

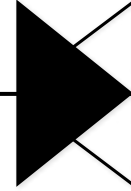
KRAMER

EQUIPMENT PRICE LIST

APRIL 2025



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 Seller's 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



STEP-IN UNIT COOLERS



MODEL NOMENCLATURE

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

ASL	A	2	5	061	A	D	A
Product Line	Defrost Type	No. of Fans	Fins Per Inch (FPI)	Capacity	Voltage	Motor Type	Vintage
ASL - 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	

MODELS



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

ASLA/ASLE

**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

BTUH 4,600 to 17,300**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 No.	List Price (\$US)	Model No.	List Price (\$US)	Model No.	List Price (\$US)	Model No.	List Price (\$US)
ASLA25048ADA	6,110	ASLA25048DDA	6,110	ASLA25048ADARP	8,176	ASLA25048DDARP	8,176
ASLA25061ADA	6,289	ASLA25061DDA	6,289	ASLA25061ADARP	8,299	ASLA25061DDARP	8,299
ASLA35073ADA	6,744	ASLA35073DDA	6,744	ASLA35073ADARP	8,936	ASLA35073DDARP	8,936
ASLA45098ADA	8,101	ASLA45098DDA	8,101	ASLA45098ADARP	10,179	ASLA45098DDARP	10,179
ASLA55122ADA	9,495	ASLA55122DDA	9,495	ASLA55122ADARP	11,585	ASLA55122DDARP	11,585
ASLA65158ADA	10,793	ASLA65158DDA	10,793	ASLA65158ADARP	13,033	ASLA65158DDARP	13,033

ELECTRIC DEFROST

Standard Coil	
230 V	
Model No.	List Price (\$US)
ASLE25046DDA	6,537
ASLE25058DDA	6,840
ASLE35070DDA	7,353
ASLE45094DDA	8,820
ASLE55117DDA	10,267
ASLE65150DDA	11,642

See page 4 for nomenclature

\$78 List Adder for 3-prong Electrical Connector

* Must specify white or black Russ-Proof

FACTORY MOUNTED OPTIONS

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	769
Liquid Line Solenoid Valve (LLSV)	557
Mechanical Thermostat	567
Electronic Expansion Valve (EEV)	2,425

SHIPPED-LOOSE OPTIONS

Option	List Price Adder (\$US)
Thermostatic Expansion Valve (TXV)	625
Liquid Line Solenoid Valve (LLSV)	527
Mechanical Thermostat	533

WALK-IN UNIT COOLERS

MODEL 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 (FPI)	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	

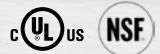
MODELS



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

NEXT-GEN ALL-TEMP LOW PROFILE

Small to Medium Walk-Ins
Cooler and Freezer Applications



BTUH

Air Defrost

4,100 - 45,900

Electric Defrost

2,700 - 33,000

Hot Gas Defrost

2,700 - 33,000

MODEL NOMENCLATURE // CONFIGURABLE BASE MODEL

K	L	6	E	042	E	D	A
Brand	Connections	Fins Per Inch (FPI)	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	S	L
Refrigerant	Valve	Pre-assembly Code
A - R404A R - EcoNet Approved Refrigerants ³ S - R407A, R448A, R449A/B	O - Sporlan OEV S - Sporlan SER	C - Mounted TXV, LLSV & Electronic Thermostat E - EcoNet 1.0 Control Package ⁴ F - EcoNet 2.0 Control Package ⁴ L - Mounted TXV, LLSV & Mechanical Thermostat ⁵



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

Continued on next page

NEXT-GEN ALL-TEMP LOW PROFILE

Small to Medium Walk-Ins
Cooler and Freezer Applications



BTUH

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

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

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°FSS/10°FDT (Air Defrost) and -20°FSS/10°FDT (Electric Defrost).

• CO2 and Glycol Next-Gen All-Temp Unit Coolers available. If required, please contact factory.

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI			
	115 V		230 V	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6A041ADA	3,165	KL6A041DDA	3,165
	KL6A052ADA	3,250	KL6A052DDA	3,250
	KL6A066ADA	3,773	KL6A066DDA	3,773
2	KL6A073ADA	4,930	KL6A073DDA	4,930
	KL6A094ADA	5,584	KL6A094DDA	5,584
	KL6A117ADA	5,866	KL6A117DDA	5,866
	KL6A130ADA	6,264	KL6A130DDA	6,264
3	KL6A141ADA	7,578	KL6A141DDA	7,578
	KL6A161ADA	8,415	KL6A161DDA	8,415
	KL6A181ADA	9,171	KL6A181DDA	9,171
4	KL6A195ADA	9,881	KL6A195DDA	9,881
	KL6A235ADA	11,983	KL6A235DDA	11,983
	KL6A260ADA	13,058	KL6A260DDA	13,058
5	KL6A295ADA	14,974	KL6A295DDA	14,974
6	KL6A330ADA	16,072	KL6A330DDA	16,072
	KL6A390ADA	18,045	KL6A390DDA	18,045

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

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
	TXV	EEV ¹	EcoNet 2.0 Control Package w/ Sporlan OEV	EcoNet 2.0 Control Package w/ Sporlan SER	KE2 Evaporator Defrost Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	769	2,472	3,180	3,363	6,937	557	567	850	999
2	769	2,472	3,180	3,363	6,937	557	567	850	1,262
3	769	2,472	3,180	3,363	6,937	557	567	850	1,532
4	769	2,472	3,180	3,363	6,937	557	567	850	1,761
5	769	2,472	3,180	3,363	6,937	646	567	850	2,011
6	1,446	2,472	3,180	3,363	6,937	646	567	850	2,286

See notes on next page

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED⁵ MODELS // CODE C // 115 VModels include mounted TXV, LLSV, and Electronic Thermostat⁶

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI		
	115 V		
	Model No. R404A	Model No. R407A, R448A, R449A/B	List Price (\$US)
1	KL6A041ADAAC	KL6A041ADASC	5,341
	KL6A052ADAAC	KL6A052ADASC	5,426
	KL6A066ADAAC	KL6A066ADASC	5,949
2	KL6A073ADAAC	KL6A073ADASC	7,106
	KL6A094ADAAC	KL6A094ADASC	7,760
	KL6A117ADAAC	KL6A117ADASC	8,042
	KL6A130ADAAC	KL6A130ADASC	8,440
3	KL6A141ADAAC	KL6A141ADASC	9,754
	KL6A161ADAAC	KL6A161ADASC	10,591
	KL6A181ADAAC	KL6A181ADASC	11,347
4	KL6A195ADAAC	KL6A195ADASC	12,057
	KL6A235ADAAC	KL6A235ADASC	14,159
	KL6A260ADAAC	KL6A260ADASC	15,234
5	KL6A295ADAAC	KL6A295ADASC	17,239
6	KL6A330ADAAC	KL6A330ADASC	19,014
	KL6A390ADAAC	KL6A390ADASC	20,987

AIR DEFROST CONFIGURABLE OPTIONS

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

Shipped-Loose Accessories are found on page 27 • 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).

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE C // 230 VModels include mounted TXV, LLSV, and Electronic Thermostat²

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI		
	230 V		
	Model No. R404A	Model No. R407A, R448A, R449A/B	List Price (\$US)
1	KL6A041DDAAC	KL6A041DDASC	5,341
	KL6A052DDAAC	KL6A052DDASC	5,426
	KL6A066DDAAC	KL6A066DDASC	5,949
2	KL6A073DDAAC	KL6A073DDASC	7,106
	KL6A094DDAAC	KL6A094DDASC	7,760
	KL6A117DDAAC	KL6A117DDASC	8,042
	KL6A130DDAAC	KL6A130DDASC	8,440
3	KL6A141DDAAC	KL6A141DDASC	9,754
	KL6A161DDAAC	KL6A161DDASC	10,591
	KL6A181DDAAC	KL6A181DDASC	11,347
4	KL6A195DDAAC	KL6A195DDASC	12,057
	KL6A235DDAAC	KL6A235DDASC	14,159
	KL6A260DDAAC	KL6A260DDASC	15,234
5	KL6A295DDAAC	KL6A295DDASC	17,239
6	KL6A330DDAAC	KL6A330DDASC	19,014
	KL6A390DDAAC	KL6A390DDASC	20,987

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE RE // ECONET 1.0 ENABLED
 Models include EcoNet Control Package³

EcoNet 1.0 only available
 while supplies last

DUAL SPEED EC MOTORS - 6 FPI - 115 V		
No. of Fans	EcoNet Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6A041ADARE	6,345
	KL6A052ADARE	6,430
	KL6A066ADARE	6,953
2	KL6A073ADARE	8,110
	KL6A094ADARE	8,764
	KL6A117ADARE	9,046
	KL6A130ADARE	9,444
3	KL6A141ADARE	10,758
	KL6A161ADARE	11,595
	KL6A181ADARE	12,351
4	KL6A195ADARE	13,061
	KL6A235ADARE	15,163
	KL6A260ADARE	16,238
5	KL6A295ADARE	18,154
6	KL6A330ADARE	19,252
	KL6A390ADARE	21,225

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.

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE RSF // ECONET 2.0 WITH SER VALVEModels include EcoNet 2.0 Control Package³

DUAL SPEED EC MOTORS - 6 FPI - 115 V		
No. of Fans	EcoNet 2.0 Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6A041ADARSF	6,528
	KL6A052ADARSF	6,613
	KL6A066ADARSF	7,136
2	KL6A073ADARSF	8,293
	KL6A094ADARSF	8,947
	KL6A117ADARSF	9,229
	KL6A130ADARSF	9,627
3	KL6A141ADARSF	10,941
	KL6A161ADARSF	11,778
	KL6A181ADARSF	12,534
4	KL6A195ADARSF	13,244
	KL6A235ADARSF	15,346
	KL6A260ADARSF	16,421
5	KL6A295ADARSF	18,337
6	KL6A330ADARSF	19,435
	KL6A390ADARSF	21,408

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.

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE ROF // ECONET 2.0 WITH OEV VALVEModels include EcoNet 2.0 Control Package³

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 115 V	
	EcoNet 2.0 Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6A041ADAROF	6,345
	KL6A052ADAROF	6,430
	KL6A066ADAROF	6,953
2	KL6A073ADAROF	8,110
	KL6A094ADAROF	8,764
	KL6A117ADAROF	9,046
	KL6A130ADAROF	9,444
3	KL6A141ADAROF	10,758
	KL6A161ADAROF	11,595
	KL6A181ADAROF	12,351
4	KL6A195ADAROF	13,061
	KL6A235ADAROF	15,163
	KL6A260ADAROF	16,238
5	KL6A295ADAROF	18,154
6	KL6A330ADAROF	19,252
	KL6A390ADAROF	21,225

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.

NEXT-GEN ALL-TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE LModels include mounted TXV, LLSV, and Mechanical Thermostat²

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 115 V			
	Mounted Components (404)		Mounted Components (High-Glide)	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6A041ADAAL	5,058	KL6A041ADASL	5,058
	KL6A052ADAAL	5,143	KL6A052ADASL	5,143
	KL6A066ADAAL	5,666	KL6A066ADASL	5,666
2	KL6A073ADAAL	6,823	KL6A073ADASL	6,823
	KL6A094ADAAL	7,477	KL6A094ADASL	7,477
	KL6A117ADAAL	7,759	KL6A117ADASL	7,759
	KL6A130ADAAL	8,157	KL6A130ADASL	8,157
3	KL6A141ADAAL	9,471	KL6A141ADASL	9,471
	KL6A161ADAAL	10,308	KL6A161ADASL	10,308
	KL6A181ADAAL	11,064	KL6A181ADASL	11,064
4	KL6A195ADAAL	11,774	KL6A195ADASL	11,774
	KL6A235ADAAL	13,876	KL6A235ADASL	13,876
	KL6A260ADAAL	14,951	KL6A260ADASL	14,951
5	KL6A295ADAAL	16,956	KL6A295ADASL	16,956
6	KL6A330ADAAL	18,731	KL6A330ADASL	18,731
	KL6A390ADAAL	20,704	KL6A390ADASL	20,704

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 230 V			
	6 FPI		4 FPI	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6E035DDA	4,318	KL4E027DDA	4,145
	KL6E042DDA	4,803	KL4E032DDA	4,610
	KL6E049DDA	5,285	KL4E038DDA	5,075
2	KL6E066DDA	6,660	KL4E051DDA	6,392
	KL6E077DDA	7,006	KL4E064DDA	6,728
	KL6E090DDA	7,212	KL4E080DDA	6,924
	KL6E105DDA	8,451	Not Available	
3	KL6E121DDA	9,449	KL4E094DDA	9,068
	KL6E142DDA	10,780	KL4E110DDA	10,351
4	KL6E162DDA	12,645	KL4E125DDA	12,136
	KL6E182DDA	13,953	KL4E141DDA	13,392
5	KL6E200DDA	15,690	KL4E155DDA	15,066
6	KL6E244DDA	18,407	KL4E195DDA	17,671
	KL6E281DDA	20,380	KL4E230DDA	19,564

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

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)									
	TXV	EEV ¹	EcoNet 2.0 Control Package w/ Sporlan OEV	EcoNet 2.0 Control Package w/ Sporlan SER	KE2 Evaporator Defrost Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	769	2,472	3,180	3,363	6,937	557	567	850	585	999
2	769	2,472	3,180	3,363	6,937	557	567	850	585	1,262
3	769	2,472	3,180	3,363	6,937	557	567	850	585	1,532
4	769	2,472	3,180	3,363	6,937	557	567	850	585	1,761
5	769	2,472	3,180	3,363	6,937	646	567	850	585	2,011
6	1,446	2,472	3,180	3,363	6,937	646	567	850	585	2,286

See notes on next page.

