	KBO600L4SEB	ED-11	24,312	–	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded // Scroll Compressor // 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 #	208-230/3/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model #	List Price (\$US)	
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SEANT	11,537	381
		0.75	ZB07KAE	KFO080M4SEANT	12,415	381
		1	ZB08KAE	KFO100M4SEANT	12,571	381
EXTENDED MEDIUM TEMPERATURE.	FM2	1	ZS09KAE	KFO130E4SEANT	13,047	381
		1.25	ZS11KAE	KFO150E4SEANT	13,276	381
		1.5	ZS13KAE	KFO180E4SEANT	14,413	381
	FM3	2	ZS15KAE	KFO200E4SEANT	14,791	381
		2.5	ZS19KAE	KFO250E4SEANT	15,183	381
		3	ZS21KAE	KFO300E4SEANT	16,382	500
	FM4	3.5	ZS26KAE	KFO350E4SEANT	18,044	500
		4	ZS29KAE	KFO400E4SEANT	18,569	518
		4.5	ZS33KAE	KFO450E4SEANT	19,094	518
		5	ZS38K4E	KFO500E4SEANT	20,672	536
		6	ZS45K4E	KFO600E4SEANT	23,027	536
LOW TEMPERATURE	FM1	1	ZF03KAE	KFO100L4SEANT	13,274	381
		1.3	ZF04KAE	KFO130L4SEANT	13,897	381
		1.5	ZF05KAE	KFO160L4SEANT	14,565	381
	FM2	2.3	ZF07K4E	KFO230L4SEANT	15,516	381
		2.5	ZF08K4E	KFO250L4SEANT	16,909	381
	FM3	3	ZF09K4E	KFO300L4SEANT	17,562	500
		3.5	ZF11K4E	KFO350L4SEANT	19,361	500
		4	ZF13K4E	KFO400L4SEBNT	21,911	518
	FM4	5	ZF15K4E	KFO500L4SEBNT	22,566	536
		6	ZF18K4E	KFO600L4SEBNT	23,933	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Flooded - Scroll Compressor // Configurable Base Models

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

				460/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
	Cabinet Size	Nom. H.P.	Compressor Model #	Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMPERATURE.	FM2	1.25	ZS11KAE	KFO150E4SGA	Air Defrost Timer	15,633	381
		1.5	ZS13KAE	KFO180E4SGA	Air Defrost Timer	16,384	381
	FM3	2.0	ZS15KAE	KFO200E4SGA	Air Defrost Timer	16,569	381
		2.5	ZS19KAE	KFO250E4SGA	Air Defrost Timer	16,803	381
	FM4	2.8	ZS20KAE	KFO280E4SGA	Air Defrost Timer	17,709	500
		3.0	ZS21KAE	KFO300E4SGA	Air Defrost Timer	17,920	500
		3.5	ZS26KAE	KFO350E4SGA	Air Defrost Timer	19,532	500
		4.0	ZS29KAE	KFO400E4SGA	Air Defrost Timer	20,301	518
		4.5	ZS33KAE	KFO450E4SGA	Air Defrost Timer	21,916	518
		5.0	ZS38K4E	KFO500E4SGA	Air Defrost Timer	22,155	536
		6.0	ZS45K4E	KFO600E4SGA	Air Defrost Timer	24,518	536
LOW TEMPERATURE	FM2	2.3	ZF07K4E	KFO230L4SGA	ED-17	17,899	381
	FM3	2.5	ZF08K4E	KFO250L4SGA	ED-17	19,295	381
		3.0	ZF09K4E	KFO300L4SGA	ED-17	19,625	500
		3.5	ZF11K4E	KFO350L4SGA	ED-17	21,015	500
	FM4	4.0	ZF13K4E	KFO400L4SGB	ED-17	23,219	518
		5.0	ZF15K4E	KFO500L4SGB	ED-17	23,940	536
		6.0	ZF18K4E	KFO600L4SGB	ED-17	25,320	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Non-Flooded // Scroll Compressor // Configurable Base Models

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

				460/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
	Cabinet Size	Nom. H.P.	Compressor Model #	Model #	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMPERATURE.	FM2	1.25	ZS11KAE	KBO150E4SGA	Air Defrost Timer	14,999	381
		1.5	ZS13KAE	KBO180E4SGA	Air Defrost Timer	15,682	381
	FM3	2.0	ZS15KAE	KBO200E4SGA	Air Defrost Timer	15,866	381
		2.5	ZS19KAE	KBO250E4SGA	Air Defrost Timer	16,101	381
	FM4	2.8	ZS20KAE	KBO280E4SGB	Air Defrost Timer	17,039	500
		3.0	ZS21KAE	KBO300E4SGB	Air Defrost Timer	17,311	500
		3.5	ZS26KAE	KBO350E4SGB	Air Defrost Timer	18,823	500
		4.0	ZS29KAE	KBO400E4SGB	Air Defrost Timer	19,646	518
		4.5	ZS33KAE	KBO450E4SGB	Air Defrost Timer	21,052	518
		5.0	ZS38K4E	KBO500E4SGB	Air Defrost Timer	21,482	536
		6.0	ZS45K4E	KBO600E4SGB	Air Defrost Timer	23,808	536
LOW TEMPERATURE	FM2	2.3	ZF07K4E	KBO230L4SGA	ED-17	16,899	381
	FM3	2.5	ZF08K4E	KBO250L4SGA	ED-17	18,331	381
		3.0	ZF09K4E	KBO300L4SGA	ED-17	18,930	500
		3.5	ZF11K4E	KBO350L4SGA	ED-17	20,407	500
	FM4	4.0	ZF13K4E	KBO400L4SGB	ED-17	22,612	518
		5.0	ZF15K4E	KBO500L4SGB	ED-17	23,330	536
		6.0	ZF18K4E	KBO600L4SGB	ED-17	24,711	536

- Factory Mounted Options are found on pages 81-82 & Shipped-Loose Accessories are found on page 82.
- 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



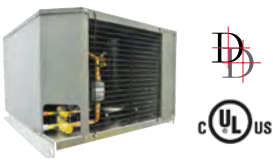
Factory Installed Options // General

Option Description	Cabinet Size	List Price Adder (\$US)
Crankcase Heater	ALL	STANDARD
Fixed High/Adjustable Low Pressure Control	ALL	STANDARD
Adjustable High/Adjustable Low Pressure Control	ALL	574
Liquid Line With Components: Sealed Filter	ALL	STANDARD
Liquid Line Without Components: Pipe Only	FM1	(456)
	FM2 - FM4	(541)
Liquid Line with Premium Components: Replaceable Core Filter/Drier ¹	FM4	846
Suction Line Components: Sealed Filter	FM1	549
	FM2 - FM4	654
Suction Line Components: Replaceable Core Filter ¹	FM4	1,925
Suction Line Accumulator	FM1	847
	FM2 - FM4	1,307
Oil Separator	FM4	2,079
	FM1	702
	FM2	837
Over-Sized Receiver	FM3	2,000
	FM4	2,052
Compressor Pump-down Switch	ALL	541
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	ALL	1,146
Phase Loss Monitor [^]	ALL	1,880
Copper Fins Or Electro Fin Coated Coil	ALL	CONTACT FACTORY
Thru The Door - Non - Fused - Disconnect Switch	FM1 - FM2	806
	FM3 - FM4	1,071
External Fused Disconnect (Mounted)	FM1 - FM2	906
	FM3 - FM4	1,670
Variable Speed EC Motors & Controller	FM1	1,636
	FM2	2,226
	FM3	2,484
	FM4	1,806

See notes on next page.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Factory Installed Options // Common Defrost Components

Option Description	Cabinet Size	List Price Adder (\$US)	
		Medium Temp	Low Temp
Standard (Electronic) Air Defrost Timer*	ALL	STANDARD	-
Remove Standard Air Defrost Timer	ALL	(818)	-
Standard Defrost Kit (ED5 - ED11)	ALL	-	STANDARD
Substitute Standard Air Defrost Timer For Standard Defrost Kit (ED5-ED11)	ALL	168	-
Remove Standard Defrost Kit	ALL	-	(986)

Negative numbers (in parentheses) represent the price to be deducted from base price if a standard feature is removed.

1 If ordering a Replaceable Core Suction Filter, a Replaceable Core Line Liquid Filter must also be ordered. If ordering a Replaceable Core Liquid Line Filter, a Replaceable Core Suction Filter must also be ordered.

^ Only available on units that are 3 Phase.

* 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 83-85.

Shipped-Loose Accessories

Option Description	Cabinet Size	List Price Adder (\$US)
Crankcase Pressure Regulating Valve	ALL	CONTACT FACTORY
External Fused Disconnect	FM4	1,531
Two-Tiered Stacking Rack	ALL	CONTACT FACTORY
Snow / Hail Guards	FM1	627
	FM2	692
	FM3	750
	FM4	918

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Electric Defrost Kits - Defrost Kit Nomenclature

ED	1	2	—	M	48
Kit Designator	Unit Coolers per System	Defrost Kit Identifier		Defrost Heater Phase	Defrost Heater Voltage
	1, 2, or 3				2 - 208-230 4 - 460
				A - 1 Phase Fan Motor(s), 1 Phase Heater(s) B - 1 Phase Fan Motor(s), 3 Phase Heaters(s) C - 3 Phase Fan Motor(s), 3 Phase Heater(s)	

Electric Defrost Kits - Descriptions

The MiniCon 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.

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 460 V motors or when 230 V 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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Electric Defrost Kits // Kit Numbers

Kit #	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.

AIR-COOLED CONDENSING UNITS

Next-Gen MiniCon - 1/2-6 HP



Electric Defrost Kits // Pricing

Quantity of Unit Coolers Per System	Description	DEFROST KIT #				List Price Adder (Only Available Mounted)
		1 PH. FANS 1 PH. HTRS	1 PH. FANS 3 PH. HTRS	230 V	460 V	
				3 PH. FANS 3 PH. HTRS	3 PH. FANS 3 PH. HTRS	
DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/1						
1	Up to 15 Amps Heater (w/ relay)	ED5-A2	-	-	-	986
	20 Amps Heater (w/ relay)	ED6-A2	-	-	-	986
	25 Amps Heater (w/ relay)	ED7-A2	-	-	-	986
	Up to 30 Amps Heater (w/ relay)	ED10-A2	-	-	-	986
	30 Amps - Heater (w/ contactors)	-	ED11-B2	-	-	986
2	Up to 30 Amps Heater (w/ relay)	ED210-A2	-	-	-	1,074
	30 Amps Heater	ED211-A2	ED211-B2	-	-	1,074
	50 Amps Heater	ED213-A2	ED213-B2	-	-	2,156
	Up to 15 Amps Heaters each (w/relays)	ED20-A2	-	-	-	3,077
	15 Amps Heaters each	ED21-A2	ED21-B2	-	-	3,077
	25 Amps Heaters each (w/relays)	ED23-A2	-	-	-	3,163
	25 Amps Heaters each (w/contactors)	-	ED23-B2	-	-	3,163
DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/3, 460/3, OR 460/1.						
1	Up to 25 Amps Heater	ED17-A4	-	-	-	986
	30 Amps Heater	ED12-A4	ED12-BX	ED12-C2	ED12-C4	2246
	50 Amps Heater	-	ED14-BX	ED14-C2	ED14-C4	2629
2	Up to 15 Amps Heaters per Unit Cooler	-	ED22-BX	ED22-C2	ED22-C4	3779
	25 Amps Heaters per Unit Cooler	-	ED24-BX	ED24-C2	ED24-C4	3779
NOTE: Defrost Kits are only available factory mounted and cannot be shipped loose.						