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED⁵ MODELS // CODE CModels include mounted TXV, LLSV, and Electronic Thermostat⁶

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI		
	230 V		
	Model No. R404A	Model No. R407A, R448A, R449A/B	List Price (\$US)
1	KL6E035DDAAC	KL6E035DDASC	6,494
	KL6E042DDAAC	KL6E042DDASC	6,979
	KL6E049DDAAC	KL6E049DDASC	7,461
2	KL6E066DDAAC	KL6E066DDASC	8,836
	KL6E077DDAAC	KL6E077DDASC	9,182
	KL6E090DDAAC	KL6E090DDASC	9,388
	KL6E105DDAAC	KL6E105DDASC	10,627
3	KL6E121DDAAC	KL6E121DDASC	11,625
	KL6E142DDAAC	KL6E142DDASC	12,956
4	KL6E162DDAAC	KL6E162DDASC	14,821
	KL6E182DDAAC	KL6E182DDASC	16,129
5	KL6E200DDAAC	KL6E200DDASC	17,955
6	KL6E244DDAAC	KL6E244DDASC	21,349
	KL6E281DDAAC	KL6E281DDASC	23,322

ELECTRIC DEFROST CONFIGURABLE OPTIONS

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

Shipped-Loose Accessories are found on page 27 • 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).

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE RE // ECONET 1.0 ENABLED
 Models include EcoNet Control Package³

EcoNet 1.0 only available
 while supplies last

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 230 V	
	EcoNet Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6E035DDARE	7,498
	KL6E042DDARE	7,983
	KL6E049DDARE	8,465
2	KL6E066DDARE	9,840
	KL6E077DDARE	10,186
	KL6E090DDARE	10,392
	KL6E105DDARE	11,631
3	KL6E121DDARE	12,629
	KL6E142DDARE	13,960
4	KL6E162DDARE	15,825
	KL6E182DDARE	17,133
5	KL6E200DDARE	18,870
6	KL6E244DDARE	21,587
	KL6E281DDARE	23,560

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.

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE RSF // ECONET 2.0 WITH SER VALVEModels include EcoNet 2.0 Control Package³

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 230 V	
	EcoNet 2.0 Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6E035DDARSF	7,681
	KL6E042DDARSF	8,166
	KL6E049DDARSF	8,648
2	KL6E066DDARSF	10,023
	KL6E077DDARSF	10,369
	KL6E090DDARSF	10,575
	KL6E105DDARSF	11,814
3	KL6E121DDARSF	12,812
	KL6E142DDARSF	14,143
4	KL6E162DDARSF	16,008
	KL6E182DDARSF	17,316
5	KL6E200DDARSF	19,053
6	KL6E244DDARSF	21,770
	KL6E281DDARSF	23,743

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.

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE ROF // ECONET 2.0 WITH OEV VALVE
 Models include EcoNet 2.0 Control Package³

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 230 V	
	EcoNet 2.0 Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6E035DDAROF	7,498
	KL6E042DDAROF	7,983
	KL6E049DDAROF	8,465
2	KL6E066DDAROF	9,840
	KL6E077DDAROF	10,186
	KL6E090DDAROF	10,392
	KL6E105DDAROF	11,631
3	KL6E121DDAROF	12,629
	KL6E142DDAROF	13,960
4	KL6E162DDAROF	15,825
	KL6E182DDAROF	17,133
5	KL6E200DDAROF	18,870
6	KL6E244DDAROF	21,587
	KL6E281DDAROF	23,560

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.

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE LModels include mounted TXV, LLSV, and Mechanical Thermostat²

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI - 230 V			
	R404A		R407A, R448A, R449A/B	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6E035DDAAL	6,211	KL6E035DDASL	6,211
	KL6E042DDAAL	6,696	KL6E042DDASL	6,696
	KL6E049DDAAL	7,178	KL6E049DDASL	7,178
2	KL6E066DDAAL	8,553	KL6E066DDASL	8,553
	KL6E077DDAAL	8,899	KL6E077DDASL	8,899
	KL6E090DDAAL	9,105	KL6E090DDASL	9,105
	KL6E105DDAAL	10,344	KL6E105DDASL	10,344
3	KL6E121DDAAL	11,342	KL6E121DDASL	11,342
	KL6E142DDAAL	12,673	KL6E142DDASL	12,673
4	KL6E162DDAAL	14,538	KL6E162DDASL	14,538
	KL6E182DDAAL	15,846	KL6E182DDASL	15,846
5	KL6E200DDAAL	17,672	KL6E200DDASL	17,672
6	KL6E244DDAAL	21,066	KL6E244DDASL	21,066
	KL6E281DDAAL	23,039	KL6E281DDASL	23,039

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).

NEXT-GEN ALL-TEMP • LOW PROFILE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 115 V			
	6 FPI		4 FPI	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6G035ADA	4,205	KL4G027ADA	4,035
	KL6G042ADA	4,747	KL4G032ADA	4,556
	KL6G049ADA	5,355	KL4G038ADA	5,144
2	KL6G066ADA	6,431	KL4G051ADA	6,175
	KL6G077ADA	7,119	KL4G064ADA	6,835
	KL6G090ADA	7,546	KL4G080ADA	7,246
	KL6G105ADA	8,846	Not Available	
3	KL6G121ADA	9,288	KL4G094ADA	8,914
	KL6G142ADA	10,871	KL4G110ADA	10,436
4	KL6G162ADA	12,074	KL4G125ADA	11,588
	KL6G182ADA	13,525	KL4G141ADA	12,982
5	KL6G200ADA	14,297	KL4G155ADA	13,726
6	KL6G244ADA	17,313	KL4G195ADA	16,620
	KL6G281ADA	19,280	KL4G230ADA	18,509

No. of Fans	DUAL SPEED EC MOTORS - 230 V			
	6 FPI		4 FPI	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6G035DDA	4,299	KL4G027DDA	4,130
	KL6G042DDA	4,857	KL4G032DDA	4,663
	KL6G049DDA	5,481	KL4G038DDA	5,265
2	KL6G066DDA	6,844	KL4G051DDA	6,570
	KL6G077DDA	5,938	KL4G064DDA	7,226
	KL6G090DDA	8,054	KL4G080DDA	7,732
	KL6G105DDA	9,355	Not Available	
3	KL6G121DDA	9,883	KL4G094DDA	9,486
	KL6G142DDA	11,261	KL4G110DDA	10,811
4	KL6G162DDA	12,836	KL4G125DDA	12,323
	KL6G182DDA	14,523	KL4G141DDA	13,940
5	KL6G200DDA	15,198	KL4G155DDA	14,591
6	KL6G244DDA	18,579	KL4G195DDA	17,837
	KL6G281DDA	20,800	KL4G230DDA	19,969

See notes on next page

NEXT-GEN ALL-TEMP • LOW PROFILE

HOT GAS DEFROST CONFIGURABLE OPTIONS

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV ¹	EEV ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	769	2,472	557	567	850	585	999
2	769	2,472	557	567	850	585	1,262
3	769	2,472	557	567	850	585	1,532
4	769	2,472	557	567	850	585	1,761
5	769	2,472	646	567	850	585	2,011
6	1,446	2,472	646	567	850	585	2,286

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 27 • 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.

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

NEXT-GEN ALL-TEMP • LOW PROFILE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 115 V			
	6 FPI		4 FPI	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6H035ADA	4,205	KL4H027ADA	4,035
	KL6H042ADA	4,747	KL4H032ADA	4,556
	KL6H049ADA	5,355	KL4H038ADA	5,144
2	KL6H066ADA	6,431	KL4H051ADA	6,175
	KL6H077ADA	7,119	KL4H064ADA	6,835
	KL6H090ADA	7,546	KL4H080ADA	7,246
	KL6H105ADA	8,846	Not Available	
3	KL6H121ADA	9,288	KL4H094ADA	8,914
	KL6H142ADA	10,871	KL4H110ADA	10,436
4	KL6H162ADA	12,074	KL4H125ADA	11,588
	KL6H182ADA	13,525	KL4H141ADA	12,982
5	KL6H200ADA	14,297	KL4H155ADA	13,726
6	KL6H244ADA	17,313	KL4H195ADA	16,620
	KL6H281ADA	19,280	KL4H230ADA	18,509

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.

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

NEXT-GEN ALL-TEMP • LOW PROFILE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 230 V			
	6 FPI		4 FPI	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KL6H035DDA	4,299	KL4H027DDA	4,130
	KL6H042DDA	4,857	KL4H032DDA	4,663
	KL6H049DDA	5,481	KL4H038DDA	5,265
2	KL6H066DDA	6,844	KL4H051DDA	6,570
	KL6H077DDA	7,530	KL4H064DDA	7,226
	KL6H090DDA	8,054	KL4H080DDA	7,732
	KL6H105DDA	9,355	Not Available	
3	KL6H121DDA	9,883	KL4H094DDA	9,486
	KL6H142DDA	11,261	KL4H110DDA	10,811
4	KL6H162DDA	12,836	KL4H125DDA	12,323
	KL6H182DDA	14,523	KL4H141DDA	13,940
5	KL6H200DDA	15,198	KL4H155DDA	14,591
6	KL6H244DDA	18,579	KL4H195DDA	17,837
	KL6H281DDA	20,800	KL4H230DDA	19,969

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.

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

NEXT-GEN ALL-TEMP • LOW PROFILE

HOT GAS DEFROST CONFIGURABLE OPTIONS

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV ¹	EEV ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan
1	769	2,472	557	567	850	585	999
2	769	2,472	557	567	850	585	1,262
3	769	2,472	557	567	850	585	1,532
4	769	2,472	557	567	850	585	1,761
5	769	2,472	646	567	850	585	2,011
6	1,446	2,472	646	567	850	585	2,286

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 27 • 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.

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

NEXT-GEN ALL-TEMP • LOW PROFILE

Shipped Loose Accessories

CONTROLS & THERMOSTATS

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700

CENTER MOUNT LOW HEIGHT

Small to Medium Walk-Ins
Cooler and Freezer Applications



BTUH

Air Defrost

Electric Defrost

4,100 - 30,400

3,700 - 32,400

MODEL NOMENCLATURE

K	E	6	A	041	A	D	A
Brand	Style	Fins Per Inch (FPI)	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	

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



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

CENTER MOUNT • LOW HEIGHT

AIR DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI			
	115 V		230 V	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KE6A041ADA	4,187	KE6A041DDA	4,399
2	KE6A070ADA	6,078	KE6A070DDA	6,346
	KE6A084ADA	6,665	KE6A084DDA	6,940
3	KE6A104ADA	7,276	KE6A104DDA	7,607
	KE6A128ADA	9,093	KE6A128DDA	9,440
4	KE6A141ADA	10,025	KE6A141DDA	10,426
	KE6A169ADA	11,543	KE6A169DDA	11,960
5	KE6A204ADA	12,594	KE6A204DDA	13,073
	KE6A258ADA	15,238	KE6A258DDA	17,305

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package w/ Sporlan OEV	EcoNet 2.0 Control Package w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	769	2,472	3,180	3,363	557	567	850	259
2	769	2,472	3,180	3,363	557	567	850	326
3	769	2,472	3,180	3,363	557	567	850	395
4	769	2,472	3,180	3,363	557	567	850	463
5	769	2,472	3,180	3,363	557	567	850	533

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 LLSV voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on page 31 • 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.