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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 sub-cooling circuit
- ▶ Suction line piping (filter optional)
- ▶ Heavy duty three phase condenser fan motor(s)
- ▶ Crankcase heater
- ▶ Control circuit fuses
- ▶ Compressor Pump-down Switch
- ▶ Large electrical panel with hinged door
- ▶ 208-230 V 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

Options

- ▶ Electronic air defrost timer or electric defrost components
- ▶ Suction accumulator and/or oil separator
- ▶ Replaceable core suction and liquid filters with bypass
- ▶ Thru-the-door disconnect switch
- ▶ Copper or coated condenser fins
- ▶ Oversized receiver

Nomenclature

K	F	D	S	04	M	4S	E	A
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage	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 Q - 380/3/50	A or B

• 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.



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Discus Compressor // Medium Temperature // Configurable Base Models

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	2DC3R53K	04	208-230/3/60	KFDS04M4SEA	37,290	920
			460/3/60	KFDS04M4SGA	39,612	
	2DD3R63K	05	208-230/3/60	KFDS05M4SEA	37,964	920
			460/3/60	KFDS05M4SGA	40,191	
	2DL3R78K	06	208-230/3/60	KFDS06M4SEA	47,152	1,111
			460/3/60	KFDS06M4SGA	50,431	
	2DA3R89K	07	208-230/3/60	KFDS07M4SEA	48,153	1,111
			460/3/60	KFDS07M4SGA	51,095	
	3DA3R10M	08	208-230/3/60	KFDS08M4SEA	53,999	1,111
			460/3/60	KFDS08M4SGA	57,236	
	3DB3R12M	10	208-230/3/60	KFDS10M4SEA	57,908	1,450
			460/3/60	KFDS10M4SGA	60,902	
	3DF3R15M	12	208-230/3/60	KFDS12M4SEA	62,728	1,765
			460/3/60	KFDS12M4SGA	65,184	
	3DS3R17M	15	208-230/3/60	KFDS15M4SEA	64,116	2,248
			460/3/60	KFDS15M4SGA	66,281	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	2DC3R53K	04	208-230/3/60	KBDS04M4SEB	34,890	920
			460/3/60	KBDS04M4SGB	37,166	
	2DD3R63K	05	208-230/3/60	KBDS05M4SEB	35,547	920
			460/3/60	KBDS05M4SGB	37,735	
	2DL3R78K	06	208-230/3/60	KBDS06M4SEA	44,562	1,111
			460/3/60	KBDS06M4SGA	47,781	
	2DA3R89K	07	208-230/3/60	KBDS07M4SEA	45,542	1,111
			460/3/60	KBDS07M4SGA	48,433	
	3DA3R10M	08	208-230/3/60	KBDS08M4SEA	51,283	1,111
			460/3/60	KBDS08M4SGA	54,454	
	3DB3R12M	10	208-230/3/60	KBDS10M4SEA	55,115	1,450
			460/3/60	KBDS10M4SGA	58,054	
	3DF3R15M	12	208-230/3/60	KBDS12M4SEA	59,843	1,765
			460/3/60	KBDS12M4SGA	62,253	
	3DS3R17M	15	208-230/3/60	KBDS15M4SEA	62,421	2,248
			460/3/60	KBDS15M4SGA	64,585	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Discus Compressor // Low Temperature // Configurable Base Models

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	2DF3F16K	03	208-230/3/60	KFDS03L4SEA	36,304	920
			460/3/60	KFDS03L4SGA	38,819	
	2DL3F20K	04	208-230/3/60	KFDS04L4SEA	39,802	920
			460/3/60	KFDS04L4SGA	42,353	
	2DA3F23K	05	208-230/3/60	KFDS05L4SEA	40,763	920
			460/3/60	KFDS05L4SGA	43,660	
	3DA3F28K	06	208-230/3/60	KFDS06L4SEA	44,446	1,111
			460/3/60	KFDS06L4SGA	47,367	
	3DB3F33K	08	208-230/3/60	KFDS08L4SEA	49,761	1,111
			460/3/60	KFDS08L4SGA	52,112	
	3DF3F40K	09	208-230/3/60	KFDS09L4SEA	55,681	1,111
			460/3/60	KFDS09L4SGA	58,974	
	3DS3F46K	10	208-230/3/60	KFDS10L4SEA	60,447	1,450
			460/3/60	KFDS10L4SGA	61,491	
	4DBNF54K	12	208-230/3/60	KFDS12L4SEA	61,646	1,765
			460/3/60	KFDS12L4SGA	63,054	
	4DHNF63K	15	208-230/3/60	KFDS15L4SEA	64,791	2,248
			460/3/60	KFDS15L4SGA	65,823	
	4DJNF76K	22	208-230/3/60	KFDS22L4SEA	73,431	2,770
			460/3/60	KFDS22L4SGA	74,662	

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.
- Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	2DF3F16K	03	208-230/3/60	KBDS03L4SEB	34,607	920
			460/3/60	KBDS03L4SGB	37,125	
	2DL3F20K	04	208-230/3/60	KBDS04L4SEB	38,105	920
			460/3/60	KBDS04L4SGB	40,658	
	2DA3F23K	05	208-230/3/60	KBDS05L4SEB	39,067	920
			460/3/60	KBDS05L4SGB	41,964	
	3DA3F28K	06	208-230/3/60	KBDS06L4SEA	42,754	1,111
			460/3/60	KBDS06L4SGA	45,675	
	3DB3F33K	08	208-230/3/60	KBDS08L4SEA	48,063	1,111
			460/3/60	KBDS08L4SGA	50,420	
	3DF3F40K	09	208-230/3/60	KBDS09L4SEA	53,987	1,111
			460/3/60	KBDS09L4SGA	57,277	
	3DS3F46K	10	208-230/3/60	KBDS10L4SEA	58,753	1,450
			460/3/60	KBDS10L4SGA	59,797	
	4DBNF54K	12	208-230/3/60	KBDS12L4SEA	59,953	1,765
			460/3/60	KBDS12L4SGA	61,359	
	4DHNF63K	15	208-230/3/60	KBDS15L4SEA	63,101	2,248
			460/3/60	KBDS15L4SGA	64,128	
	4DJNF76K	22	208-230/3/60	KBDS22L4SEA	71,737	2,770
			460/3/60	KBDS22L4SGA	72,964	

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99..
- Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Scroll Compressor // Medium Temperature // Configurable Base Models

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	ZS29KAE	04	208-230/3/60	KFOS04E4SEA	33,625	518
			460/3/60	KFOS04E4SGA	36,281	
	ZS33KAE	05	208-230/3/60	KFOS05E4SEA	34,223	536
			460/3/60	KFOS05E4SGA	36,830	
	ZS38K4E	06	208-230/3/60	KFOS06E4SEA	38,997	536
			460/3/60	KFOS06E4SGA	42,125	
	ZS45K4E	07	208-230/3/60	KFOS07E4SEA	39,755	888
			460/3/60	KFOS07E4SGA	42,719	
	ZB58K5E	08	208-230/3/60	KFOS08E4SEA	41,328	888
			460/3/60	KFOS08E4SGA	44,379	
	ZB66K5E	09	208-230/3/60	KFOS09E4SEA	43,614	954
			460/3/60	KFOS09E4SGA	46,347	
	ZB76K5E	10	208-230/3/60	KFOS10E4SEA	50,991	954
			460/3/60	KFOS10E4SGA	52,930	
	ZB95K5E	13	208-230/3/60	KFOS13E4SEA	56,473	1,136
			460/3/60	KFOS13E4SGA	56,603	
	ZB114K5E	15	208-230/3/60	KFOS15E4SEA	63,055	1,145
			460/3/60	KFOS15E4SGA	65,935	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	ZS29KAE	04	208-230/3/60	KBOS04E4SEB	31,929	518
			460/3/60	KBOS04E4SGB	34,585	
	ZS33KAE	05	208-230/3/60	KBOS05E4SEB	32,527	536
			460/3/60	KBOS05E4SGB	35,135	
	ZS38K4E	06	208-230/3/60	KBOS06E4SEB	37,301	536
			460/3/60	KBOS06E4SGB	40,428	
	ZS45K4E	07	208-230/3/60	KBOS07E4SEA	38,061	888
			460/3/60	KBOS07E4SGA	41,024	
	ZB58K5E	08	208-230/3/60	KBOS08E4SEA	38,850	888
			460/3/60	KBOS08E4SGA	41,843	
	ZB66K5E	09	208-230/3/60	KBOS09E4SEA	41,097	954
			460/3/60	KBOS09E4SGA	43,773	
	ZB76K5E	10	208-230/3/60	KBOS10E4SEA	48,330	954
			460/3/60	KBOS10E4SGA	50,231	
	ZB95K5E	13	208-230/3/60	KBOS13E4SEA	53,708	1,136
			460/3/60	KBOS13E4SGA	53,836	
	ZB114K5E	15	208-230/3/60	KBOS15E4SEA	60,165	1,145
			460/3/60	KBOS15E4SGA	62,989	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Scroll Compressor // Low Temperature // Configurable Base Models

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	ZF25K4E	08	208-230/3/60	KFOS08L4SEA	38,314	888
			460/3/60	KFOS08L4SGA	40,579	
	ZF34K5E	10	208-230/3/60	KFOS10L4SEA	47,557	954
			460/3/60	KFOS10L4SGA	50,352	
	ZF41K5E	13	208-230/3/60	KFOS13L4SEA	53,749	1,136
			460/3/60	KFOS13L4SGA	54,670	
	ZF49K5E	15	208-230/3/60	KFOS15L4SEA	55,537	1,145
			460/3/60	KFOS15L4SGA	56,788	

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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	ZF25K4E	08	208-230/3/60	KBOS08L4SEB	36,616	888
			460/3/60	KBOS08L4SGB	38,882	
	ZF34K5E	10	208-230/3/60	KBOS10L4SEA	45,859	954
			460/3/60	KBOS10L4SGA	48,658	
	ZF41K5E	13	208-230/3/60	KBOS13L4SEA	52,054	1,136
			460/3/60	KBOS13L4SGA	52,976	
	ZF49K5E	15	208-230/3/60	KBOS15L4SEA	53,841	1,145
			460/3/60	KBOS15L4SGA	55,095	

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.
- Liquid Injection is standard on Low Temp. Scroll compressors.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Bitzer Compressor // Medium Temperature // Configurable Base Models