CENTER MOUNT • LOW HEIGHT

ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 4 FPI	
	230 V	
	Model No.	List Price (\$US)
1	KE4E037DDA	6,596
2	KE4E075DDA	9,172
3	KE4E107DDA	12,409
4	KE4E149DDA	15,620
5	KE4E186DDA	17,671
	KE4E234DDA	20,322

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.

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI	
	230 V	
	Model No.	List Price (\$US)
1	KE6E037DDA	6,596
	KE6E045DDA	8,880
2	KE6E075DDA	9,172
	KE6E089DDA	11,539
3	KE6E108DDA	12,525
	KE6E125DDA	12,675
4	KE6E137DDA	15,231
	KE6E182DDA	16,117
5	KE6E221DDA	19,198
	KE6E278DDA	21,550

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package w/ Sporlan OEV	EcoNet 2.0 Control Package w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	769	2,472	3,180	3,363	557	567	850	259
2	769	2,472	3,180	3,363	557	567	850	326
3	769	2,472	3,180	3,363	557	567	850	395
4	769	2,472	3,180	3,363	557	567	850	463
5	769	2,472	3,180	3,363	557	567	850	533

ELECTRIC DEFROST CONFIGURABLE OPTIONS

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

Shipped-Loose Accessories are found on next page • 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.

CENTER MOUNT • LOW HEIGHT

Shipped Loose Accessories

CONTROLS & THERMOSTATS

Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

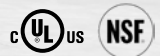
Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700

CENTER MOUNT LOW VELOCITY

Small to Medium Walk-Ins
Cooler Applications



BTUH

Air Defrost

Electric Defrost

4,300 - 32,500

4,300 - 32,500

MODEL NOMENCLATURE

K	V	6	A	043	A	D	A
Brand	Style	Fins Per Inch (FPI)	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	

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)



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

CENTER MOUNT • LOW VELOCITY

CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI					
	Air Defrost				Electric Defrost	
	115 V		230 V		230 V	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KV6A043ADA	6,609	KV6A043DDA	6,871	KV6E043DDA	7,608
	KV6A053ADA	6,844	KV6A053DDA	7,118	KV6E053DDA	7,986
2	KV6A085ADA	7,971	KV6A085DDA	8,291	KV6E085DDA	9,342
	KV6A106ADA	9,776	KV6A106DDA	10,168	KV6E106DDA	11,299
3	KV6A129ADA	11,347	KV6A129DDA	11,802	KV6E129DDA	13,263
	KV6A158ADA	12,731	KV6A158DDA	13,244	KV6E158DDA	14,816
4	KV6A176ADA	15,516	KV6A176DDA	16,137	KV6E176DDA	18,146
	KV6A218ADA	17,546	KV6A218DDA	18,248	KV6E218DDA	20,404
5	KV6A271ADA	19,241	KV6A271DDA	20,012	KV6E271DDA	22,729

CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package w/ Sporlan OEV	EcoNet 2.0 Control Package w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	769	2,472	3,180	3,363	557	567	850	259
2	769	2,472	3,180	3,363	557	567	850	326
3	769	2,472	3,180	3,363	557	567	850	395
4	769	2,472	3,180	3,363	557	567	850	463
5	769	2,472	3,180	3,363	557	567	850	533

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 LLS voltage must match the voltage applied to the motor.

Shipped-Loose Accessories are found on next page • 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.

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	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700

MEDIUM PROFILE

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



BTUH

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



MODEL NOMENCLATURE

K	M	6	E	153	A	D	A
Brand	Style	Fins Per Inch (FPI)	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	M - Medium Profile	6 FPI 4 FPI	A - Air D - Medium Temp Electric E - Low Temp 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	

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



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

MEDIUM PROFILE

AIR DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI					
	115/1/60		208-230/1/60		460/1/60	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KM6A182ADA	10,893	KM6A182DDA	11,110	KM6A182FDA	11,765
	KM6A220ADA	13,143	KM6A220DDA	13,405	KM6A220FDA	14,196
2	KM6A276ADA	18,477	KM6A276DDA	18,848	KM6A276FDA	19,956
	KM6A370ADA	23,355	KM6A370DDA	23,822	KM6A370FDA	25,225
	KM6A442ADA	27,093	KM6A442DDA	27,636	KM6A442FDA	29,261
3	KM6A549ADA	32,879	KM6A549DDA	33,538	KM6A549FDA	35,509
	KM6A658ADA	34,636	KM6A658DDA	35,330	KM6A658FDA	37,405

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	769	2,472	4,413	11,908	1,107	567	850	798
2	1,446	2,472	4,413	11,908	1,107	567	850	1,315
3	1,446	2,472	4,413	11,908	1,377	567	850	1,759

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 KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

Shipped-Loose Accessories are found on page 42 • 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.

MEDIUM PROFILE

LOW TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/1/60		208-230/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6E153DDA	13,921	KM6E153EDA	14,058
		KM6E184DDA	18,183	KM6E184EDA	18,366
	2	KM6E311DDA	22,838	KM6E311EDA	23,068
		KM6E374DDA	29,460	KM6E374EDA	29,757
	3	Not Available		KM6E469EDA	33,708
		Not Available		KM6E564EDA	36,940
4 FPI	1	KM4E110DDA	13,364	KM4E110EDA	13,498
		KM4E143DDA	17,456	KM4E143EDA	17,633
	2	KM4E232DDA	21,926	KM4E232EDA	22,147
		KM4E288DDA	28,281	KM4E288EDA	28,567
	3	Not Available		KM4E336EDA	32,362
		Not Available		KM4E419EDA	35,467

No. of Fans		DUAL SPEED EC MOTORS			
		460/1/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6E153FDA	15,044	KM6E153GDA	15,186
		KM6E184FDA	19,651	KM6E184GDA	19,835
	2	KM6E311FDA	24,682	KM6E311GDA	24,914
		KM6E374FDA	31,839	KM6E374GDA	32,135
	3	KM6E469FDA	36,068	KM6E469GDA	36,404
		KM6E564FDA	39,526	KM6E564GDA	39,897
4 FPI	1	KM4E110FDA	14,444	KM4E110GDA	14,577
		KM4E143FDA	18,867	KM4E143GDA	19,042
	2	KM4E232FDA	23,697	KM4E232GDA	23,917
		KM4E288FDA	30,566	KM4E288GDA	30,851
	3	KM4E336FDA	34,627	KM4E336GDA	34,951
		KM4E419FDA	37,946	KM4E419GDA	38,303

See notes on page 39.

MEDIUM PROFILE

MEDIUM TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/1/60		208-230/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6D181DDA	13,921	KM6D181EDA	14,058
		KM6D219DDA	18,183	KM6D219EDA	18,366
	2	KM6D275DDA	20,511	KM6D275EDA	20,718
		KM6D369DDA	22,838	KM6D369EDA	23,068
		KM6D441DDA	29,460	KM6D441EDA	29,757
	3	Not Available		KM6D548EDA	33,708
		Not Available		KM6D657EDA	36,940

No. of Fans		DUAL SPEED EC MOTORS			
		460/1/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6D181FDA	15,044	KM6D181GDA	15,186
		KM6D219FDA	19,651	KM6D219GDA	19,835
	2	KM6D275FDA	22,166	KM6D275GDA	22,376
		KM6D369FDA	24,682	KM6D369GDA	24,914
		KM6D441FDA	31,839	KM6D441GDA	32,135
	3	KM6D548FDA	36,068	KM6D548GDA	36,404
		KM6D657FDA	39,526	KM6D657GDA	39,897

See notes on next page.

MEDIUM PROFILE

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
	TXV	EEV ¹	EcoNet 2.0 Control Package	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	769	2,472	4,413	11,908	1,107	567	850	585	798
2	1,446	2,472	4,413	11,908	1,107	567	850	585	1,315
3	1,446	2,472	4,413	11,908	1,377	567	850	585	1,759

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 KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

Shipped-Loose Accessories are found on page 42 • 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.

Adjustable Defrost Control / Fan Delay Switch is standard on Medium Temp Electric Defrost "D" models.

MEDIUM PROFILE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6G153DDA	19,563	KM6G153FDA	21,144
		KM6G184DDA	20,419	KM6G184FDA	22,068
	2	KM6G311DDA	28,791	KM6G311FDA	31,117
		KM6G374DDA	30,655	KM6G374FDA	33,133
	3	KM6G469DDA	37,969	KM6G469FDA	41,037
		KM6G564DDA	41,149	KM6G564FDA	44,477
4 FPI	1	KM4G110DDA	18,781	KM4G110FDA	20,300
		KM4G143DDA	19,602	KM4G143FDA	21,184
	2	KM4G232DDA	27,640	KM4G232FDA	29,874
		KM4G288DDA	29,432	KM4G288FDA	31,808
	3	KM4G336DDA	36,450	KM4G336FDA	39,393
		KM4G419DDA	39,505	KM4G419FDA	42,697

HOT GAS DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
	TXV	EEV ¹	EcoNet 2.0 Control Package	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	815	2,620	4,678	12,622	1,173	601	901	620	846
2	1,533	2,620	4,678	12,622	1,173	601	901	620	1,394
3	1,533	2,620	4,678	12,622	1,460	601	901	620	1,865

**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.

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

Shipped-Loose Accessories are found on page 42 • 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.

MEDIUM PROFILE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KM6H153DDA	19,563	KM6H153FDA	21,144
		KM6H184DDA	20,419	KM6H184FDA	22,068
	2	KM6H311DDA	28,791	KM6H311FDA	31,117
		KM6H374DDA	30,655	KM6H374FDA	33,133
	3	KM6H469DDA	37,969	KM6H469FDA	41,037
		KM6H564DDA	41,149	KM6H564FDA	44,477
4 FPI	1	KM4H110DDA	18,781	KM4H110FDA	20,300
		KM4H143DDA	19,602	KM4H143FDA	21,184
	2	KM4H232DDA	27,640	KM4H232FDA	29,874
		KM4H288DDA	29,432	KM4H288FDA	31,808
	3	KM4H336DDA	36,450	KM4H336FDA	39,393
		KM4H419DDA	39,505	KM4H419FDA	42,697

HOT GAS DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)								
	TXV	EEV ¹	EcoNet 2.0 Control Package	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	815	2,620	4,678	12,622	1,173	601	901	620	846
2	1,533	2,620	4,678	12,622	1,173	601	901	620	1,394
3	1,533	2,620	4,678	12,622	1,460	601	901	620	1,865

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

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.

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

Shipped-Loose Accessories are found on next page • 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.

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	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700
HX-250	105065007	14	5/8	1-3/8	926
HX-350	105065008	16	5/8	1-5/8	953

HEAVY DUTY

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

**BTUH**

Air Defrost	Electric Defrost	Hot Gas Defrost
31,200 - 253,100	33,100 - 227,400	33,100 - 227,400



MODEL NOMENCLATURE

K	H	6	E	109	D	D	A
Brand	Style	Fins Per Inch (FPI)	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	H - Heavy Duty Y - Reverse Connections	6 FPI 4 FPI	A - Air D - Medium Temp Electric E - Low Temp Electric H - Hot Gas 3-Pipe 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 100 = BTUH	D - 230/1/60 E - 208-230/3/60 F - 460/1/60 G - 460/3/60	D - Dual Speed EC	

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



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

HEAVY DUTY

AIR DEFROST CONFIGURABLE BASE MODELS

No. of Fans	DUAL SPEED EC MOTORS - 6 FPI			
	208-230/1/60		460/1/60	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KH6A031DDA	27,064	KH6A031FDA	27,605
	KH6A043DDA	29,728	KH6A043FDA	30,323
	KH6A052DDA	31,159	KH6A052FDA	31,780
2	KH6A063DDA	34,721	KH6A063FDA	35,417
	KH6A087DDA	45,426	KH6A087FDA	46,335
	KH6A105DDA	50,981	KH6A105FDA	52,001
3	KH6A132DDA	54,419	KH6A132FDA	55,508
	KH6A156DDA	72,913	KH6A156FDA	74,373
4	KH6A175DDA	84,658	KH6A175FDA	86,352
	KH6A209DDA	94,181	KH6A209FDA	96,068

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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 Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

Shipped-Loose Accessories are found on page 53 • 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.

HEAVY DUTY

LOW TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6E033EDA	30,745	KH6E033GDA	31,362
		KH6E044EDA	36,709	KH6E044GDA	37,442
		KH6E053EDA	39,691	KH6E053GDA	40,484
	2	KH6E066EDA	47,772	KH6E066GDA	48,728
		KH6E089EDA	61,328	KH6E089GDA	62,553
		KH6E109EDA	73,114	KH6E109GDA	74,576
	3	KH6E134EDA	81,066	KH6E134GDA	82,690
		KH6E163EDA	106,234	KH6E163GDA	108,361
4 FPI	1	KH6E199EDA	121,981	KH6E199GDA	124,422
	2	KH4E035EDA	35,240	KH4E035GDA	35,944
		KH4E044EDA	38,100	KH4E044GDA	38,864
		KH4E071EDA	58,876	KH4E071GDA	60,051
	3	KH4E087EDA	70,189	KH4E087GDA	71,592
		KH4E107EDA	77,826	KH4E107GDA	79,378
	4	KH4E131EDA	101,984	KH4E131GDA	104,022
		KH4E167EDA	117,102	KH4E167GDA	119,441

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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 53 • 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. • Adjustable Defrost Control / Fan Delay Switch is standard on Medium Temp Electric Defrost "D" models.

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

2 Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

HEAVY DUTY

MEDIUM TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6D030EDA	30,745	KH6D030GDA	31,362
		KH6D042EDA	36,709	KH6D042GDA	37,442
		KH6D051EDA	39,691	KH6D051GDA	40,484
	2	KH6D062EDA	47,772	KH6D062GDA	48,728
		KH6D086EDA	61,328	KH6D086GDA	62,553
		KH6D104EDA	73,114	KH6D104GDA	74,576
	3	KH6D130EDA	81,066	KH6D130GDA	82,690
		KH6D155EDA	106,234	KH6D155GDA	108,361
	4	KH6D174EDA	114,107	KH6D174GDA	116,391
		KH6D208EDA	121,981	KH6D208GDA	124,422

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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 53 • 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 Heavy Duty Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

HEAVY DUTY

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS // ELECTRIC DRAIN PAN HEATER			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6G033DDA	30,436	KH6G033FDA	31,048
		KH6G044DDA	36,341	KH6G044FDA	37,069
		KH6G053DDA	39,293	KH6G053FDA	40,079
	2	KH6G066DDA	47,293	KH6G066FDA	48,240
		KH6G089DDA	60,713	KH6G089FDA	61,927
		KH6G109DDA	72,382	KH6G109FDA	73,829
	3	KH6G134DDA	80,258	KH6G134FDA	81,863
		KH6G163DDA	105,171	KH6G163FDA	107,274
	4	KH6G199DDA	120,761	KH6G199FDA	123,173
4 FPI	1	KH4G035DDA	34,887	KH4G035FDA	35,586
		KH4G044DDA	37,720	KH4G044FDA	38,474
	2	KH4G071DDA	58,286	KH4G071FDA	59,451
		KH4G087DDA	69,484	KH4G087FDA	70,876
	3	KH4G107DDA	77,045	KH4G107FDA	78,585
		KH4G131DDA	100,962	KH4G131FDA	102,983
	4	KH4G167DDA	115,928	KH4G167FDA	118,249

**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.

HEAVY DUTY

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS // HOT GAS DRAIN PAN HEATER			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6L033DDA	30,895	KH6L033FDA	31,513
		KH6L044DDA	36,886	KH6L044FDA	37,626
		KH6L053DDA	39,886	KH6L053FDA	40,683
	2	KH6L066DDA	48,004	KH6L066FDA	48,964
		KH6L089DDA	61,626	KH6L089FDA	62,857
		KH6L109DDA	73,466	KH6L109FDA	74,936
	3	KH6L134DDA	81,461	KH6L134FDA	83,091
		KH6L163DDA	106,748	KH6L163FDA	108,883
	4	KH6L199DDA	122,571	KH6L199FDA	125,021
4 FPI	1	KH4L035DDA	35,411	KH4L035FDA	36,120
		KH4L044DDA	38,287	KH4L044FDA	39,054
	2	KH4L071DDA	59,162	KH4L071FDA	60,341
		KH4L087DDA	70,527	KH4L087FDA	71,939
	3	KH4L107DDA	78,204	KH4L107FDA	79,764
		KH4L131DDA	102,478	KH4L131FDA	104,527
	4	KH4L167DDA	117,670	KH4L167FDA	120,023

**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.

HEAVY DUTY

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,625	2,777	9,592	13,379	1,243	637	955	1,323
2	2,477	2,777	9,592	13,379	1,548	637	955	1,759
3	2,477	3,836	9,592	14,438	1,548	637	955	2,263
4	2,477	3,836	9,592	14,670	1,779	637	955	2,600

Shipped-Loose Accessories are found on page 53 • 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.

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.

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

HEAVY DUTY

HOT GAS DEFROST // 3-PIPE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS // ELECTRIC DRAIN PAN HEATER			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6H033DDA	30,436	KH6H033FDA	31,048
		KH6H044DDA	36,341	KH6H044FDA	37,069
		KH6H053DDA	39,293	KH6H053FDA	40,079
	2	KH6H066DDA	47,293	KH6H066FDA	48,240
		KH6H089DDA	60,713	KH6H089FDA	61,927
		KH6H109DDA	72,382	KH6H109FDA	73,829
	3	KH6H134DDA	80,258	KH6H134FDA	81,863
		KH6H163DDA	105,171	KH6H163FDA	107,274
	4	KH6H199DDA	120,761	KH6H199FDA	123,173
4 FPI	1	KH4H035DDA	34,887	KH4H035FDA	35,586
		KH4H044DDA	37,720	KH4H044FDA	38,474
	2	KH4H071DDA	58,286	KH4H071FDA	59,451
		KH4H087DDA	69,484	KH4H087FDA	70,876
	3	KH4H107DDA	77,045	KH4H107FDA	78,585
		KH4H131DDA	100,962	KH4H131FDA	102,983
	4	KH4H167DDA	115,928	KH4H167FDA	118,249

**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.

HEAVY DUTY

HOT GAS DEFROST // 3-PIPE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		DUAL SPEED EC MOTORS // HOT GAS DRAIN PAN HEATER			
		208-230/1/60		460/1/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KH6K033DDA	30,895	KH6K033FDA	31,513
		KH6K044DDA	36,886	KH6K044FDA	37,626
		KH6K053DDA	39,886	KH6K053FDA	40,683
	2	KH6K066DDA	48,004	KH6K066FDA	48,964
		KH6K089DDA	61,626	KH6K089FDA	62,857
		KH6K109DDA	73,466	KH6K109FDA	74,936
	3	KH6K134DDA	81,461	KH6K134FDA	83,091
		KH6K163DDA	106,748	KH6K163FDA	108,883
	4	KH6K199DDA	122,571	KH6K199FDA	125,021
4 FPI	1	KH4K035DDA	35,411	KH4K035FDA	36,120
		KH4K044DDA	38,287	KH4K044FDA	39,054
	2	KH4K071DDA	59,162	KH4K071FDA	60,341
		KH4K087DDA	70,527	KH4K087FDA	71,939
	3	KH4K107DDA	78,204	KH4K107FDA	79,764
		KH4K131DDA	102,478	KH4K131FDA	104,527
	4	KH4K167DDA	117,670	KH4K167FDA	120,023

**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.

HEAVY DUTY

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,723	2,944	10,168	14,182	1,318	675	1,012	1,402
2	2,626	2,944	10,168	14,182	1,641	675	1,012	1,865
3	2,626	4,066	10,168	15,304	1,641	675	1,012	2,399
4	2,626	4,066	10,168	15,550	1,886	675	1,012	2,756

Shipped-Loose Accessories are found on next page • 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.

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	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700
HX-250	105065007	14	5/8	1-3/8	926
HX-350	105065008	16	5/8	1-5/8	953
HX-500	105065009	17	7/8	2-1/8	1,512
LHX-15	105065010	30	7/8	2-1/8	4,149
LHX-20	105065011	30	1-1/8	2-1/8	4,437
LHX-25	105065012	30	1-1/8	2-5/8	4,752

WAREHOUSE

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


BTUH

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

MODEL NOMENCLATURE

K	W	6	E	143	E	T	A
Brand	Style	Fins Per Inch (FPI)	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K - Kramer	W - Warehouse Z - Reverse Connections	6 FPI 4 FPI	A - Air D - Medium Temp Electric E - Low Temp 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 100 = BTUH	E - 208-230/3/60 G - 460/3/60	T - 3 Phase H - 3 Phase + High-Static (Pressure Prop) Fan Blades	

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

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

WAREHOUSE

AIR DEFROST CONFIGURABLE BASE MODELS

No. of Fans	THREE-PHASE MOTOR // STANDARD FAN // 6 FPI			
	208-230/3/60		460/3/60	
	Model No.	List Price (\$US)	Model No.	List Price (\$US)
1	KW6A034ETA	20,048	KW6A034GTA	20,450
	KW6A047ETA	22,020	KW6A047GTA	22,460
	KW6A058ETA	23,077	KW6A058GTA	23,538
2	KW6A069ETA	25,718	KW6A069GTA	26,233
	KW6A094ETA	36,342	KW6A094GTA	37,069
	KW6A117ETA	40,784	KW6A117GTA	41,601
3	KW6A143ETA	43,536	KW6A143GTA	44,406
	KW6A176ETA	58,332	KW6A176GTA	59,500
4	KW6A190ETA	67,726	KW6A190GTA	69,083
	KW6A234ETA	75,345	KW6A234GTA	76,852

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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

2 Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

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.

WAREHOUSE

LOW TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6E036ETA	22,777	KW6E036GTA	23,229
		KW6E047ETA	27,193	KW6E047GTA	27,735
		KW6E059ETA	29,400	KW6E059GTA	29,988
	2	KW6E072ETA	39,809	KW6E072GTA	40,605
		KW6E096ETA	51,108	KW6E096GTA	52,129
		KW6E120ETA	60,929	KW6E120GTA	62,147
	3	KW6E143ETA	67,556	KW6E143GTA	68,910
		KW6E179ETA	92,378	KW6E179GTA	94,223
	4	KW6E216ETA	106,069	KW6E216GTA	108,192
4 FPI	1	KW4E038ETA	26,103	KW4E038GTA	26,625
		KW4E048ETA	28,224	KW4E048GTA	28,790
	2	KW4E077ETA	49,063	KW4E077GTA	50,045
		KW4E097ETA	58,491	KW4E097GTA	59,659
	3	KW4E115ETA	64,855	KW4E115GTA	66,152
		KW4E145ETA	88,683	KW4E145GTA	90,456
	4	KW4E182ETA	101,826	KW4E182GTA	103,863

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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 Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

WAREHOUSE

MEDIUM TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6D033ETA	22,777	KW6D033GTA	23,229
		KW6D046ETA	27,193	KW6D046GTA	27,735
		KW6D057ETA	29,400	KW6D057GTA	29,988
	2	KW6D068ETA	39,809	KW6D068GTA	40,605
		KW6D093ETA	51,108	KW6D093GTA	52,129
		KW6D116ETA	60,929	KW6D116GTA	62,147
	3	KW6D142ETA	67,556	KW6D142GTA	68,910
		KW6D175ETA	92,378	KW6D175GTA	94,223
	4	KW6D189ETA	99,223	KW6D189GTA	101,208
		KW6D233ETA	106,069	KW6D233GTA	108,192
4 FPI	1	KW4D029ETA	21,864	KW4D029GTA	22,298
		KW4D041ETA	26,103	KW4D041GTA	26,623
		KW4D050ETA	28,220	KW4D050GTA	28,787
	2	KW4D060ETA	38,214	KW4D060GTA	38,977
		KW4D082ETA	49,059	KW4D082GTA	50,039
		KW4D103ETA	58,486	KW4D103GTA	59,656
	3	KW4D126ETA	64,848	KW4D126GTA	66,147
		KW4D155ETA	88,673	KW4D155GTA	90,446
	4	KW4D167ETA	95,245	KW4D167GTA	97,150
		KW4D206ETA	101,815	KW4D206GTA	103,854

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

See notes on previous page.