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	2DES-3	03	208-230/3/60	KFBS03E4SEA	40,144	920
			460/3/60	KFBS03E4SGA	42,778	
	2CES-4	04	208-230/3/60	KFBS04E4SEA	40,779	920
			460/3/60	KFBS04E4SGA	43,315	
	4FES-5	05	208-230/3/60	KFBS05E4SEA	41,436	920
			460/3/60	KFBS05E4SGA	43,881	
	4EES-6	06	208-230/3/60	KFBS06E4SEA	45,418	1,111
			460/3/60	KFBS06E4SGA	47,133	
	4DES-7	07	208-230/3/60	KFBS07E4SEA	49,343	1,111
			460/3/60	KFBS07E4SGA	50,328	
	4CES-9	08	208-230/3/60	KFBS08E4SEA	56,682	1,111
			460/3/60	KFBS08E4SGA	59,517	
	4TES-12	10	208-230/3/60	KFBS10E4SEA	57,367	1,450
			460/3/60	KFBS10E4SGA	60,757	
	4PES-15	12	208-230/3/60	KFBS12E4SEA	59,804	1,765
			460/3/60	KFBS12E4SGA	62,923	
	4NES-20	15	208-230/3/60	KFBS15E4SEA	61,167	2,248
			460/3/60	KFBS15E4SGA	64,159	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	2DES-3	03	208-230/3/60	KBBS03E4SEB	38,451	920
			460/3/60	KBBS03E4SGB	41,083	
	2CES-4	04	208-230/3/60	KBBS04E4SEB	39,082	920
			460/3/60	KBBS04E4SGB	41,620	
	4FES-5	05	208-230/3/60	KBBS05E4SEB	39,745	920
			460/3/60	KBBS05E4SGB	42,187	
	4EES-6	06	208-230/3/60	KBBS06E4SEA	43,724	1,111
			460/3/60	KBBS06E4SGA	45,438	
	4DES-7	07	208-230/3/60	KBBS07E4SEA	47,649	1,111
			460/3/60	KBBS07E4SGA	48,635	
	4CES-9	08	208-230/3/60	KBBS08E4SEA	53,913	1,111
			460/3/60	KBBS08E4SGA	56,694	
	4TES-12	10	208-230/3/60	KBBS10E4SEA	54,582	1,450
			460/3/60	KBBS10E4SGA	57,908	
	4PES-15	12	208-230/3/60	KBBS12E4SEA	56,976	1,765
			460/3/60	KBBS12E4SGA	60,035	
	4NES-20	15	208-230/3/60	KBBS15E4SEA	58,311	2,248
			460/3/60	KBBS15E4SGA	61,248	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Flooded // Bitzer Compressor // Low Temperature // Configurable Base Models

	Compressor Model #	Nom. H.P.	Voltage	Model#	List Price(\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	4FES-3	03	208-230/3/60	KFBS03L4SEA	35,603	920
			460/3/60	KFBS03L4SGA	36,999	
	4EES-4	04	208-230/3/60	KFBS04L4SEA	39,129	920
			460/3/60	KFBS04L4SGA	40,524	
	4DES-5	05	208-230/3/60	KFBS05L4SEA	41,115	920
			460/3/60	KFBS05L4SGA	42,656	
	4CES-6	06	208-230/3/60	KFBS06L4SEA	49,256	1,111
			460/3/60	KFBS06L4SGA	51,254	
	4TES-9	07	208-230/3/60	KFBS08L4SEA	52,688	1,111
			460/3/60	KFBS08L4SGA	54,603	
	4PES-12	08	208-230/3/60	KFBS09L4SEA	56,409	1,111
			460/3/60	KFBS09L4SGA	58,221	
	4NES-14	10	208-230/3/60	KFBS10L4SEA	60,186	1,450
			460/3/60	KFBS10L4SGA	62,000	
	4JE-15	12	208-230/3/60	KFBS12L4SEA	64,872	1,765
			460/3/60	KFBS12L4SGA	66,685	
	4HE-18	15	208-230/3/60	KFBS15L4SEA	69,666	2,248
			460/3/60	KFBS15L4SGA	71,472	
	4GE-23	22	208-230/3/60	KFBS22L4SEA	71,472	2,770
			460/3/60	KFBS22L4SGA	74,112	

Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



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

	Compressor Model #	Nominal H.P.	Voltage	Model #	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	4FES-3	03	208-230/3/60	KBBS03L4SEB	33,909	920
			460/3/60	KBBS03L4SGB	35,304	
	4EES-4	04	208-230/3/60	KBBS04L4SEB	37,432	920
			460/3/60	KBBS04L4SGB	38,826	
	4DES-5	05	208-230/3/60	KBBS05L4SEB	39,419	920
			460/3/60	KBBS05L4SGB	40,958	
	4CES-6	06	208-230/3/60	KBBS06L4SEB	47,562	1,111
			460/3/60	KBBS06L4SGB	49,560	
	4TES-9	07	208-230/3/60	KBBS08L4SEA	50,990	1,111
			460/3/60	KBBS08L4SGA	52,910	
	4PES-12	08	208-230/3/60	KBBS09L4SEA	54,712	1,111
			460/3/60	KBBS09L4SGA	56,524	
	4NES-14	10	208-230/3/60	KBBS10L4SEA	58,490	1,450
			460/3/60	KBBS10L4SGA	60,300	
	4JE-15	12	208-230/3/60	KBBS12L4SEA	63,177	1,765
			460/3/60	KBBS12L4SGA	64,988	
	4HE-18	15	208-230/3/60	KBBS15L4SEA	67,971	2,248
			460/3/60	KBBS15L4SGA	69,776	
	4GE-23	22	208-230/3/60	KBBS22L4SEA	66,153	2,770
			460/3/60	KBBS22L4SGA	72,415	

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 98-99.
- Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Factory Installed Options // Electrical Options

Option Description <i>(all options are factory mounted unless otherwise noted)</i>	Option #	H.P Range/ Cabinet	List Price Adder (\$US)
Through the Door Non-fused Disconnect Switch (only available mounted)	TDNM-3	3-10	2,678
	TDNM-4	12-22	2,995
External Fused Disconnect (available loose or mounted)	EFDM-2 (230 V)	3 - 6	1,734
	EFDM-3 (230 V)	7 - 10	2,061
	EFDM-4 (230 V)	12 - 22	4,398
	EFDM-2 (460 V)	3 - 6	2,036
	EFDM-3 (460 V)	7 - 10	3,663
	EFDM-4 (460 V)	12 - 22	6,047
Main Circuit Breaker	BKR-2	3 - 6	2,476
	BKR-3	7 - 10	3,118
	BKR-4	12 - 22	3,922
† Phase Loss Monitor	PLM	ALL	1,949
Anti Short Cycle Timer	ASC	ALL	1,152
Air Defrost Timer	TMR	ALL	959
Current Sensing Relay (Run proof)	CSR	ALL	1,277
Compressor Unloaders (Suction pressure control. Medium Temp reciprocating compressors only. 1 Step for 3D and larger compressors.)	UNL-1	When Available	3,584
Variable Speed EC Motors & Controller	-	FD1	4,182
	-	FD2 & FD3	7,101

† 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. For all other models, option is only available on units that are 3 Phase.

Factory Installed Options // Defrost Kits

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.

1 Unit Cooler per CU	Max Defrost Load	List Price (\$US)	2 Unit Coolers per CU	Max Defrost Load	List Price (\$US)	3 Unit Coolers per CU	Max Defrost Load	List Price (\$US)
DMA15	15	2,054	DMB35	35	3,112	DMC35	35	4,681
DMA20	20		DMB40	40		DMC40	40	
DMA24	24		DMB48	48		DMC48	48	
DMA30	30	2,294	DMB60	60	4,475	DMC60	60	5,787
DMA35	35		DMB96	96		DMC96	96	
DMA40	40							
DMA48	48	4,475						
DMB60	60							
DMB96	96							

Factory Installed Options - Mechanical Options (page 99)

1 If ordering a Replaceable Core Suction Filter, a Replaceable Core Line Liquid Filter must also be ordered. If ordering a Replaceable Core Liquid Line Filter, a Replaceable Core Suction Filter must also be ordered.

~ Requires field installation. Condensing units must be field installed

AIR-COOLED CONDENSING UNITS

Next-Gen II - 3-22 HP



Factory Installed Options // Mechanical Options

Option Description (all options are factory mounted unless otherwise noted)	Option #	H.P Range/ Cabinet	List Price Adder (\$US)
Suction Line Filter (sealed)	SK-5	3 - 8	802
	SK-6	9 - 10	1,362
	SK-7	12 - 22	2,122
Replaceable Core Suction Filter ¹	RSK-5	3 - 8	1,541
	RSK-6	9 - 10	2,104
	RSK-7	12 - 22	2,849
Replaceable Core Liquid Filter ¹	KLK-5	3 - 8	1,357
	KLK-6	9 - 10	1,542
	KLK-7	12 - 22	1,746
Suction Line Accumulator	ASK-4	3 - 8	1,357
	ASK-5	9 - 10	1,995
	ASK-6	12 - 22	4,166
Oil Separator	OS-1	3 - 6	2,311
	OS-2	7 - 10	2,461
	OS-3	12 - 22	2,890
Oversized Receivers	OSR-1	FD1	2,039
	OSR-2	FD2	1,141
	OSR-3	FD3	1,153
Pressure Relief Valve	RV	FD1 (standard receiver)	517
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	HIR	ALL	1,342
Crankcase Pressure Regulator (Do not use with MOP style TXV's. Must provide refrigerant type, holding temperature, suction temperature, and maximum design capacity.) Mounted for FD2 and FD3 cabinets only; loose for FD1 cabinet	CPR Valve	3 - 5	2,658
		6 - 9	2,946
		10 - 15	5,491
		22	8,592
Liquid Injection / Demand Cooling™ (Low Temp. Bitzer & Discus compressors)	LNJ	ALL	4,349
	SG-E	FD1	1,643
Hail / Snow Guards~ (shipped loose to prevent shipping damage)	SG-F	FD2	2,246
	SG-G	FD3	2,519
2 Unit Stacking Rack~ (shipped empty)	SR-2	FD1 or FD2	Call Factory
3 Unit Stacking Rack~ (shipped empty)	SR-3	FD1 or FD2	Call Factory

See notes on previous page.

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



Standard Features

- ▶ Available in single, dual or parallel compressor configurations from 15 to 100 HP
- ▶ Pre-paint 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 sub-cooling 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 (RF) Models include an adjustable head
- ▶ Pressure control valve
- ▶ Non-Flooded (RB) Models include electronic fan cycling control and a minimum charge monitor
- ▶ Parallel Compressor Models (RF*P/ RB*P) include an oil management system

Options

- ▶ EC fan motors for variable speed
- ▶ Air defrost timer or electric defrost components
- ▶ Electric defrost kits available for up to 4 evaporators
- ▶ Oversized receiver
- ▶ Condenser coil coating
- ▶ Liquid injection on low temperature compressors

Nomenclature

K	F	D	V	030	M	4S	G	A
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage	Vintage ²
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	A or B

* 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.



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



Discus Compressor // Single Compressor // Configurable Base Models

"-" Not Available

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				208-230/3	460/3	208-230/3	460/3	
MEDIUM TEMP.	15	K*DV015M4S*A	3DS3R17ME	72,413	73,599	71,977	73,201	2,248
	20	K*DV020M4S*A	4DBNR20ME	80,148	81,277	78,443	80,048	2,770
	25	K*DV025M4S*A	4DHN22ME	95,705	96,755	93,761	95,380	3,705
	30	K*DV030M4S*A	4DJNR28ME	111,862	113,083	105,805	107,117	3,842
	35	K*DV035M4S*A	6DHN35ME	126,693	127,416	122,017	122,350	4,051
	40	K*DV040M4S*A	6DJNR40ME	139,421	141,359	134,039	136,004	4,676
	50	K*DV050M4S*A	6DUNR49ME	-	168,756	-	160,266	4,830
LOW TEMP.	22	K*DV022L4S*A	4DJNF76KE	90,031	91,925	90,015	91,154	2,770
	27	K*DV027L4S*A	6DHNF93KE	104,214	105,046	102,195	104,038	3,705
	30	K*DV030L4S*A	6DJNF11ME	115,138	116,198	112,764	114,654	3,842
	40	K*DV040L4S*A	6DUNF13ME	-	144,684	-	142,321	4,676

Bitzer Compressor // Single Compressor // Configurable Base Models

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr 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	72,413	73,599	71,977	73,201	2,248
	20	K*BV020M4S*A	4JE-22	80,148	81,277	78,443	80,048	2,770
	25	K*BV025M4S*A	4HE-25	95,705	96,755	93,761	95,380	3,705
	30	K*BV030M4S*A	4GE-30	111,862	113,083	105,805	107,117	3,842
	35	K*BV035M4S*A	6HE-35	126,693	127,416	122,017	122,350	4,051
	40	K*BV040M4S*A	6GE-40	139,421	141,359	134,039	136,004	4,676
	50	K*BV050M4S*A	6FE-50	167,499	168,756	159,074	160,266	4,830
LOW TEMP.	22	K*BV022L4S*A	4GE-23	90,031	91,925	90,015	91,154	2,770
	27	K*BV027L4S*A	6HE-28	104,214	105,046	102,195	104,038	3,705
	30	K*BV030L4S*A	6GE-34	115,138	116,198	112,764	114,654	3,842
	40	K*BV040L4S*A	6FE-44	143,608	144,684	141,540	142,321	4,676

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 104 - 111.
- * Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

- Demand Cooling/Liquid injection required for non-404A refrigerants on low temp applications with Discus and Bitzer compressors, respectively.
- Head fan is required for certain low temp applications. Refer to product catalog for model specific information

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



Discus Compressor // Dual Compressor // Configurable Base Models

"-" Not Available

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				208-230/3	460/3	208-230/3	460/3	
MEDIUM TEMP.	30	K*DD030M4S*A	3DS3R17ME	144,831	147,200	143,951	146,402	4,496
	40	K*DD040M4S*A	4DBNR20ME	160,297	162,555	156,889	160,096	5,540
	50	K*DD050M4S*A	4DHRN22ME	191,412	193,511	187,523	190,766	7,410
	60	K*DD060M4S*A	4DJNR28ME	223,730	226,168	211,608	214,234	7,684
	70	K*DD070M4S*A	6DHRN35ME	253,385	254,836	244,034	244,703	8,102
	80	K*DD080M4S*A	6DJNR40ME	278,847	282,717	268,078	272,006	9,352
	100	K*DD100M4S*A	6DUNR49ME	-	337,513	-	320,533	9,660
LOW TEMP.	44	K*DD044L4S*A	4DJNF76KE	180,059	183,848	180,032	182,308	5,540
	54	K*DD054L4S*A	6DHNF93KE	208,425	210,089	204,391	208,077	7,410
	60	K*DD060L4S*A	6DJNF11ME	230,275	232,395	225,530	229,298	7,684
	80	K*DD080L4S*A	6DUNF13ME	-	289,371	-	284,642	9,352

Bitzer Compressor // Dual Compressor // Configurable Base Models

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr 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	144,831	147,200	143,951	146,402	4,496
	40	K*BD040M4S*A	4JE-22	160,297	162,555	156,889	160,096	5,540
	50	K*BD050M4S*A	4HE-25	191,412	193,511	187,523	190,766	7,410
	60	K*BD060M4S*A	4GE-30	223,730	226,168	211,608	214,234	7,684
	70	K*BD070M4S*A	6HE-35	253,385	254,836	244,034	244,703	8,102
	80	K*BD080M4S*A	6GE-40	278,847	282,717	268,078	272,006	9,352
	100	K*BD100M4S*A	6FE-50	335,001	337,513	318,146	320,533	9,660
LOW TEMP.	44	K*BD044L4S*A	4GE-23	180,059	183,848	180,032	182,308	5,540
	54	K*BD054L4S*A	6HE-28	208,425	210,089	204,391	208,077	7,410
	60	K*BD060L4S*A	6GE-34	230,275	232,395	225,530	229,298	7,684
	80	K*BD080L4S*A	6FE-44	287,217	289,371	282,522	284,642	9,352

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 104 - 111.
- * Represents Flooded (F) or Non-Flooded (B) & Voltage 208-230/3/60 (E) or 460/3/60 (G)

- Demand Cooling/Liquid injection required for non-404A refrigerants on low temp applications with Discus and Bitzer compressors, respectively.
- Head fan is required for certain low temp applications. Refer to product catalog for model specific information

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



Discus Compressor // Parallel Piped Compressor // Configurable Base Models

"-" Not Available

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				208-230/3	460/3	208-230/3	460/3	
MEDIUM TEMP.	50	K*DP050M4S*A	4DHNR22ME	215,088	216,926	210,626	213,805	4,830
	60	K*DP060M4S*A	4DJNR28ME	245,402	247,631	231,345	233,837	7,684
	70	K*DP070M4S*A	6DHNR35ME	275,916	277,156	265,346	265,679	8,102
	80	K*DP080M4S*A	6DJNR40ME	299,267	303,933	287,247	291,965	9,352
	100	K*DP100M4S*A	6DUNR49ME	-	374,639	-	354,794	9,660
LOW TEMP.	44	K*DP044L4S*A	4DJNF76KE	204,249	208,001	204,219	206,243	4,676
	54	K*DP054L4S*A	6DHNF93KE	231,059	232,431	226,498	230,185	4,830
	60	K*DP060L4S*A	6DJNF11ME	251,472	253,358	246,178	249,935	7,684
	80	K*DP080L4S*A	6DUNF13ME	-	321,198	-	315,865	9,352

Bitzer Compressor // Parallel Piped Compressor // Configurable Base Models

	Nom. H.P.	Model #	Comp. Model # (1 per Unit)	FLOODED		NON-FLOODED		4 Yr 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	215,088	216,926	210,626	213,805	4,830
	60	K*BP060M4S*A	4GE-30	245,402	247,631	231,345	233,837	7,684
	70	K*BP070M4S*A	6HE-35	275,916	277,156	265,346	265,679	8,102
	80	K*BP080M4S*A	6GE-40	299,267	303,933	287,247	291,965	9,352
	100	K*BP100M4S*A	6FE-50	371,850	374,639	352,150	354,794	9,660
LOW TEMP.	44	K*BP044L4S*A	4GE-23	204,249	208,001	204,219	206,243	4,676
	54	K*BP054L4S*A	6HE-28	231,059	232,431	226,498	230,185	4,830
	60	K*BP060L4S*A	6GE-34	251,472	253,358	246,178	249,935	7,684
	80	K*BP080L4S*A	6FE-44	371,850	321,198	313,511	315,865	9,352

• Factory Mounted Options & Shipped-Loose Accessories are found on pages 104 - 111.

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

• Demand Cooling/Liquid injection required for non-404A refrigerants on low temp applications with Discus and Bitzer compressors, respectively.

• Head fan is required for certain low temp applications. Refer to product catalog for model specific information

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	2,856
	Compressor Unloading with Pressure Control for 2 Cycle Bank	035M & 045M	4,783
	Compressor Unloading; Moduload	DV015M	7,046
	Head Cooling Fan	All Models	2,972
	Liquid Injection / Demand Cooling	022L - 040L	6,527
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	959
	Anti-Short Cycle Timer	All Models	828
	Condenser Fan Breaker	015M -030M; 022L - 040L	1,249
		035M -050M	1,899
	Control Circuit Breaker	All Models	407
	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	2,528
		Models with 61A < MOPD < 101A	3,744
		Models with 101A < MOPD < 201A	6,414
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,232
		Models with 101A < MOPD < 201A	5,243
		Models with MCA < 59A	2,276
	Thru-the-door Non-Fused Disconnect	Models with 59A < MCA < 99A	3,304
		Models with 99A < MCA < 199A	5,463
	Phase-Loss Monitor - 250A	230 V & 460 V	1,598
	Phase-Loss Monitor - ICM450	230 V	2,331
		460 V	1,657

QV-Series Single Compressor Options continued on next page.

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	5,612
		020M - 040M; 022L - 030L	7,068
		050M & 040L	14,028
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,521
	Heat Reclaim Valve	All Models	5,833
	Heated & Insulated Receiver	All Models	4,438
	Hot Gas Bypass Tee & Ball Valve	All Models	1,368
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	7,930
	Liquid-line Filter Isolation Valve (single valve)	All Models	789
	Liquid Line Solenoid Valve (shipped loose)	015M - 025M; 022L - 040L	981
		030M - 035M	1,254
		040M - 050M	1,895
	Oil Separator with Check Valve	015 - 030	2,719
		035 - 050	4,591
	Oil Separator with Check Valve & Oil Return Service Kit	015 - 030	6,020
		035 - 050	8,524
	Oversized Receiver	All Models	1,889
	Receiver Level Gauge	All Models	2,343
	Suction Accumulator - Standard	015	4,230
		020-050	4,892
	Suction Accumulator - Heat Exchanger	015	5,243
		020-050	8,116
	Suction-line Filter - Replaceable Core	015M	2,774
		020M - 040M; 022L - 030L	2,896
		050M & 040L	3,621
	Suction-line Filter Isolation Valves	015M	1,294
		020M - 040M; 022L - 030L	2,084
		050M & 040L	3,625
	Suction-line Insulation	All Models	2,294

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	5,712
	Compressor Unloading with Pressure Control for 2 Cycle Bank	D070M & D080M	9,566
	Compressor Unloading: Moduload	DD030M	14,092
	Head Cooling Fan	All Models	5,944
	Liquid Injection / Demand Cooling	D044L - D080L	13,054
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	1,918
	Anti-Short Cycle Timer	All Models	1,656
	Condenser Fan Breaker	D030M -D060M; D044L - D080L	2,498
		D070M -D100M	3,798
	Control Circuit Breaker	All Models	407
	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	2,528
		Models with 61A < MOPD < 101A	3,744
		Models with 101A < MOPD < 201A	6,414
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,232
		Models with 101A < MOPD < 201A	5,243
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,276
		Models with 59A < MCA > 99A	3,304
		Models with 99A < MCA < 199A	5,463
	Phase-Loss Monitor - 250A	230 V & 460 V	3,196
	Phase-Loss Monitor - ICM450	460 V	3,314

QV-Series Dual Compressor Options continued on next page.

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	11,224
		D040M - D080M; D044L - D060L	14,136
		D100M & D080L	28,056
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,042
	Heat Reclaim Valve	All Models	11,666
	Heated & Insulated Receiver	All Models	8,876
	Hot Gas Bypass Tee & Ball Valve	All Models	2,736
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	15,860
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	1,578
	Liquid Line Solenoid Valve (shipped loose)	030M - 050M; 044L - 080L	1,962
		060M - 070M	2,508
		080M - 100M	3,790
	Oil Separator with Check Valve	D030 - D060	5,438
		D070 - D100	9,182
	Oil Separator with Check Valve & Oil Return Service Kit	D030 - D060	12,040
		D070 - D100	17,048
	Oversized Receiver	All Models	3,778
	Receiver Level Gauge	All Models	4,686
	Suction Accumulator - Standard	D030	8,460
		D040-D100	9,784
	Suction Accumulator - Heat Exchanger	D030	10,486
		D040-D100	16,232
	Suction-line Filter - Replaceable Core	D030M	5,548
		D040M - D080M; D044L - D060L	5,792
		D100M & D080L	7,242
	Suction-line Filter Isolation Valves	D030M	2,588
		D040M - D080M; D044L - D060L	4,168
		D100M & D080L	7,250
	Suction-line Insulation	All Models	4,588

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	5,712
	Compressor Unloading with Pressure Control for 2 Cycle Bank	P070M & P080M	9,566
	Head Cooling Fan	All Models	5,944
	Liquid Injection / Demand Cooling	P044L - P080L	13,054
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	959
	Anti-Short Cycle Timer	All Models	828
	Condenser Fan Breaker	P050M -P060M; P044L - P080L	1,249
		P070M -P100M	1,899
	Control Circuit Breaker	All Models	407
	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	2,528
		Models with 61A < MOPD < 101A	3,744
		Models with 101A < MOPD < 201A	6,414
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,232
		Models with 101A < MOPD < 201A	5,243
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,276
		Models with 59A < MCA > 99A	3,304
		Models with 99A < MCA < 199A	5,463
	Phase-Loss Monitor - 250A	230 V & 460 V	1,598
	Phase-Loss Monitor - ICM450	460 V	1,657