WAREHOUSE

ELECTRIC DEFROST CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6E036EHA	25,280	KW6E036GHA	25,787
		KW6E047EHA	30,182	KW6E047GHA	30,786
		KW6E059EHA	32,636	KW6E059GHA	33,287
	2	KW6E072EHA	44,189	KW6E072GHA	45,070
		KW6E096EHA	56,729	KW6E096GHA	57,864
		KW6E120EHA	67,630	KW6E120GHA	68,983
	3	KW6E143EHA	74,988	KW6E143GHA	76,489
		KW6E179EHA	102,536	KW6E179GHA	104,588
	4	KW6E216EHA	117,737	KW6E216GHA	120,090
4 FPI	1	KW4E038EHA	28,973	KW4E038GHA	29,552
		KW4E048EHA	31,329	KW4E048GHA	31,955
	2	KW4E077EHA	54,462	KW4E077GHA	55,549
		KW4E097EHA	64,925	KW4E097GHA	66,222
	3	KW4E115EHA	71,988	KW4E115GHA	73,427
		KW4E145EHA	98,435	KW4E145GHA	100,405
	4	KW4E182EHA	113,026	KW4E182GHA	115,288

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet 1.0 Control Package **no longer available**

# OF FANS	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)							
	TXV	EEV ¹	EcoNet 2.0 Control Package ²	KE2 Evaporator Defrost Control Package	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan
1	1,446	2,472	8,537	11,908	1,107	567	850	1,177
2	2,205	2,472	8,537	11,908	1,377	567	850	1,565
3	2,205	3,414	8,537	12,850	1,377	567	850	2,014
4	2,205	3,414	8,537	13,057	1,583	567	850	2,314

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 Warehouse Unit Coolers with EcoNet will also have a Thru-the-Door Disconnect

KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (EEV).

WAREHOUSE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN // ELECTRIC DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6G036ETA	22,548	KW6G036GTA	22,997
		KW6G047ETA	26,920	KW6G047GTA	27,458
		KW6G059ETA	29,104	KW6G059GTA	29,688
	2	KW6G072ETA	39,411	KW6G072GTA	40,201
		KW6G096ETA	50,595	KW6G096GTA	51,605
		KW6G120ETA	60,317	KW6G120GTA	61,525
	3	KW6G143ETA	66,882	KW6G143GTA	68,218
		KW6G179ETA	91,452	KW6G179GTA	93,284
	4	KW6G216ETA	105,007	KW6G216GTA	107,107
4 FPI	1	KW4G038ETA	25,845	KW4G038GTA	26,362
		KW4G048ETA	27,943	KW4G048GTA	28,500
	2	KW4G077ETA	48,572	KW4G077GTA	49,544
		KW4G097ETA	57,906	KW4G097GTA	59,063
	3	KW4G115ETA	64,206	KW4G115GTA	65,490
		KW4G145ETA	87,796	KW4G145GTA	89,553
	4	KW4G182ETA	100,806	KW4G182GTA	102,822

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

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN // HOT GAS DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6L036ETA	22,883	KW6L036GTA	23,342
		KW6L047ETA	27,319	KW6L047GTA	27,871
		KW6L059ETA	29,545	KW6L059GTA	30,134
	2	KW6L072ETA	40,004	KW6L072GTA	40,807
		KW6L096ETA	51,354	KW6L096GTA	52,383
		KW6L120ETA	61,223	KW6L120GTA	62,451
	3	KW6L143ETA	67,888	KW6L143GTA	69,246
		KW6L179ETA	92,828	KW6L179GTA	94,681
	4	KW6L216ETA	106,583	KW6L216GTA	108,715
4 FPI	1	KW4L038ETA	26,230	KW4L038GTA	26,755
		KW4L048ETA	28,357	KW4L048GTA	28,927
	2	KW4L077ETA	49,301	KW4L077GTA	50,287
		KW4L097ETA	58,776	KW4L097GTA	59,951
	3	KW4L115ETA	65,171	KW4L115GTA	66,474
		KW4L145ETA	89,112	KW4L145GTA	90,894
	4	KW4L182ETA	102,320	KW4L182GTA	104,365

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

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6G036EHA	25,026	KW6G036GHA	25,526
		KW6G047EHA	29,878	KW6G047GHA	30,478
		KW6G059EHA	32,308	KW6G059GHA	32,952
	2	KW6G072EHA	43,746	KW6G072GHA	44,622
		KW6G096EHA	56,162	KW6G096GHA	57,285
		KW6G120EHA	66,955	KW6G120GHA	68,294
	3	KW6G143EHA	74,239	KW6G143GHA	75,725
		KW6G179EHA	101,514	KW6G179GHA	103,546
	4	KW6G216EHA	116,559	KW6G216GHA	118,889
4 FPI	1	KW4G038EHA	28,686	KW4G038GHA	29,259
		KW4G048EHA	31,015	KW4G048GHA	31,636
	2	KW4G077EHA	53,916	KW4G077GHA	54,994
		KW4G097EHA	64,276	KW4G097GHA	65,562
	3	KW4G115EHA	71,270	KW4G115GHA	72,695
		KW4G145EHA	97,453	KW4G145GHA	99,403
	4	KW4G182EHA	111,896	KW4G182GHA	114,133

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

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN // HOT GAS DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6L036EHA	25,402	KW6L036GHA	25,911
		KW6L047EHA	30,326	KW6L047GHA	30,937
		KW6L059EHA	32,792	KW6L059GHA	33,448
	2	KW6L072EHA	44,404	KW6L072GHA	45,292
		KW6L096EHA	57,004	KW6L096GHA	58,141
		KW6L120EHA	67,958	KW6L120GHA	69,318
	3	KW6L143EHA	75,352	KW6L143GHA	76,863
		KW6L179EHA	103,037	KW6L179GHA	105,098
	4	KW6L216EHA	118,308	KW6L216GHA	120,675
4 FPI	1	KW4L038EHA	29,118	KW4L038GHA	29,701
		KW4L048EHA	31,479	KW4L048GHA	32,108
	2	KW4L077EHA	54,723	KW4L077GHA	55,821
		KW4L097EHA	65,240	KW4L097GHA	66,546
	3	KW4L115EHA	72,338	KW4L115GHA	73,784
		KW4L145EHA	98,914	KW4L145GHA	100,895
	4	KW4L182EHA	113,573	KW4L182GHA	115,847

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

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6G036EHA	25,026	KW6G036GHA	25,526
		KW6G047EHA	29,878	KW6G047GHA	30,478
		KW6G059EHA	32,308	KW6G059GHA	32,952
	2	KW6G072EHA	43,746	KW6G072GHA	44,622
		KW6G096EHA	56,162	KW6G096GHA	57,285
		KW6G120EHA	66,955	KW6G120GHA	68,294
	3	KW6G143EHA	74,239	KW6G143GHA	75,725
		KW6G179EHA	101,514	KW6G179GHA	103,546
	4	KW6G216EHA	116,559	KW6G216GHA	118,889
4 FPI	1	KW4G038EHA	28,686	KW4G038GHA	29,259
		KW4G048EHA	31,015	KW4G048GHA	31,636
	2	KW4G077EHA	53,916	KW4G077GHA	54,994
		KW4G097EHA	64,276	KW4G097GHA	65,562
	3	KW4G115EHA	71,270	KW4G115GHA	72,695
		KW4G145EHA	97,453	KW4G145GHA	99,403
	4	KW4G182EHA	111,896	KW4G182GHA	114,133

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

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN // ELECTRIC DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6H036ETA	22,548	KW6H036GTA	22,997
		KW6H047ETA	26,920	KW6H047GTA	27,458
		KW6H059ETA	29,104	KW6H059GTA	29,688
	2	KW6H072ETA	39,411	KW6H072GTA	40,201
		KW6H096ETA	50,595	KW6H096GTA	51,605
		KW6H120ETA	60,317	KW6H120GTA	61,525
	3	KW6H143ETA	66,882	KW6H143GTA	68,218
		KW6H179ETA	91,452	KW6H179GTA	93,284
	4	KW6H216ETA	105,007	KW6H216GTA	107,107
4 FPI	1	KW4H038ETA	25,845	KW4H038GTA	26,362
		KW4H048ETA	27,943	KW4H048GTA	28,500
	2	KW4H077ETA	48,572	KW4H077GTA	49,544
		KW4H097ETA	57,906	KW4H097GTA	59,063
	3	KW4H115ETA	64,206	KW4H115GTA	65,490
		KW4H145ETA	87,796	KW4H145GTA	89,553
	4	KW4H182ETA	100,806	KW4H182GTA	102,822

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

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // STANDARD FAN // HOT GAS DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6K036ETA	22,883	KW6K036GTA	23,342
		KW6K047ETA	27,319	KW6K047GTA	27,871
		KW6K059ETA	29,545	KW6K059GTA	30,134
	2	KW6K072ETA	40,004	KW6K072GTA	40,807
		KW6K096ETA	51,354	KW6K096GTA	52,383
		KW6K120ETA	61,223	KW6K120GTA	62,451
	3	KW6K143ETA	67,888	KW6K143GTA	69,246
		KW6K179ETA	92,828	KW6K179GTA	94,681
	4	KW6K216ETA	106,583	KW6K216GTA	108,715
4 FPI	1	KW4K038ETA	26,230	KW4K038GTA	26,755
		KW4K048ETA	28,357	KW4K048GTA	28,927
	2	KW4K077ETA	49,301	KW4K077GTA	50,287
		KW4K097ETA	58,776	KW4K097GTA	59,951
	3	KW4K115ETA	65,171	KW4K115GTA	66,474
		KW4K145ETA	89,112	KW4K145GTA	90,894
	4	KW4K182ETA	102,320	KW4K182GTA	104,365

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

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN // ELECTRIC DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6H036EHA	25,026	KW6H036GHA	25,526
		KW6H047EHA	29,878	KW6H047GHA	30,478
		KW6H059EHA	32,308	KW6H059GHA	32,952
	2	KW6H072EHA	43,746	KW6H072GHA	44,622
		KW6H096EHA	56,162	KW6H096GHA	57,285
		KW6H120EHA	66,955	KW6H120GHA	68,294
	3	KW6H143EHA	74,239	KW6H143GHA	75,725
		KW6H179EHA	101,514	KW6H179GHA	103,546
	4	KW6H216EHA	116,559	KW6H216GHA	118,889
4 FPI	1	KW4H038EHA	28,686	KW4H038GHA	29,259
		KW4H048EHA	31,015	KW4H048GHA	31,636
	2	KW4H077EHA	53,916	KW4H077GHA	54,994
		KW4H097EHA	64,276	KW4H097GHA	65,562
	3	KW4H115EHA	71,270	KW4H115GHA	72,695
		KW4H145EHA	97,453	KW4H145GHA	99,403
	4	KW4H182EHA	111,896	KW4H182GHA	114,133

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

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

HOT GAS DEFROST // 3-PIPE CONFIGURABLE BASE MODELS

No. of Fans		THREE-PHASE MOTOR // HIGH-STATIC FAN // HOT GAS DRAIN PAN HEATER			
		208-230/3/60		460/3/60	
		Model No.	List Price (\$US)	Model No.	List Price (\$US)
6 FPI	1	KW6K036EHA	25,402	KW6K036GHA	25,911
		KW6K047EHA	30,326	KW6K047GHA	30,937
		KW6K059EHA	32,792	KW6K059GHA	33,448
	2	KW6K072EHA	44,404	KW6K072GHA	45,292
		KW6K096EHA	57,004	KW6K096GHA	58,141
		KW6K120EHA	67,958	KW6K120GHA	69,318
	3	KW6K143EHA	75,352	KW6K143GHA	76,863
		KW6K179EHA	103,037	KW6K179GHA	105,098
	4	KW6K216EHA	118,308	KW6K216GHA	120,675
4 FPI	1	KW4K038EHA	29,118	KW4K038GHA	29,701
		KW4K048EHA	31,479	KW4K048GHA	32,108
	2	KW4K077EHA	54,723	KW4K077GHA	55,821
		KW4K097EHA	65,240	KW4K097GHA	66,546
	3	KW4K115EHA	72,338	KW4K115GHA	73,784
		KW4K145EHA	98,914	KW4K145GHA	100,895
	4	KW4K182EHA	113,573	KW4K182GHA	115,847

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

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	FACTORY MOUNTED OPTIONS // LIST PRICE ADDER (\$US)						
	TXV	EEV ¹	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control / Fan Delay Switch	Insulated Drain Pan
1	1,446	2,472	1,107	567	850	585	1,177
2	2,205	2,472	1,377	567	850	585	1,565
3	2,205	3,414	1,377	567	850	585	2,014
4	2,205	3,414	1,583	567	850	585	2,314

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.