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

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



Factory Installed Options // Parallel-Piped Compressor // Refrigeration Options

Option Description <i>(all options are factory mounted unless otherwise noted)</i>		Option Available On:	List Price Adder (\$US)
REFRIGERATION OPTIONS	Crankcase Pressure Regulator Valves	P050M-P60M	14,137
		P070M-P100M; P044L - P080L	16,503
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,042
	Heat Reclaim Valve	All Models	5,833
	Heated & Insulated Receiver	All Models	4,438
	Hot Gas Bypass Tee & Ball Valve	All Models	1,368
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	7,930
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	789
		050M - 060M	7,858
	Liquid Line Solenoid Valve (shipped loose)	070M - 100M	3,205
		044L - 080L	1,228
	Oversized Receiver	All Models	1,889
	Receiver Level Gauge	All Models	2,343
	Suction Accumulator - Standard	P050M-P60M	5,871
		P070M-P100M; P044L - P080L	6,389
	Suction Accumulator - Heat Exchanger	P050M-P60M	8,116
		P070M-P100M; P044L - P080L	8,968
	Suction-line Filter - Replaceable Core	P050M-P60M	2,592
		P070M-P100M; P044L - P080L	2,896
	Suction-line Filter Isolation Valves	P050M-P60M	3,621
		P070M-P100M; P044L - P080L	5,724
	Suction-line Insulation	All Models	4,588

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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

NOTES:

- 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	2,642						
DLA30 ¹	2,746						
DLA35 ¹	3,091	DLB35 ¹	3,944	DLC35	5,388		
DLA40 ¹	3,091	DLB40 ¹	3,944	DLC40	5,388		
DLA48 ¹	3,091	DLB48 ¹	3,944	DLC48	5,388		
		DLB60 ^{1 2 4}	4,101	DLC60 ¹	5,388	DLD60	6,372
		DLB96 ^{1 2 4}	4,967	DLC96 ¹	5,714	DLD96	6,423
				DLC144 ¹	7,786	DLD144 ^{3 5}	7,838
						DLD192 ^{3 5}	8,238

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	2,642		
DLA30 ¹	2,746		
DLA35 ¹	3,091	DLB35 ¹	3,944
DLA40 ¹	3,091	DLB40 ¹	3,944
DLA48 ¹	3,091	DLB48 ¹	3,944
		DLB60 ^{1 2 4}	4,101
		DLB96 ^{1 2 4}	4,967

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

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

- 1 Defrost Kit Available with Pressure Prop Kit for Large Evaporators (Special Kit Code: PP)
- 2 Defrost Kit Available for Evaporator with Multiple Heater Feeds (Special Kit Code: -1)
- 3 Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds (Special Kit Code: -2)
- 4 Defrost Kit Available for Evaporator with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -1PP)
- 5 Defrost Kit Available for 2 Evaporators with Multiple Heater Feeds & Pressure Prop Kit (Special Kit Code: -2PP)

QV-Series Defrost Kit Options continued on next page.

AIR-COOLED CONDENSING UNITS

QV-Series - 15-100 HP



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	1,458
TMR-EF-30A	30	1,545

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

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	186	1,394						
30	248	2,169						
35	248	2,169						
40	248	2,169						
48	248	2,169						
60			346	4,327	529	4,569	570	4,784
96			443	4,357	605	5,822	731	6,001
144					765	6,020	1,000	7,227
192							1,007	7,303

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

AIR-COOLED CONDENSING UNITS

Low Charge - 20-30 HP



Standard Features

- ▶ Scroll compressors
- ▶ 900 RPM Variable Speed EC Condenser Fan Motors
- ▶ Available as dual compressor configurations from 20 to 30 HP
- ▶ All models are non-flooded and include electronic fan cycling control
- ▶ Pre-paint 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
- ▶ Mechanically formed pre-bent tubing reduces potential leaks
- ▶ Enhanced tube design
- ▶ Separate power and control electrical panels
- ▶ Swept wing fan/Venturi improves airflow and sound
- ▶ Crankcase heater
- ▶ Pump down switch
- ▶ 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
- ▶ Color-coded high and low pressure hoses
- ▶ Thru-the-door non-fused disconnect switch
- ▶ Suction line isolation valve
- ▶ Liquid line isolation valve with sight glass
- ▶ Liquid line injection on low temp. models
- ▶ Sealed liquid line filter
- ▶ Single point alarm with liquid line solenoid lockout
- ▶ Control circuit and condenser fan fusing
- ▶ Condenser fan contactors
- ▶ UL and cUL listed for outdoor use

Options

- ▶ Air defrost timer or electric defrost components
- ▶ Electric defrost kits available for up to 4 evaporators
- ▶ Coil coating
- ▶ Heated and insulated receiver
- ▶ Replaceable core liquid line filter
- ▶ Replaceable core suction line filter
- ▶ Sealed suction line filter

Nomenclature

<u>K</u>	<u>B</u>	<u>O</u>	<u>D</u>	<u>20</u>	<u>M</u>	<u>4S</u>	<u>E</u>	<u>A</u>
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage	Vintage
K - Kramer	B - Non-Flooded	O - Scroll	D - Dual Piped		L - Low M - Medium	4S - R448A, R449A/B	E - 208-230/3/60 G - 460/3/60	A

• 50 Hz available. Contact Factory for additional information.



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

AIR-COOLED CONDENSING UNITS

Low Charge - 20-30 HP



Scroll Compressor // Dual Compressor // Configurable Base Models

	Nom. H.P.	Model #	Comp. Model # (2 per Unit)	NON-FLOODED		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				208-230/3	460/3	
MED. TEMP.	20	KBOD020M4S*A	ZB76K5E	151,226	153,904	1,908
	26	KBOD026M4S*A	ZB95K5E	156,087	158,846	2,272
	30	KBOD030M4S*A	ZB114K5E	174,593	177,632	2,290
LOW TEMP.	20	KBOD020L4S*A	ZF34K5E	166,759	172,249	1,908
	26	KBOD026L4S*A	ZF41K5E	179,681	185,559	2,272
	30	KBOD030L4S*A	ZF49K5E	194,356	196,820	2,290

• Factory Mounted Options & Shipped-Loose Accessories are found below and the next page.

• * Represents Voltage 208-230/3/60 (E) or 460/3/60 (G)

Factory Installed Options // Dual Compressor // Compressor & Electrical Options

Option Description <i>(all options are factory mounted unless otherwise noted)</i>	List Price Adder (\$US)
Liquid Line Filter (Replaceable Core)	7,160
Suction Line Filter (Sealed)	4,244
Suction Line Filter (Replaceable Core)	5,697
Suction Accumulator	8,331
Oil Separator	5,780
Receiver	19,586
Heated & Insulated Receiver (Must Add Receiver Option)	4,161
Electronic Oil Float	7,575
Condenser Coatings	Contact Factory

AIR-COOLED CONDENSING UNITS

Low Charge - 20-30 HP



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

NOTES:

- 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 // Dual Compressor Models

Defrost Kits	Available Controls	Dual Price (\$US)	Single Price (\$US)	Defrost Kits	Available Controls	Dual Price (\$US)	Single Price (\$US)
TMR ONLY	DUAL/SINGLE	1,918	959	DLB35	DUAL/SINGLE	7,887	3,944
DLA24	DUAL ONLY	5,283		DLB35PP	DUAL/SINGLE	7,887	3,944
DLA24PP	DUAL ONLY	5,283		DLB40	DUAL/SINGLE	7,887	3,944
DLA30	DUAL ONLY	5,491		DLB40PP	DUAL/SINGLE	7,887	3,944
DLA30PP	DUAL ONLY	5,491		DLB48	DUAL/SINGLE	7,887	3,944
DLA35	DUAL ONLY	6,182		DLB48PP	DUAL/SINGLE	7,887	3,944
DLA35PP	DUAL ONLY	6,182		DLB60	DUAL/SINGLE	8,201	4,101
DLA40	DUAL ONLY	6,182		DLB60PP	DUAL/SINGLE	8,201	4,101
DLA40PP	DUAL ONLY	6,182		DLB96	DUAL/SINGLE	9,934	4,967
DLA48	DUAL ONLY	6,182		DLB96PP	DUAL/SINGLE	9,934	4,967
DLA48PP	DUAL ONLY	6,182		DLD144-2	SINGLE ONLY		7,838
DLB60-1	DUAL ONLY	8,201		DLD144-2PP	SINGLE ONLY		7,838
DLB60-1PP	DUAL ONLY	8,201		DLD192-2	SINGLE ONLY		8,238
DLB96-1	DUAL ONLY	9,934		DLD192-2PP	SINGLE ONLY		8,238
DLB96-1PP	DUAL ONLY	9,934					

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

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

Water-Cooled Condensing Unit

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

Options

- ▶ Air or electric defrost provisions
- ▶ Cupronickel heat exchanger and water piping
- ▶ Crankcase heater
- ▶ Water regulating valve
- ▶ Replaceable core liquid filter
- ▶ Replaceable core suction filter
- ▶ Two-tier stacking rack

Nomenclature

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

50 Hz available. Contact Factory for additional information.

WATER-COOLED CONDENSING UNITS

Next-Gen WC-Series - 1/2 - 6 HP



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

"-" Not Available

	Frame Size	Nom. H.P.	Compressor Model #	Model #	LIST PRICE (\$US)			4 Yr Compressor Protection Plan (Net Price Adder \$US)
					208-230/1/60	208-230/3/60	460/3/60	
EXTENDED MED. TEMP	FW1	1/2	RST45C1E	KWH055E4S*A	7,918	-	-	205
	FW1	1/2	RST55C1E	KWH080E4S*A	8,082	-	-	205
	FW1	3/4	RST64C1E	KWH090E4S*A	8,326	-	-	205
	FW1	3/4	RST70C1E	KWH100E4S*A	8,992	9,297	-	205
	FW2	1	RST97C1E	KWH125E4S*A	9,637	9,561	-	225

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

"-" Not Available

	Frame Size	Nom. H.P.	Compressor Model #	Model #	LIST PRICE (\$US)			4 Yr Compressor Protection Plan (Net Price Adder \$US)
					208-230/1/60	208-230/3/60	460/3/60	
MED TEMP	FW1	1/2	ZB06KAE	KWO060M4S*A	14,143	14,165	-	381
	FW1	1/2	ZB07KAE	KWO080M4S*A	14,283	14,331	-	381
	FW1	1	ZB08KAE	KWO100M4S*A	14,423	14,517	-	381
EXTENDED MEDIUM TEMPERATURE	FW1	1-1/3	ZS09KAE	KWO130E4S*A	14,581	14,727	15,268	381
	FW2	1-1/2	ZS11KAE	KWO150E4S*A	15,599	15,749	16,286	381
	FW2	1-3/4	ZS13KAE	KWO180E4S*A	15,971	16,117	16,656	381
	FW3	2	ZS15KAE	KWO200E4S*A	16,248	16,394	16,933	381
	FW3	2-1/2	ZS19KAE	KWO250E4S*A	16,435	16,616	17,254	381
	FW4	3	ZS21KAE	KWO300E4S*A	16,684	16,897	17,636	500
	FW4	3-1/2	ZS26KAE	KWO350E4S*A	17,725	17,954	18,480	500
	FW4	4	ZS29KAE	KWO400E4S*A	18,290	18,544	19,054	518
	FW4	4-1/2	ZS33KAE	KWO450E4S*A	18,059	18,314	18,980	518
	FW4	6	ZS38K4E	KWO500E4S*A	18,962	19,223	20,043	536
	FW4	6-1/2	ZS45K4E	KWO600E4S*A	-	22,186	22,543	536