WAREHOUSE

Shipped Loose Accessories

CONTROLS & THERMOSTATS

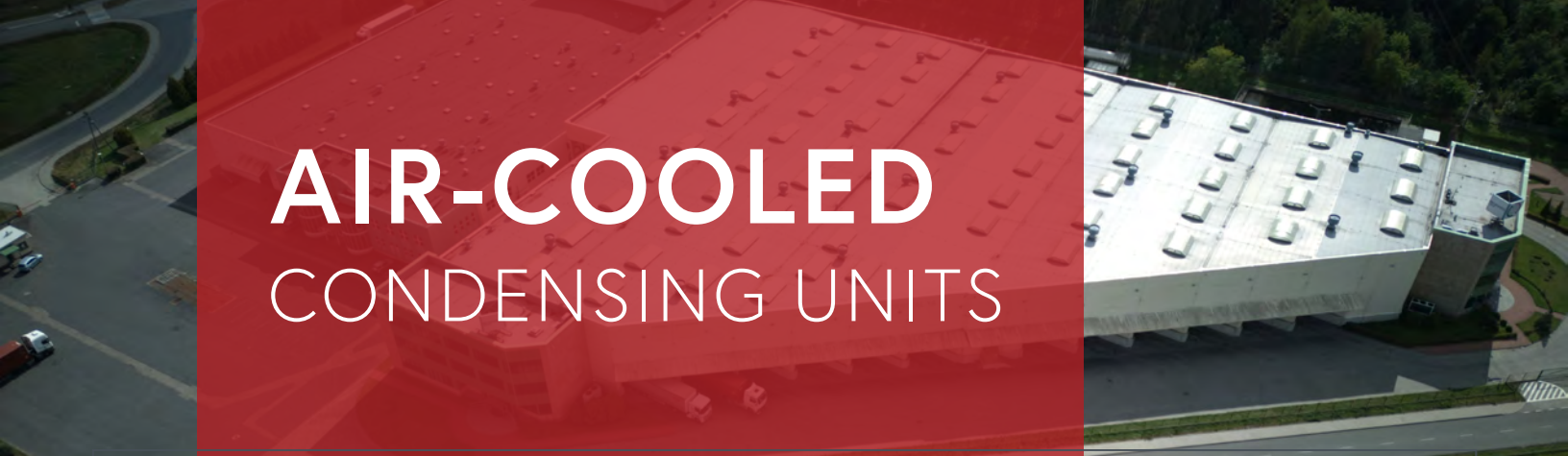
Option Name	Option Description	List Price (\$US)
EcoNet Command Center	EcoNet Command Center for EcoNet Enabled Unit Coolers	1,635
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	533
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	688

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,907
	16 to 25 Tons	2,738
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	625
	4 to 9 Tons	890
	10 to 30 Tons	1,566
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	527
	4 thru 8 HP	589
	9 thru 10 HP	855
	12 thru 15 HP	1,050
	22 HP	1,341

HEAT EXCHANGERS

Part No.	Model No.	Length (in)	Liquid Line (in)	Suction Line (in)	List Price (\$US)
HX-25	105065001	12	1/4	1/2	296
HX-50	105065003	13	3/8	5/8	347
HX-75	105065004	14	3/8	7/8	475
HX-100	105065005	14	3/8	1-1/8	605
HX-150	105065006	14	1/2	1-1/8	700
HX-250	105065007	14	5/8	1-3/8	926
HX-350	105065008	16	5/8	1-5/8	953
HX-500	105065009	17	7/8	2-1/8	1,512
LHX-15	105065010	30	7/8	2-1/8	4,149
LHX-20	105065011	30	1-1/8	2-1/8	4,437
LHX-25	105065012	30	1-1/8	2-5/8	4,752



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.

NEXT-GEN MINICON

1/2 TO 6 HP



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

MODEL NOMENCLATURE

K	F	H	150	E	4S	D	A
Brand	Style	Compressor	Horsepower	Temperature	Refrigerant	Voltage	Vintage ¹
K - Kramer	E - Center Mount	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	A B

PRE-CONFIGURATION CODE²

NT

Pre-Assembly
Code

NT - No Defrost Timer /Kit³

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.

Continued on next page

NEXT-GEN MINICON

1/2 TO 6 HP



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

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

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/1/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KFH055E4SDB	Air Defrost Timer	12,928	217
		0.75	RST55C1E	KFH080E4SDB	Air Defrost Timer	13,037	217
		1.00	RST70C1E	KFH100E4SDB	Air Defrost Timer	14,504	239
	FM2	1.25	RST97C1E	KFH125E4SDB	Air Defrost Timer	15,191	239

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 No.	208-230/1/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KBH055E4SDB	Air Defrost Timer	12,112	217
		0.75	RST55C1E	KBH080E4SDB	Air Defrost Timer	12,271	217
		1.00	RST70C1E	KBH100E4SDB	Air Defrost Timer	13,602	239
	FM2	1.25	RST97C1E	KBH125E4SDB	Air Defrost Timer	14,265	239

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 No.	208-230/1/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	List Price (\$US)	
EXTENDED MEDIUM TEMP	FM1	0.50	RST45C1E	KFH055E4SDBNT	12,026	217
		0.75	RST55C1E	KFH080E4SDBNT	12,135	217
		1.00	RST70C1E	KFH100E4SDBNT	13,602	239
	FM2	1.25	RST97C1E	KFH125E4SDBNT	14,289	239

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KFH100E4SEB	Air Defrost Timer	14,341	239
	FM2	1.25	RST97C1E	KFH125E4SEB	Air Defrost Timer	15,020	239

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 No.	208-230/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KBH100E4SEB	Air Defrost Timer	13,433	239
	FM2	1.25	RST97C1E	KBH125E4SEB	Air Defrost Timer	14,130	239

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 No.	208-230/3/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	List Price (\$US)	
EXT. MED TEMP	FM1	1.00	RST70C1E	KFH100E4SEBNT	13,439	239
	FM2	1.25	RST97C1E	KFH125E4SEBNT	14,118	239

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/1/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SDA	Air Defrost Timer	13,460	430	404
		0.75	ZB07KAE	KFO080M4SDA	Air Defrost Timer	14,214	430	404
		1.0	ZB08KAE	KFO100M4SDA	Air Defrost Timer	14,479	430	404
EXTENDED MEDIUM TEMPERATURE		1.0	ZS09KAE	KFO130E4SDA	Air Defrost Timer	15,330	430	404
	FM2	1.25	ZS11KAE	KFO150E4SDA	Air Defrost Timer	15,433	859	404
		1.5	ZS13KAE	KFO180E4SDA	Air Defrost Timer	17,072	859	404
	FM3	2.0	ZS15KAE	KFO200E4SDA	Air Defrost Timer	17,089	859	404
		2.5	ZS19KAE	KFO250E4SDA	Air Defrost Timer	17,415	859	404
	FM4	2.8	ZS20KAE	KFO280E4SDA	Air Defrost Timer	18,386	859	404
		3.0	ZS21KAE	KFO300E4SDA	Air Defrost Timer	18,637	859	530
		3.5	ZS26KAE	KFO350E4SDA	Air Defrost Timer	20,472	859	530
		4.0	ZS29KAE	KFO400E4SDA	Air Defrost Timer	20,753	859	549
		4.5	ZS33KAE	KFO450E4SDA	Air Defrost Timer	22,395	859	549
		5.0	ZS38K4E	KFO500E4SDA	Air Defrost Timer	23,430	859	568
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SDA	ED-5	15,514	430	404
		1.3	ZF04KAE	KFO130L4SDA	ED-5	16,188	430	404
		1.5	ZF05KAE	KFO160L4SDA	ED-5	16,915	430	404
	FM2	2.3	ZF07KAE	KFO230L4SDA	ED-7	17,947	859	404
	FM3	2.5	ZF08K4E	KFO250L4SDA	ED-7	19,381	859	404
		3.0	ZF09K4E	KFO300L4SDA	ED-7	20,074	859	530
		3.5	ZF11K4E	KFO350L4SDA	ED-10	22,179	859	530
	FM4	4.0	ZF13K4E	KFO400L4SDB	ED-10	24,991	-	549
		5.0	ZF15K4E	KFO500L4SDB	ED-10	25,824	-	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/1/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KBO060M4SDB	Air Defrost Timer	12,790	430	404
		0.75	ZB07KAE	KBO080M4SDB	Air Defrost Timer	13,544	430	404
		1.0	ZB08KAE	KBO100M4SDB	Air Defrost Timer	13,803	430	404
EXTENDED MEDIUM TEMPERATURE	FM1	1.0	ZS09KAE	KBO130E4SDB	Air Defrost Timer	14,574	430	404
		1.25	ZS11KAE	KBO150E4SDA	Air Defrost Timer	14,687	859	404
	FM2	1.5	ZS13KAE	KBO180E4SDA	Air Defrost Timer	15,987	859	404
		2.0	ZS15KAE	KBO200E4SDA	Air Defrost Timer	16,272	859	404
	FM3	2.5	ZS19KAE	KBO250E4SDA	Air Defrost Timer	16,587	859	404
		2.8	ZS20KAE	KBO280E4SDB	Air Defrost Timer	17,610	859	404
	FM4	3.0	ZS21KAE	KBO300E4SDB	Air Defrost Timer	17,944	859	530
		3.5	ZS26KAE	KBO350E4SDB	Air Defrost Timer	19,656	859	530
		4.0	ZS29KAE	KBO400E4SDB	Air Defrost Timer	19,959	859	549
		4.5	ZS33KAE	KBO450E4SDB	Air Defrost Timer	21,639	859	549
		5.0	ZS38K4E	KBO500E4SDB	Air Defrost Timer	22,733	859	568
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KBO100L4SDB	ED-5	14,674	430	404
		1.3	ZF04KAE	KBO130L4SDB	ED-5	15,405	430	404
		1.5	ZF05KAE	KBO160L4SDB	ED-5	16,170	430	404
	FM2	2.3	ZF07KAE	KBO230L4SDA	ED-7	17,245	859	404
	FM3	2.5	ZF08K4E	KBO250L4SDA	ED-7	18,709	859	404
		3.0	ZF09K4E	KBO300L4SDA	ED-7	19,850	859	530
		3.5	ZF11K4E	KBO350L4SDA	ED-10	21,441	859	530
	FM4	4.0	ZF13K4E	KBO400L4SDB	ED-10	24,317	-	549
		5.0	ZF15K4E	KBO500L4SDB	ED-10	25,037	-	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/1/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	List Price (\$US)	
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SDANT	12,558	404
		0.75	ZB07KAE	KFO080M4SDANT	13,312	404
		1	ZB08KAE	KFO100M4SDANT	13,577	404
EXTENDED MEDIUM TEMPERATURE	FM2	1	ZS09KAE	KFO130E4SDANT	14,428	404
		1.25	ZS11KAE	KFO150E4SDANT	14,531	404
	FM3	1.5	ZS13KAE	KFO180E4SDANT	16,170	404
		2	ZS15KAE	KFO200E4SDANT	16,187	404
	FM4	2.5	ZS19KAE	KFO250E4SDANT	16,513	404
		2.8	ZS20KAE	KFO280E4SDANT	17,484	404
		3	ZS21KAE	KFO300E4SDANT	17,735	530
		3.5	ZS26KAE	KFO350E4SDANT	19,570	530
		4	ZS29KAE	KFO400E4SDANT	19,851	549
		4.5	ZS33KAE	KFO450E4SDANT	21,493	549
		5	ZS38K4E	KFO500E4SDANT	22,528	568
LOW TEMPERATURE	FM1	1	ZF03KAE	KFO100L4SDANT	14,428	404
		1.3	ZF04KAE	KFO130L4SDANT	15,102	404
		1.5	ZF05KAE	KFO160L4SDANT	15,829	404
	FM2	2.3	ZF07KAE	KFO230L4SDANT	16,861	404
	FM3	2.5	ZF08K4E	KFO250L4SDANT	18,295	404
		3	ZF09K4E	KFO300L4SDANT	18,988	530
		3.5	ZF11K4E	KFO350L4SDANT	21,093	530
	FM4	4	ZF13K4E	KFO400L4SDBNT	23,905	549
		5	ZF15K4E	KFO500L4SDBNT	24,738	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/3/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SEA	Air Defrost Timer	13,620	413	404
		0.75	ZB07KAE	KFO080M4SEA	Air Defrost Timer	14,588	413	404
		1.0	ZB08KAE	KFO100M4SEA	Air Defrost Timer	14,761	413	404
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SEA	Air Defrost Timer	15,285	413	404
		1.25	ZS11KAE	KFO150E4SEA	Air Defrost Timer	15,537	826	404
		1.5	ZS13KAE	KFO180E4SEA	Air Defrost Timer	16,790	826	404
	FM3	2.0	ZS15KAE	KFO200E4SEA	Air Defrost Timer	17,207	826	404
		2.5	ZS19KAE	KFO250E4SEA	Air Defrost Timer	17,639	826	404
	FM4	2.8	ZS20KAE	KFO280E4SEA	Air Defrost Timer	18,666	826	404
		3.0	ZS21KAE	KFO300E4SEA	Air Defrost Timer	18,961	826	530
		3.5	ZS26KAE	KFO350E4SEA	Air Defrost Timer	20,793	826	530
		4.0	ZS29KAE	KFO400E4SEA	Air Defrost Timer	21,372	826	549
		4.5	ZS33KAE	KFO450E4SEA	Air Defrost Timer	21,950	826	549
		5.0	ZS38K4E	KFO500E4SEA	Air Defrost Timer	23,691	826	568
		6.0	ZS45K4E	KFO600E4SEA	Air Defrost Timer	26,287	826	568
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SEA	ED-5	15,720	413	404
		1.3	ZF04KAE	KFO130L4SEA	ED-5	16,407	413	404
		1.5	ZF05KAE	KFO160L4SEA	ED-5	17,143	413	404
	FM2	2.3	ZF07KAE	KFO230L4SEA	ED-5	18,192	826	404
	FM3	2.5	ZF08K4E	KFO250L4SEA	ED-6	19,728	826	404
		3.0	ZF09K4E	KFO300L4SEA	ED-6	20,447	826	530
		3.5	ZF11K4E	KFO350L4SEA	ED-7	22,431	826	530
	FM4	4.0	ZF13K4E	KFO400L4SEB	ED-7	25,242	-	549
		5.0	ZF15K4E	KFO500L4SEB	ED-11	25,964	-	568
		6.0	ZF18K4E	KFO600L4SEB	ED-11	27,471	-	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/3/60			EC Motor List Price Adder (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)		
MED TEMP	FM1	0.5	ZB06KAE	KBO060M4SEB	Air Defrost Timer	12,944	413	404
		0.75	ZB07KAE	KBO080M4SEB	Air Defrost Timer	13,917	413	404
		1.0	ZB08KAE	KBO100M4SEB	Air Defrost Timer	14,090	413	404
EXTENDED MEDIUM TEMPERATURE		1.0	ZS09KAE	KBO130E4SEB	Air Defrost Timer	14,594	413	404
	FM2	1.25	ZS11KAE	KBO150E4SEA	Air Defrost Timer	14,839	826	404
		1.5	ZS13KAE	KBO180E4SEA	Air Defrost Timer	15,935	826	404
	FM3	2.0	ZS15KAE	KBO200E4SEA	Air Defrost Timer	16,385	826	404
		2.5	ZS19KAE	KBO250E4SEA	Air Defrost Timer	16,833	826	404
	FM4	2.8	ZS20KAE	KBO280E4SEB	Air Defrost Timer	17,891	826	404
		3.0	ZS21KAE	KBO300E4SEB	Air Defrost Timer	18,247	826	530
		3.5	ZS26KAE	KBO350E4SEB	Air Defrost Timer	19,984	826	530
		4.0	ZS29KAE	KBO400E4SEB	Air Defrost Timer	20,577	826	549
		4.5	ZS33KAE	KBO450E4SEB	Air Defrost Timer	21,169	826	549
		5.0	ZS38K4E	KBO500E4SEB	Air Defrost Timer	22,997	826	568
		6.0	ZS45K4E	KBO600E4SEB	Air Defrost Timer	25,380	826	568
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KBO100L4SEB	ED-5	14,680	413	404
		1.3	ZF04KAE	KBO130L4SEB	ED-5	15,483	413	404
		1.5	ZF05KAE	KBO160L4SEB	ED-5	16,305	413	404
	FM2	2.3	ZF07KAE	KBO230L4SEA	ED-5	17,480	826	404
	FM3	2.5	ZF08K4E	KBO250L4SEA	ED-6	19,059	826	404
		3.0	ZF09K4E	KBO300L4SEA	ED-6	19,776	826	530
		3.5	ZF11K4E	KBO350L4SEA	ED-7	21,758	826	530
	FM4	4.0	ZF13K4E	KBO400L4SEB	ED-7	24,571	-	549
		5.0	ZF15K4E	KBO500L4SEB	ED-11	25,292	-	568
		6.0	ZF18K4E	KBO600L4SEB	ED-11	26,801	-	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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