See notes on next page

WATER-COOLED CONDENSING UNITS

Next-Gen WC-Series - 1/2 - 6 HP



Water-Cooled // Scroll Compressor // Configurable Base Models (continued)

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 #	Model #	LIST PRICE (\$US)			4 Yr Compressor Protection Plan (Net Price Adder \$US)
					208-230/1/60	208-230/3/60	460/3/60	
LOW TEMPERATURE	FW2	1	ZF03KAE	KWO100L4S*A	14,819	15,636	-	381
	FW2	1-1/3	ZF04KAE	KWO130L4S*A	15,183	15,909	-	381
	FW2	1-1/2	ZF05KAE	KWO160L4S*A	15,654	16,282	-	381
	FW2	2	ZF07KAE	KWO230L4S*A	16,538	16,758	17,283	381
	FW3	2-1/2	ZF08K4E	KWO250L4S*A	17,109	17,350	17,535	381
	FW3	3	ZF09K4E	KWO300L4S*A	17,524	17,783	19,913	500
	FW3	3-1/2	ZF11K4E	KWO350L4S*A	18,318	18,579	19,015	500
	FW4	4	ZF13K4E	KWO400L4S*A	19,107	19,353	19,792	518
	FW4	5	ZF15K4E	KWO500L4S*A	19,353	19,594	20,048	536
	FW4	6	ZF18K4E	KWO600L4S*A	-	22,090	23,289	536

- Factory Mounted Options & Shipped-Loose Accessories are found on Page 118
- "*" represents Voltage. "D" for 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



Options

Option Description <i>(all options are factory mounted unless otherwise noted)</i>	H.P Range/Cabinet	List Price Adder (\$US)
Water Regulating Valve (shipped loose)	0.5 - 2.0	1,012
	2.5 - 3.5	1,098
	4.0 - 4.5	1,233
	5.0 - 6.5	1,816
Cupronickel Water Regulating Valve	ALL	Contact Factory
External Fused Disconnect (Mounted)	FW1 - FW2	906
	FW3 - FW4	1,670
External Fused Disconnect (Loose)	FW4	1,530
Liquid Line with Premium Components: Replaceable Core Filter/Drier	FW4	846
Suction Line Components: Sealed Filter	FW1	549
	FW2 - FW4	654
Suction Line Components: Replaceable Core Filter	FW4	1,925
Suction Accumulator	FW1	847
	FW2 - FW4	1,307
Compressor Pump-down Switch	ALL	541
Phase Loss Monitor*	ALL	1,880
Cupronickel Heat Exchanger	ALL	Contact Factory
Two-Tiered Stacking Rack (shipped loose)	ALL	Contact Factory
Over-Sized Receiver	FW1	702
	FW2	837
	FW3	2,000
	FW4	2,052
Heated & Insulated Receiver (temperature controlled w/low pressure bypass timer)	ALL	1,146
Thru The Door - Non - Fused - Disconnect Switch	FW1 - FW2	806
	FW3 - FW4	1,071
Remove Standard Defrost Kit (Low Temp only)	ALL	(948)
Remove Standard Air Defrost Timer (Medium Temp only)	ALL	(818)
Oil Separator	FW4	2,079
Substitute Standard Air Defrost Timer For Standard Defrost Kit (ED5-ED11)	ALL	168

For Defrost Kit Options, please see pages 83-85.

* Only available on units that are 3 Phase.

Air-Cooled Condensers

Available with 1 to 14 fans in single and double fan width models
with vertical or horizontal air flow

MODELS



DOE AWEF values for specific models in a given application
can be found in the Product Brochure on our website.

LARGE AIR-COOLED CONDENSERS

Quantum Air™



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

Options

- ▶ Flooded head pressure control
- ▶ Fan cycling head pressure control
- ▶ Sub-cooling circuit
- ▶ Multi-circuited coils
- ▶ Wide selection of fin coatings and materials
- ▶ Multiple control panel locations
- ▶ Fixed box style legs

Nomenclature

K	D	D	087	G	D	3	A
Brand	Series	Width	MBTUH	Voltage	Motor	# of Fans	Vintage
K - Kramer	D - Condenser	S - Single Wide D - Double Wide		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

LARGE AIR-COOLED CONDENSERS

Quantum Air™



Models with 1140 RPM, 1.5 HP Motors

	Model #	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^B1A	11,689	12,387	13,085	13,783	1 x 1
	KDS006^B1A	14,880	15,578	16,276	16,974	1 x 1
	KDS007^B1A	16,620	17,318	18,016	18,714	1 x 1
	KDS012^B2A	24,449	25,845	27,241	28,637	1 x 2
	KDS015^B2A	33,653	35,049	36,445	37,841	1 x 2
	KDS018^B2A	39,876	41,272	42,668	44,064	1 x 2
	KDS022^B3A	49,210	51,304	53,398	55,492	1 x 3
	KDS027^B3A	57,296	59,390	61,484	63,578	1 x 3
	KDS030^B4A	68,753	71,545	74,337	77,129	1 x 4
	KDS036^B4A	77,773	80,565	83,357	86,149	1 x 4
	KDS039^B5A	85,779	89,269	92,759	96,249	1 x 5
	KDS047^B5A	99,801	103,291	106,781	110,271	1 x 5
	KDS056^B6A	119,433	123,621	127,809	131,997	1 x 6
	KDS065^B7A	140,336	145,222	150,108	154,994	1 x 7
DOUBLE FAN WIDTH	KDD022^B2A	50,489	53,281	56,073	58,865	2 x 2
	KDD030^B2A	67,186	69,978	72,770	75,562	2 x 2
	KDD036^B2A	78,238	81,030	83,822	86,614	2 x 2
	KDD045^B3A	100,496	104,684	108,872	113,060	2 x 3
	KDD054^B3A	117,577	121,765	125,953	130,141	2 x 3
	KDD059^B4A	134,554	140,138	145,722	151,306	2 x 4
	KDD072^B4A	155,307	160,891	166,475	172,059	2 x 4
	KDD078^B5A	171,559	178,539	185,519	192,499	2 x 5
	KDD094^B5A	199,903	206,883	213,863	220,843	2 x 5
	KDD113^B6A	238,836	247,212	255,588	263,964	2 x 6
	KDD131^B7A	281,358	291,130	300,902	310,674	2 x 7

• Factory Mounted Options & Shipped-Loose Accessories are found on pages 126-129.

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

LARGE AIR-COOLED CONDENSERS

Quantum Air™



Models with 850 RPM, 1.5 HP Motors

	Model #	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^D1A	11,570	12,268	12,966	13,664	1 x 1
	KDS005^D1A	14,788	15,486	16,184	16,882	1 x 1
	KDS007^D1A	16,479	17,177	17,875	18,573	1 x 1
	KDS010^D2A	25,001	26,397	27,793	29,189	1 x 2
	KDS014^D2A	33,550	34,946	36,342	37,738	1 x 2
	KDS015^D2A	37,204	38,600	39,996	41,392	1 x 2
	KDS021^D3A	49,509	51,603	53,697	55,791	1 x 3
	KDS024^D3A	56,051	58,145	60,239	62,333	1 x 3
	KDS028^D4A	67,237	70,029	72,821	75,613	1 x 4
	KDS032^D4A	75,398	78,190	80,982	83,774	1 x 4
	KDS035^D5A	82,213	85,703	89,193	92,683	1 x 5
	KDS043^D5A	98,692	102,182	105,672	109,162	1 x 5
	KDS052^D6A	118,423	122,611	126,799	130,987	1 x 6
	KDS060^D7A	138,848	143,734	148,620	153,506	1 x 7
DOUBLE FAN WIDTH	KDD019^D2A	48,642	51,434	54,226	57,018	2 x 2
	KDD028^D2A	66,989	69,781	72,573	75,365	2 x 2
	KDD031^D2A	73,158	75,950	78,742	81,534	2 x 2
	KDD041^D3A	99,637	103,825	108,013	112,201	2 x 3
	KDD048^D3A	113,128	117,316	121,504	125,692	2 x 3
	KDD055^D4A	134,623	140,207	145,791	151,375	2 x 4
	KDD065^D4A	151,114	156,698	162,282	167,866	2 x 4
	KDD069^D5A	164,359	171,339	178,319	185,299	2 x 5
	KDD086^D5A	197,732	204,712	211,692	218,672	2 x 5
	KDD103^D6A	236,964	245,340	253,716	262,092	2 x 6
	KDD121^D7A	277,733	287,505	297,277	307,049	2 x 7

• Factory Mounted Options & Shipped-Loose Accessories are found on pages 126-129.

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

LARGE AIR-COOLED CONDENSERS

Quantum Air™



Models with 850 RPM, 1.0 HP Motors

	Model #	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^L1A	10,813	11,511	12,209	12,907	1 x 1
	KDS006^L1A	13,998	14,696	15,394	16,092	1 x 1
	KDS008^L1A	16,732	17,430	18,128	18,826	1 x 1
	KDS010^L2A	23,482	24,878	26,274	27,670	1 x 2
	KDS012^L2A	29,625	31,021	32,417	33,813	1 x 2
	KDS015^L2A	35,816	37,212	38,608	40,004	1 x 2
	KDS019^L3A	46,798	48,892	50,986	53,080	1 x 3
	KDS023^L3A	53,561	55,655	57,749	59,843	1 x 3
	KDS026^L4A	64,794	67,586	70,378	73,170	1 x 4
	KDS030^L4A	73,488	76,280	79,072	81,864	1 x 4
	KDS032^L5A	78,915	82,405	85,895	89,385	1 x 5
	KDS040^L5A	97,199	100,689	104,179	107,669	1 x 5
	KDS048^L6A	117,277	121,465	125,653	129,841	1 x 6
	KDS056^L7A	137,236	142,122	147,008	151,894	1 x 7
DOUBLE FAN WIDTH	KDD017^L2A	45,242	48,034	50,826	53,618	2 x 2
	KDD026^L2A	64,768	67,560	70,352	73,144	2 x 2
	KDD030^L2A	73,518	76,310	79,102	81,894	2 x 2
	KDD038^L3A	97,936	102,124	106,312	110,500	2 x 3
	KDD046^L3A	114,275	118,463	122,651	126,839	2 x 3
	KDD051^L4A	131,511	137,095	142,679	148,263	2 x 4
	KDD060^L4A	149,784	155,368	160,952	166,536	2 x 4
	KDD063^L5A	159,635	166,615	173,595	180,575	2 x 5
	KDD080^L5A	197,002	203,982	210,962	217,942	2 x 5
	KDD097^L6A	236,603	244,979	253,355	261,731	2 x 6
	KDD113^L7A	277,310	287,082	296,854	306,626	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 126-129. .
- ^ 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.