NEXT-GEN MINI-CON • 1/2 TO 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 No.	208-230/3/60		4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	List Price (\$US)	
MED TEMP	FM1	0.5	ZB06KAE	KFO060M4SEANT	12,718	404
		0.75	ZB07KAE	KFO080M4SEANT	13,686	404
		1.0	ZB08KAE	KFO100M4SEANT	13,859	404
EXTENDED MEDIUM TEMPERATURE	FM2	1.0	ZS09KAE	KFO130E4SEANT	14,383	404
		1.25	ZS11KAE	KFO150E4SEANT	14,635	404
		1.5	ZS13KAE	KFO180E4SEANT	15,888	404
	FM3	2.0	ZS15KAE	KFO200E4SEANT	16,305	404
		2.5	ZS19KAE	KFO250E4SEANT	16,737	404
	FM4	2.8	ZS20KAE	KFO280E4SEANT	17,764	404
		3.0	ZS21KAE	KFO300E4SEANT	18,059	530
		3.5	ZS26KAE	KFO350E4SEANT	19,891	530
		4.0	ZS29KAE	KFO400E4SEANT	20,470	549
		4.5	ZS33KAE	KFO450E4SEANT	21,048	549
		5.0	ZS38K4E	KFO500E4SEANT	22,789	568
		6.0	ZS45K4E	KFO600E4SEANT	25,385	568
LOW TEMPERATURE	FM1	1.0	ZF03KAE	KFO100L4SEANT	14,634	404
		1.3	ZF04KAE	KFO130L4SEANT	15,321	404
		1.5	ZF05KAE	KFO160L4SEANT	16,057	404
	FM2	2.3	ZF07KAE	KFO230L4SEANT	17,106	404
	FM3	2.5	ZF08K4E	KFO250L4SEANT	18,642	404
		3.0	ZF09K4E	KFO300L4SEANT	19,361	530
		3.5	ZF11K4E	KFO350L4SEANT	21,345	530
	FM4	4.0	ZF13K4E	KFO400L4SEBNT	24,156	549
		5.0	ZF15K4E	KFO500L4SEBNT	24,878	568
		6.0	ZF18K4E	KFO600L4SEBNT	26,385	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 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 No.	460/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMPERATURE	FM1	1.0	ZS09KAE	KFO130E4SGA	Air Defrost Timer	16,823	404
	FM2	1.25	ZS11KAE	KFO150E4SGA	Air Defrost Timer	17,233	404
		1.5	ZS13KAE	KFO180E4SGA	Air Defrost Timer	18,061	404
	FM3	2.0	ZS15KAE	KFO200E4SGA	Air Defrost Timer	18,266	404
		2.5	ZS19KAE	KFO250E4SGA	Air Defrost Timer	18,524	404
	FM4	2.8	ZS20KAE	KFO280E4SGA	Air Defrost Timer	19,522	404
		3.0	ZS21KAE	KFO300E4SGA	Air Defrost Timer	19,755	530
		3.5	ZS26KAE	KFO350E4SGA	Air Defrost Timer	21,532	530
		4.0	ZS29KAE	KFO400E4SGA	Air Defrost Timer	22,380	549
		4.5	ZS33KAE	KFO450E4SGA	Air Defrost Timer	24,161	549
		5.0	ZS38K4E	KFO500E4SGA	Air Defrost Timer	24,423	568
		6.0	ZS45K4E	KFO600E4SGA	Air Defrost Timer	27,029	568
LOW TEMPERATURE	FM2	2.3	ZF07KAE	KFO230L4SGA	ED-17	19,732	404
	FM3	2.5	ZF08K4E	KFO250L4SGA	ED-17	21,271	404
		3.0	ZF09K4E	KFO300L4SGA	ED-17	21,635	530
		3.5	ZF11K4E	KFO350L4SGA	ED-17	23,167	530
	FM4	4.0	ZF13K4E	KFO400L4SGB	ED-17	25,597	549
		5.0	ZF15K4E	KFO500L4SGB	ED-17	26,392	568
		6.0	ZF18K4E	KFO600L4SGB	ED-17	27,913	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 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 No.	460/3/60			4 Yr Compressor Protection Plan (Net Price Adder \$US)
				Model No.	Standard Defrost Provision(s)	List Price (\$US)	
EXTENDED MEDIUM TEMPERATURE	FM2	1.25	ZS11KAE	KBO150E4SGA	Air Defrost Timer	16,535	404
		1.5	ZS13KAE	KBO180E4SGA	Air Defrost Timer	17,288	404
	FM3	2.0	ZS15KAE	KBO200E4SGA	Air Defrost Timer	17,491	404
		2.5	ZS19KAE	KBO250E4SGA	Air Defrost Timer	17,750	404
	FM4	2.8	ZS20KAE	KBO280E4SGB	Air Defrost Timer	18,784	404
		3.0	ZS21KAE	KBO300E4SGB	Air Defrost Timer	19,083	530
		3.5	ZS26KAE	KBO350E4SGB	Air Defrost Timer	20,751	530
		4.0	ZS29KAE	KBO400E4SGB	Air Defrost Timer	21,658	549
		4.5	ZS33KAE	KBO450E4SGB	Air Defrost Timer	23,208	549
		5.0	ZS38K4E	KBO500E4SGB	Air Defrost Timer	23,681	568
		6.0	ZS45K4E	KBO600E4SGB	Air Defrost Timer	26,246	568
	LOW TEMPERATURE	2.3	ZF07KAE	KBO230L4SGA	ED-17	18,630	404
		2.5	ZF08K4E	KBO250L4SGA	ED-17	20,208	404
		3.0	ZF09K4E	KBO300L4SGA	ED-17	20,868	530
		3.5	ZF11K4E	KBO350L4SGA	ED-17	22,496	530
		4.0	ZF13K4E	KBO400L4SGB	ED-17	24,927	549
		5.0	ZF15K4E	KBO500L4SGB	ED-17	25,719	568
		6.0	ZF18K4E	KBO600L4SGB	ED-17	27,241	568

- Factory Mounted Options are found on pages 82-83 & Shipped-Loose Accessories are found on page 83.
- 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.

NEXT-GEN MINI-CON • 1/2 TO 6 HP

FACTORY INSTALLED OPTIONS // GENERAL

Option Description	Cabinet Size	List Price Adder (\$US)	
		Medium Temp	Low Temp
Crankcase Heater	ALL	STANDARD	
Fixed High/Adjustable Low Pressure Control	ALL	STANDARD	
Adjustable High/Adjustable Low Pressure Control	ALL	633	
Adjustable Head Pressure Control Valve	FM1-FM3	538	
Liquid Line With Components: Sealed Filter	ALL	STANDARD	
Liquid Line Without Components: Pipe Only	FM1	(483)	
	FM2 - FM4	(573)	
Liquid Line with Premium Components: Replaceable Core Filter/Drier ¹	FM4	933	
Suction Line Components: Sealed Filter	FM1	605	
	FM2 - FM4	721	
Suction Line Components: Replaceable Core Filter ¹	FM4	2,122	
Suction Line Accumulator	FM1	934	
	FM2 - FM4	1,441	
Oil Separator	FM4	2,292	
Over-Sized Receiver	FM1	774	
	FM2	922	
	FM3	2,205	
	FM4	2,262	
Compressor Pump-down Switch	ALL	597	
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	ALL	1,264	
Phase Loss Monitor [^]	ALL	2,072	
Copper Fins Or Electro Fin Coated Coil	ALL	CONTACT FACTORY	
Thru The Door - Non - Fused - Disconnect Switch	FM1 - FM2	888	
	FM3 - FM4	1,181	
External Fused Disconnect (Mounted)	FM1 - FM2	999	
	FM3 - FM4	1,841	
Variable Speed EC Motors & Controller	FM1	1,803	1,965
	FM2	2,454	2,674
	FM3	2,738	2,984
	FM4	1,991	2,171

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.

NEXT-GEN MINI-CON • 1/2 TO 6 HP

FACTORY INSTALLED OPTIONS // COMMON DEFROST COMPONENTS

"-" Not Available

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	(902)	-
Standard Defrost Kit (ED5 - ED11)	ALL	-	STANDARD
Substitute Standard Air Defrost Timer For Standard Defrost Kit (ED5-ED11)	ALL	184	-
Remove Standard Defrost Kit	ALL	-	(1,086)

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

^ 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 84-86.