LARGE AIR-COOLED CONDENSERS

Quantum Air™



Models with 550 RPM, 1/3 HP Motors

	Model #	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^E1A	12,484	13,182	13,880	14,578	1 x 1
	KDS005^E1A	14,699	15,397	16,095	16,793	1 x 1
	KDS006^E1A	16,560	17,258	17,956	18,654	1 x 1
	KDS008^E2A	24,608	26,004	27,400	28,796	1 x 2
	KDS011^E2A	32,438	33,834	35,230	36,626	1 x 2
	KDS012^E2A	35,872	37,268	38,664	40,060	1 x 2
	KDS016^E3A	49,644	51,738	53,832	55,926	1 x 3
	KDS018^E3A	54,406	56,500	58,594	60,688	1 x 3
	KDS021^E4A	68,048	70,840	73,632	76,424	1 x 4
	KDS025^E4A	76,297	79,089	81,881	84,673	1 x 4
	KDS028^E5A	86,453	89,943	93,433	96,923	1 x 5
	KDS032^E5A	95,819	99,309	102,799	106,289	1 x 5
	KDS040^E6A	121,917	126,105	130,293	134,481	1 x 6
	KDS046^E7A	142,535	147,421	152,307	157,193	1 x 7
DOUBLE FAN WIDTH	KDD016^E2A	52,758	55,550	58,342	61,134	2 x 2
	KDD021^E2A	68,048	70,840	73,632	76,424	2 x 2
	KDD025^E2A	75,620	78,412	81,204	83,996	2 x 2
	KDD032^E3A	104,420	108,608	112,796	116,984	2 x 3
	KDD037^E3A	114,362	118,550	122,738	126,926	2 x 3
	KDD043^E4A	139,706	145,290	150,874	156,458	2 x 4
	KDD050^E4A	155,642	161,226	166,810	172,394	2 x 4
	KDD055^E5A	178,226	185,206	192,186	199,166	2 x 5
	KDD063^E5A	195,666	202,646	209,626	216,606	2 x 5
	KDD080^E6A	248,110	256,486	264,862	273,238	2 x 6
	KDD093^E7A	288,505	298,277	308,049	317,821	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 126-129.
- ^ 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.

LARGE AIR-COOLED CONDENSERS

Quantum Air™



Models with 1200 RPM, Variable Speed EC Motors

	Model #	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS005^K1A	21,206	21,904	22,602	23,300	1 x 1
	KDS006^K1A	24,400	25,098	25,796	26,494	1 x 1
	KDS008^K1A	26,140	26,838	27,536	28,234	1 x 1
	KDS013^K2A	43,486	44,882	46,278	47,674	1 x 2
	KDS016^K2A	52,688	54,084	55,480	56,876	1 x 2
	KDS019^K2A	58,915	60,311	61,707	63,103	1 x 2
	KDS024^K3A	77,768	79,862	81,956	84,050	1 x 3
	KDS028^K3A	85,850	87,944	90,038	92,132	1 x 3
	KDS032^K4A	106,828	109,620	112,412	115,204	1 x 4
	KDS038^K4A	115,848	118,640	121,432	124,224	1 x 4
	KDS041^K5A	133,372	136,862	140,352	143,842	1 x 5
	KDS049^K5A	147,394	150,884	154,374	157,864	1 x 5
	KDS059^K6A	176,547	180,735	184,923	189,111	1 x 6
	KDS069^K7A	206,967	211,853	216,739	221,625	1 x 7
DOUBLE FAN WIDTH	KDD023^K2A	88,569	91,361	94,153	96,945	2 x 2
	KDD032^K2A	105,261	108,053	110,845	113,637	2 x 2
	KDD038^K2A	116,315	119,107	121,899	124,691	2 x 2
	KDD047^K3A	157,606	161,794	165,982	170,170	2 x 3
	KDD057^K3A	174,690	178,878	183,066	187,254	2 x 3
	KDD063^K4A	210,705	216,289	221,873	227,457	2 x 4
	KDD075^K4A	231,456	237,040	242,624	248,208	2 x 4
	KDD082^K5A	266,749	273,729	280,709	287,689	2 x 5
	KDD099^K5A	295,090	302,070	309,050	316,030	2 x 5
	KDD118^K6A	353,060	361,436	369,812	378,188	2 x 6
	KDD138^K7A	414,636	424,408	434,180	443,952	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 126-129.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.

LARGE AIR-COOLED CONDENSERS

Quantum Air™ Options



"-" Not Available	FAN CONFIGURATION						
	1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7
DISCONNECT OPTIONS							
Through the door non-fused disconnect	STANDARD						
Through the door fused disconnect	764	764	1,293	1,470	1,612	1,764	1,909
Main Power Circuit Breaker	1,567	1,567	1,941	1,941	1,941	1,941	1,941
FAN CYCLING OPTIONS - REQUIRES CONTACTOR OPTION							
Ambient fan cycling†	-	1,558	2,123	2,830	3,533	4,240	4,948
Mechanical Pressure fan cycling (per circuit) w/o Header†	-	2,343	2,566	3,416	4,273	5,128	5,977
Mechanical Pressure fan cycling (per circuit) w/ Header†	-	2,986	3,844	4,702	5,563	6,421	7,296
Electronic Pressure fan cycling (per circuit) w/o Header†	-	2,430	3,046	5,059	7,074	9,086	10,674
Electronic Pressure fan cycling (per circuit) w/ Header†	-	3,452	5,463	7,474	9,495	11,061	12,997
	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	1,470	1,764	2,276	2,793	3,311	3,825	
Main Power Circuit Breaker	1,941	1,941	2,078	2,078	2,078	2,078	
FAN CYCLING OPTIONS - REQUIRES CONTACTOR OPTION							
Ambient fan cycling†	1,558	2,123	2,830	3,533	4,240	4,948	
Mechanical Pressure fan cycling (per circuit) w/o Header†	2,343	2,566	3,416	4,273	5,128	5,977	
Mechanical Pressure fan cycling (per circuit) w/ Header†	2,986	3,844	4,702	5,563	6,421	7,296	
Electronic Pressure fan cycling (per circuit) w/o Header†	2,430	3,046	5,059	7,074	9,086	10,674	
Electronic Pressure fan cycling (per circuit) w/ Header†	3,452	5,463	7,474	9,495	11,061	12,997	
Note: Header fan is continuous run and not cycled.							
	ALL						
ELECTRONIC HEADER END FAN SPEED CONTROL - REQ. CONTACTOR & FAN CYCLE ON 1X2 AND LARGER							
Variable speed header end fan (1 or 2 Circuit) Electronic control - pressure†				Contact Factory			

Notes and references for Options on page 129.

Continued on next page...

LARGE AIR-COOLED CONDENSERS

Quantum Air™ Options



FAN CONFIGURATION

1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7
-------	-------	-------	-------	-------	-------	-------

DISCONNECT OPTIONS // Control Boards

Items with this mark also ‡ require the contactor option

CPC relay board + xfmr (1x1 thru 1x7 config) ‡	5,028
CPC relay board condenser split 50/50 (1 board + relay)	5,232
CPC analog speed control board and transformer	5,263
DANFOSS relay board + xfmr (1x1 thru 1x7 config) ‡	5,046
DANFOSS relay board condenser split 50/50 (relay) ‡	7,412
DANFOSS analog speed control board and transformer	5,827
VSEC Stand alone motor control (C450)	CONTACT FACTORY

CONTROL OPTIONS

Control Circuit Breaker (2P - 15A)	505
Control circuit transformer†	953

2 X 2	2 X 3	2 X 4	2 X 5	2 X 6	2 X 7
-------	-------	-------	-------	-------	-------

DISCONNECT OPTIONS // Control Boards

Items with this mark also ‡ require the contactor option

CPC relay board + xfmr (2x2 thru 2x4 config) ‡	5,028	Not Available
CPC relay boards (2)+ xfmr (2x5 thru 2x7 config) ‡	Not Available	9,429
CPC relay board condenser split 50/50 (1 board + relay)	5,232	
CPC analog speed control board and transformer	5,263	
DANFOSS relay board + xfmr (2x2 thru 2x4 config) ‡	5,046	Not Available
DANFOSS relay boards (2) + xfmr (2x5 thru 2x7 config) ‡	Not Available	10,346
DANFOSS relay board condenser split 50/50 (relay) ‡	7,412	
DANFOSS analog speed control board and transformer	5,827	
VSEC Stand alone motor control (C450)	CONTACT FACTORY	

CONTROL OPTIONS

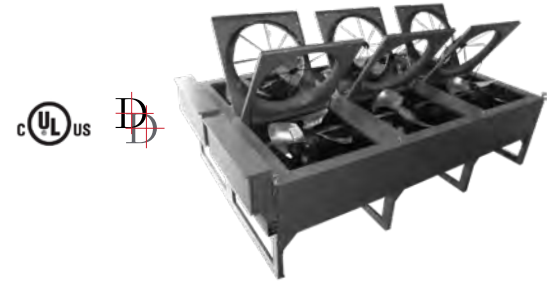
Control Circuit Breaker (2P - 15A)	505
Control circuit transformer†	953

Notes and references for Options on page 129.

Continued on next page...

LARGE AIR-COOLED CONDENSERS

Quantum Air™ Options



FAN CONFIGURATION

	1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7
FAN CONTROL OPTIONS (CONTACTORS)							
Individual Motor Contactors†	400	801	1,201	1,602	2,002	2,402	2,803
Individual motor fuses†	404	807	1,211	1,614	2,018	2,421	2,825
Individual circuit breakers††	1,119	2,238	3,357	4,476	5,595	6,714	7,833
Individual motor terminal blocks†	284	568	852	1,136	1,420	1,704	1,987
Fan toggle switches - per fan (to control contactors)†							
	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†	1,602	2,402	3,203	4,004	4,805	5,606	
Paired Motor Contactors†	801	1,201	1,602	2,002	2,402	2,803	
NEMA rated Contactors - Individual†	6,569	9,853	13,137	16,422	19,706	22,990	
NEMA rated Contactors - PAIRED†	3,284	4,926	6,569	8,211	9,853	11,495	
Individual motor fuses†	1,614	2,421	3,228	4,035	4,842	5,649	
Paired motor fuses†	807	1,211	1,614	2,018	2,421	2,825	
Individual circuit breakers††	4,476	6,714	8,952	11,190	13,428	15,667	
Paired circuit breakers††	2,238	3,357	4,476	5,595	6,714	7,833	
Individual motor terminal boards†	1,136	1,704	2,271	2,839	3,407	3,975	
Paired motor terminal blocks†	568	852	1,136	1,420	1,704	1,987	
Fan toggle switches - per fan (to control contactors)†	674	1,011	1,348	1,685	2,022	2,359	
Fan toggle switches - PAIRED (to control contactors)†	337	505	674	842	1,011	1,179	
Fan toggle switches - per fan (to control Motors)†	3,058	4,586	6,115	7,644	9,173	10,702	
Fan toggle switches - PAIRED (to control Motors)†	1,529	2,293	3,058	3,822	4,586	5,351	

Notes and references for Options on page 129.

Continued on next page...

LARGE AIR-COOLED CONDENSERS

Quantum Air™ Options



FAN CONFIGURATION

	1 X 1	1 X 2	1 X 3	1 X 4	1 X 5	1 X 6	1 X 7
BUILD OPTIONS**							
Horizontal Air Discharge	1,130	1,652	2,435	2,988	3,513	4,042	4,535
Stainless Steel Housing	CONTACT APPLICATION ENGINEERING						
Leg length - 21" or 30" - Standard Vertical air discharge	237	471	705	705	705	869	1,104
Leg length - 46" (Vertical air discharge only)	282	558	834	834	834	1,028	1,299
Sealtite wiring to motor rail	352	436	661	891	1,098	1,326	1,545
Sealtite wiring to electrical box	1,168	2,332	3,500	4,666	5,830	6,997	8,166
Condenser Base with 23" legs (Vertical air discharge only)	2,859	4,127	5,397	7,728	9,351	10,719	12,451
Condenser / Receiver Assembly (Vertical air discharge only)	CONTACT APPLICATION ENGINEERING						
Header End control panel mounting (Specify location change)	NO ADDITIONAL CHARGE FOR THIS FEATURE						
	2 X 2	2 X 3	2 X 4	2 X 5	2 X 6	2 X 7	
BUILD OPTIONS**							
Horizontal Air Discharge	3,308	4,817	5,973	7,026	8,080	9,074	
Stainless Steel Housing	CONTACT APPLICATION ENGINEERING						
Leg length - 21" or 30" - Standard Vertical air discharge	471	705	705	705	869	1,104	
Leg length - 46" (Vertical air discharge only)	558	834	834	834	1,028	1,299	
Sealtite wiring to motor rail	891	1,326	1,764	2,210	2,649	3,075	
Sealtite wiring to electrical box	4,666	6,997	9,330	11,665	13,996	16,329	
Condenser Base with 23" legs (Vertical air discharge only)	4,127	5,397	7,728	9,351	11,148	12,950	
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.

SMALL AIR-COOLED CONDENSERS

Multi-Con



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)

Options

- ▶ 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

Nomenclature

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		VI	Motor/Fan Type A - 1075 RPM, 0.33 HP, Metal Blade		IX	Coil Material and Coating Options* 1 - Aluminum fins		XI	Unit Design Configuration A - Vertical Fan Discharge, Standard Legs		
II	Unit Type D - Condenser			C - 850 RPM, 0.25 HP, Metal Blade			2 - Copper fins			E - Vertical Fan Discharge, 30" Legs		
III	Series S - Single fan wide			H - 1075 RPM, 0.5 HP Totally Enclosed, Metal Blade			3 - Al + AST coating			N - Horizontal Fan Discharge, Standard Legs		
IV	Capacity - 3 Number Characters					X	Housing Material and Coatings* 2 - Galvanized			Legs		
V	Voltage Code A - 115/1/60		VII	Length in Fans - 1 or 2			7 - Stainless Steel 316L		XII	Circuit Splitting Options 1 - Full		
	D - 208-230/1/60		VIII	Coil Density A - 8 FPI						2 - 50/50		
	E - 208-230/3/60			B - 10 FPI						X - Other		
	F - 460/1/60			C - 12 FPI					XIII	Vintage Code - Single Alphanumeric Character		
	G - 460/3/60			D - 14 FPI						A - Initial Release		

Codes D, E, F, & G can be used
w/50 or 60 Hz power

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

SMALL AIR-COOLED CONDENSERS

Multi-con



1075 RPM • 0.33 HP Motors

Model #	10 FPI List Price	Fan Configuration
KDS001DA1B12A1A	4,253	1 x 1
KDS002DA1B12A1A	5,580	1 x 1
KDS003DA1B12A1A	6,232	1 x 1
KDS005DA1B12A1A	11,390	1 x 1
KDS007DA2B12A1A	14,264	1 x 2
KDS009DA2B12A1A	17,458	1 x 2
KDS011DA2B12A1A	19,602	1 x 2

850 RPM • 0.25 HP Motors

Model #	10 FPI List Price	Fan Configuration
KDS001DC1B12A1A	4,662	1 x 1
KDS002DC1B12A1A	6,689	1 x 1
KDS003DC1B12A1A	7,648	1 x 1
KDS004DC1B12A1A	12,072	1 x 1
KDS006DC2B12A1A	14,891	1 x 2
KDS008DC2B12A1A	18,720	1 x 2
KDS009DC2B12A1A	20,348	1 x 2

1075 RPM • 0.5 HP Motors // Totally Enclosed

* represents E or G voltage only

Model #	10 FPI List Price	Fan Configuration
KDS001*H1B12A1A	6,187	1 x 1
KDS002*H1B12A1A	7,515	1 x 1
KDS003*H1B12A1A	8,170	1 x 1
KDS005*H1B12A1A	13,324	1 x 1

Model #	10 FPI List Price	Fan Configuration
KDS007*H2B12A1A	18,134	1 x 2
KDS009*H2B12A1A	21,329	1 x 2
KDS011*H2B12A1A	23,471	1 x 2

Continued

Position V // Available Voltage Options*

Voltage Codes	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	227	Available with motor options A & C
F - 460/1/60	N/C	Available with motor options A & C
G - 460/3/60	227	Available with motor options A & C

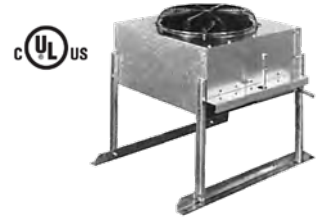
Position VI // Available Motor // Fan Type Options*

Motor Type	Adder Per Fan	Available Based Upon Position V // Voltage
A - 1075 RPM, 0.33 HP	-	Available in Voltage Codes A, D, E, F, G
C - 850 RPM, 0.25 HP	-	Available in Voltage Codes D, E, F, G
H - 1075 RPM, 0.5 HP	-	Available in Voltage Codes E & G (3 Phase units only)

N/A - Not Available • N/C - No Additional Charge • _ - Base Model Feature • Additional notes and references on next page

SMALL AIR-COOLED CONDENSERS

Multi-Con



Position VII // Indicates Length In Fans (1 or 2)

Position VIII // Coil Density Options Price Add Or Deduct (8 FPI)

Fan Configuration	A - 8 FPI	B - 10 FPI	C - 12 FPI	D - 14 FPI
1 x 1	(548)	-	698	1,396
1 x 2	(1,094)	-	1,396	2,784

Position IX // Coil Material & Coating Options**

Aluminum fins (standard) / Copper fins

No coating (standard) / Al + AST coating / Al + heresite coating

Position X // Housing Material & Coating Options**

Galvanized (standard) / Stainless Steel 316L

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, standard 30" legs	252	252
N - Horizontal fan discharge, standard legs	-	-

Position XII // Circuit Splitting Options**

Full (standard) / 50/50 / Multi-circuiting / Sub-cooling 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)

N/A - Not Available • N/C - No Additional Charge • _ - Base Model Feature

* 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

- Horizontal discharge orientation is available using standard leg arrangement code A
- Floating coil is not available for small condensers

Packaged Refrigeration System

All-In-One



Standard Features

- ▶ EcoNet Enabled to maximize energy efficiency with less compressor runtime
- ▶ EcoNet optimizes defrost by using adaptive defrost or managing compressor runtime
- ▶ EcoNet improves product quality by reducing temperature fluctuation
- ▶ Factory pre-charged with R-448A
- ▶ One electrical wiring point with the ability to add a plug on select models
- ▶ Standard boil-out pan with an option to mount a drain line
- ▶ Lift-off panels & large electrical box

Options

- ▶ Roof Kit
- ▶ Hail Guard
- ▶ Power cords

BTUH	
Medium Temperature 4,790 - 15,830	Low Temperature 3,790 - 15,130

Nomenclature

H	P	H	050	M	48	A	A
Brand	Product	Compressor	Horsepower	Temperature	Refrigerant	Voltage	Vintage
HTPG	Packaged Refrigeration System	H - Hermetic O - Scroll		M - Medium L - Low D - Medium Electric Defrost		A - 115/1/60 D - 230/1/60	A B



DOE AWEF values for specific models in a given application can be found in the Product Brochure on our website.

ALL-IN-ONE Package Refrigeration System



Medium Temperature // Air Defrost // R-448A

Model	Compressor Type	Compressor HP	Voltage	Cabinet Size	List Price (\$US)	Extended Compressor Warranty Part #	Extended Compressor Warranty Net Price
HPH050M48AA	Hermetic	0.5	115/1/60	Small	17,651	COMPRWH1	205
HPH055M48AA	Hermetic	0.5	115/1/60	Small	17,802	COMPRWH1	205
HPO080M48AA	Scroll	0.75	115/1/60	Small	18,349	COMPRWO1	381
HPO100M48AB	Scroll	1	115/1/60	Small	19,294	COMPRWO1	381
HPO120M48AA	Scroll	1.25	115/1/60	Large	25,345	COMPRWO1	381
HPH050M48DB	Hermetic	0.5	230/1/60	Small	17,724	COMPRWH1	205
HPH055M48DB	Hermetic	0.5	230/1/60	Small	17,884	COMPRWH1	205
HPO080M48DB	Scroll	0.75	230/1/60	Small	19,221	COMPRWO1	381
HPO100M48DB	Scroll	1	230/1/60	Small	22,812	COMPRWO1	381
HPO120M48DB	Scroll	1.25	230/1/60	Large	25,149	COMPRWO1	381
HPO150M48DB	Scroll	1.5	230/1/60	Large	29,560	COMPRWO1	381

Medium Temperature // Electric Defrost // R-448A

Model	Compressor Type	Compressor HP	Voltage	Cabinet Size	List Price (\$US)	Extended Compressor Warranty Part #	Extended Compressor Warranty Net Price
HPH050D48DB	Hermetic	0.5	230/1/60	Small	19,496	COMPRWH1	205
HPH055D48DB	Hermetic	0.5	230/1/60	Small	19,673	COMPRWH1	205
HPO080D48DB	Scroll	0.75	230/1/60	Small	20,182	COMPRWO1	381
HPO100D48DB	Scroll	1	230/1/60	Small	23,953	COMPRWO1	381
HPO120D48DB	Scroll	1.25	230/1/60	Large	26,407	COMPRWO1	381
HPO150D48DB	Scroll	1.5	230/1/60	Large	31,038	COMPRWO1	381

Low Temperature // Electric Defrost // R-448A

Model	Compressor Type	Compressor HP	Voltage	Cabinet Size	List Price (\$US)	Extended Compressor Warranty Part #	Extended Compressor Warranty Net Price
HPO150L48DB	Scroll	1.5	230/1/60	Small	29,942	COMPRWO1	381
HPO250L48DB	Scroll	2.5	230/1/60	Small	32,533	COMPRWO1	381
HPO300L48DB	Scroll	3	230/1/60	Large	38,470	COMPRWO2	500
HPO350L48DB	Scroll	3.5	230/1/60	Large	44,308	COMPRWO2	500

ALL-IN-ONE

Package Refrigeration System



Roof Kits

Part #	Cabinet Size	List Price (\$US)
08537719	Small	2,442
08537720	Large	2,442

Hail Guards

Part #	Cabinet Size	List Price (\$US)
08537721	Small	1,790
08537722	Large	1,790

Power Cords

"-" Not Available

	Model	Part #	NEMA Receptacle	List Price (\$US)
MEDIUM TEMP AIR	HPH050M48AA	08538541	5-20R	203
	HPH055M48AA	08538541	5-20R	203
	HPO080M48AA	08538541	5-20R	203
	HPO100M48AB	-	-	-
	HPO120M48AA	-	-	-
	HPH050M48DB	08238542	6-15R	203
	HPH055M48DB	08238542	6-15R	203
	HPO080M48DB	08238542	6-15R	203
	HPO100M48DB	08238542	6-15R	203
	HPO120M48DB	08238542	6-15R	203
	HPO150M48DB	-	-	-
MED. TEMP ELECTRIC	HPH050D48DB	08238542	6-15R	203
	HPH055D48DB	08238542	6-15R	203
	HPO080D48DB	08238542	6-15R	203
	HPO100D48DB	08238542	6-15R	203
	HPO120D48DB	08238542	6-15R	203
	HPO150D48DB	08538543	6-20R	203
LOW TEMP ELECTRIC	HPO150L48DB	08238542	6-15R	203
	HPO250L48DB	08538543	6-20R	203
	HPO300L48DB	-	-	-
	HPO350L48DB	-	-	-

- 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: 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.
- 7 THIS GUARANTEE SUPERSEDES AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES BY LAW OR CUSTOM, EITHER EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED BY THIS ENUMERATION, ANY GUARANTEE AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EXCEPT AS SET FORTH ABOVE. NO PERSON, AGENT, OR DEALER IS AUTHORIZED TO GIVE ANY WARRANTIES ON BEHALF OF SELLER NOR TO ASSUME FOR SELLER ANY OTHER LIABILITY IN CONNECTION WITH ANY OF THE SELLER'S PRODUCTS.
- 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 acknowledgment.



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