SHIPPED-LOOSE ACCESSORIES

Option Description	Cabinet Size	List Price Adder (\$US)
Crankcase Pressure Regulating Valve	ALL	CONTACT FACTORY
External Fused Disconnect	FM4	1,688
Two-Tiered Stacking Rack	ALL	CONTACT FACTORY
Snow / Hail Guards	FM1	691
	FM2	763
	FM3	827
	FM4	1,012
Snow Legs	ALL	461

NEXT-GEN MINI-CON • 1/2 TO 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			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)	2 - 208-230 4 - 460

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.

NEXT-GEN MINI-CON • 1/2 TO 6 HP

ELECTRIC DEFROST KITS // KIT NUMBERS

Kit No.	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

SINGLE POINT POWER

Amps	List Price (\$US)
30A	650
60A	851

* 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.

NEXT-GEN MINI-CON • 1/2 TO 6 HP

ELECTRIC DEFROST KITS // PRICING

Quantity of Unit Coolers Per System	Description	DEFROST KIT NO.				List Price Adder (Only Available Mounted)
		1 PH. FANS 1 PH. HTRS	1 PH. FANS 3 PH. HTRS	230 V 3 PH. FANS 3 PH. HTRS	460 V 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	-	-	-	1,087
	20 Amps Heater (w/ relay)	ED6-A2	-	-	-	1,087
	25 Amps Heater (w/ relay)	ED7-A2	-	-	-	1,087
	Up to 30 Amps Heater (w/ relay)	ED10-A2	-	-	-	1,087
	30 Amps - Heater (w/ contactors)	-	ED11-B2	-	-	1,087
2	Up to 30 Amps Heater (w/ relay)	ED210-A2	-	-	-	1,184
	30 Amps Heater	ED211-A2	ED211-B2	-	-	1,184
	50 Amps Heater	ED213-A2	ED213-B2	-	-	2,377
	Up to 15 Amps Heaters each (w/ relays)	ED20-A2	-	-	-	3,392
	15 Amps Heaters each	ED21-A2	ED21-B2	-	-	3,392
	25 Amps Heaters each (w/relays)	ED23-A2	-	-	-	3,487
	25 Amps Heaters each (w/contactors)	-	ED23-B2	-	-	3,487
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	-	-	-	1,087
	30 Amps Heater	ED12-A4	ED12-BX	ED12-C2	ED12-C4	2,476
	50 Amps Heater	-	ED14-BX	ED14-C2	ED14-C4	2,898
2	Up to 15 Amps Heaters per Unit Cooler	-	ED22-BX	ED22-C2	ED22-C4	4,166
	25 Amps Heaters per Unit Cooler	-	ED24-BX	ED24-C2	ED24-C4	4,166
NOTE: Defrost Kits are only available factory mounted and cannot be shipped loose.						

NEXT-GEN II

3 TO 22 HP



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

MODEL NOMENCLATURE

K	F	D	S	04	M	4S	E	A
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage	Vintage [^]
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 B

50 Hz available. Contact Factory for additional information.

[^] 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.

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

NEXT-GEN II • 3 TO 22 HP

FLOODED // DISCUS COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	2DC3R53K	04	208-230/3/60	KFDS04M4SEA	41,109	975
				460/3/60	KFDS04M4SGA	43,668	
		2DD3R63K	05	208-230/3/60	KFDS05M4SEA	41,852	975
				460/3/60	KFDS05M4SGA	44,307	
	FD2	2DL3R78K	06	208-230/3/60	KFDS06M4SEA	51,980	1,178
				460/3/60	KFDS06M4SGA	55,595	
		2DA3R89K	07	208-230/3/60	KFDS07M4SEA	53,084	1,178
				460/3/60	KFDS07M4SGA	56,327	
		3DA3R10M	08	208-230/3/60	KFDS08M4SEA	59,529	1,178
				460/3/60	KFDS08M4SGA	63,097	
		3DB3R12M	10	208-230/3/60	KFDS10M4SEA	63,837	1,537
				460/3/60	KFDS10M4SGA	67,138	
	FD3	3DF3R15M	12	208-230/3/60	KFDS12M4SEA	69,151	1,871
				460/3/60	KFDS12M4SGA	71,858	
		3DS3R17M	15	208-230/3/60	KFDS15M4SEA	70,682	2,383
				460/3/60	KFDS15M4SGA	73,068	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

NON-FLOODED // DISCUS COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	2DC3R53K	04	208-230/3/60	KBDS04M4SEB	38,463	975
				460/3/60	KBDS04M4SGB	40,972	
		2DD3R63K	05	208-230/3/60	KBDS05M4SEB	39,187	975
				460/3/60	KBDS05M4SGB	41,599	
	FD2	2DL3R78K	06	208-230/3/60	KBDS06M4SEA	49,125	1,178
				460/3/60	KBDS06M4SGA	52,674	
		2DA3R89K	07	208-230/3/60	KBDS07M4SEA	50,206	1,178
				460/3/60	KBDS07M4SGA	53,392	
		3DA3R10M	08	208-230/3/60	KBDS08M4SEA	56,534	1,178
				460/3/60	KBDS08M4SGA	60,030	
		3DB3R12M	10	208-230/3/60	KBDS10M4SEA	60,759	1,537
				460/3/60	KBDS10M4SGA	63,999	
	FD3	3DF3R15M	12	208-230/3/60	KBDS12M4SEA	65,971	1,871
				460/3/60	KBDS12M4SGA	68,628	
		3DS3R17M	15	208-230/3/60	KBDS15M4SEA	68,813	2,383
				460/3/60	KBDS15M4SGA	71,198	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

FLOODED // DISCUS COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	2DF3F16K	03	208-230/3/60	KFDS03L4SEA	40,021	975
				460/3/60	KFDS03L4SGA	42,794	
		2DL3F20K	04	208-230/3/60	KFDS04L4SEA	43,878	975
				460/3/60	KFDS04L4SGA	46,690	
		2DA3F23K	05	208-230/3/60	KFDS05L4SEA	44,938	975
				460/3/60	KFDS05L4SGA	48,130	
	FD2	3DA3F28K	06	208-230/3/60	KFDS06L4SEA	48,997	1,178
				460/3/60	KFDS06L4SGA	52,218	
		3DB3F33K	08	208-230/3/60	KFDS08L4SEA	54,856	1,178
				460/3/60	KFDS08L4SGA	57,448	
		3DF3F40K	09	208-230/3/60	KFDS09L4SEA	61,382	1,537
				460/3/60	KFDS09L4SGA	65,013	
		3DS3F46K	10	208-230/3/60	KFDS10L4SEA	66,637	1,537
				460/3/60	KFDS10L4SGA	67,788	
	FD3	4DBNF54K	12	208-230/3/60	KFDS12L4SEA	67,959	1,871
				460/3/60	KFDS12L4SGA	69,511	
		4DHNF63K	15	208-230/3/60	KFDS15L4SEA	71,426	2,383
				460/3/60	KFDS15L4SGA	72,563	
		4DJNF76K	22	208-230/3/60	KFDS22L4SEA	80,950	2,936
				460/3/60	KFDS22L4SGA	82,307	

- Factory Mounted Options found on pages 101-102.
- Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

NEXT-GEN II • 3 TO 22 HP

FLOODED // DISCUS COMPRESSOR // LOW TEMPERATURE // PRE-CONFIGURED BASE MODELS

Includes sealed suction line filter, suction accumulator, defrost kit, and liquid Injection / Demand Cooling™

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	2DA3F23K	05	208-230/3/60	KFDS05L4SEALT	54,641	975
				460/3/60	KFDS05L4SGALT	57,568	
	FD2	3DB3F33K	08	208-230/3/60	KFDS08L4SEALT	66,963	1,178
				460/3/60	KFDS08L4SGALT	66,886	
		3DS3F46K	10	208-230/3/60	KFDS10L4SEALT	80,065	1,537
				460/3/60	KFDS10L4SGALT	78,812	
		4DHN63K	15	208-230/3/60	KFDS15L4SEALT	88,085	2,383
				460/3/60	KFDS15L4SGALT	86,818	

- Factory Mounted Options found on pages 101-102.
- Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

NEXT-GEN II • 3 TO 22 HP

NON-FLOODED // DISCUS COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	2DF3F16K	03	208-230/3/60	KBDS03L4SEB	38,150	975
				460/3/60	KBDS03L4SGB	40,927	
		2DL3F20K	04	208-230/3/60	KBDS04L4SEB	42,007	975
				460/3/60	KBDS04L4SGB	44,821	
		2DA3F23K	05	208-230/3/60	KBDS05L4SEB	43,068	975
				460/3/60	KBDS05L4SGB	46,262	
	FD2	3DA3F28K	06	208-230/3/60	KBDS06L4SEA	47,132	1,178
				460/3/60	KBDS06L4SGA	50,352	
		3DB3F33K	08	208-230/3/60	KBDS08L4SEA	52,985	1,178
				460/3/60	KBDS08L4SGA	55,583	
		3DF3F40K	09	208-230/3/60	KBDS09L4SEA	59,515	1,537
				460/3/60	KBDS09L4SGA	63,142	
		3DS3F46K	10	208-230/3/60	KBDS10L4SEA	64,769	1,537
				460/3/60	KBDS10L4SGA	65,920	
		4DBNF54K	12	208-230/3/60	KBDS12L4SEA	66,092	1,871
				460/3/60	KBDS12L4SGA	67,642	
		4DHNF63K	15	208-230/3/60	KBDS15L4SEA	69,563	2,383
				460/3/60	KBDS15L4SGA	70,695	
	FD3	4DJNF76K	22	208-230/3/60	KBDS22L4SEA	79,082	2,936
				460/3/60	KBDS22L4SGA	80,436	

- Factory Mounted Options found on pages 101-102.
- Demand Cooling™ is optional for Low Temp. Discus compressors. It's required for non-R404A refrigerants.

NEXT-GEN II • 3 TO 22 HP

FLOODED // SCROLL COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	ZS29KAE	04	208-230/3/60	KFOS04E4SEA	37,068	549
				460/3/60	KFOS04E4SGA	39,996	
		ZS33KAE	05	208-230/3/60	KFOS05E4SEA	37,728	568
				460/3/60	KFOS05E4SGA	40,601	
		ZS38K4E	06	208-230/3/60	KFOS06E4SEA	42,990	568
				460/3/60	KFOS06E4SGA	46,439	
	FD2	ZS45K4E	07	208-230/3/60	KFOS07E4SEA	43,826	941
				460/3/60	KFOS07E4SGA	47,094	
		ZB58K5E	08	208-230/3/60	KFOS08E4SEA	45,560	941
				460/3/60	KFOS08E4SGA	48,923	
		ZB66K5E	09	208-230/3/60	KFOS09E4SEA	48,081	1,011
				460/3/60	KFOS09E4SGA	51,093	
		ZB76K5E	10	208-230/3/60	KFOS10E4SEA	56,213	1,011
				460/3/60	KFOS10E4SGA	58,350	
	FD3	ZB95K5E	13	208-230/3/60	KFOS13E4SEA	62,256	1,204
				460/3/60	KFOS13E4SGA	62,399	
		ZB114K5E	15	208-230/3/60	KFOS15E4SEA	69,512	1,214
				460/3/60	KFOS15E4SGA	72,686	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

FLOODED // SCROLL COMPRESSOR // MEDIUM TEMPERATURE // PRE-CONFIGURED BASE MODELS

Includes standard electronic timer

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD2	ZS45K4E	07	208-230/3/60	KFOS07E4SEAMT	44,925	941
				460/3/60	KFOS07E4SGAMT	48,193	
	FD2	ZB58K5E	08	208-230/3/60	KFOS08E4SEAMT	46,659	941
				460/3/60	KFOS08E4SGAMT	50,022	
	FD2	ZB76K5E	10	208-230/3/60	KFOS10E4SEAMT	57,312	1,011
				460/3/60	KFOS10E4SGAMT	59,449	
	FD3	ZB114K5E	15	208-230/3/60	KFOS15E4SEAMT	70,611	1,214
				460/3/60	KFOS15E4SGAMT	73,785	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

NON-FLOODED // SCROLL COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	ZS29KAE	04	208-230/3/60	KBOS04E4SEB	35,198	549
				460/3/60	KBOS04E4SGB	38,126	
		ZS33KAE	05	208-230/3/60	KBOS05E4SEB	35,858	568
				460/3/60	KBOS05E4SGB	38,732	
		ZS38K4E	06	208-230/3/60	KBOS06E4SEB	41,121	568
				460/3/60	KBOS06E4SGB	44,568	
	FD2	ZS45K4E	07	208-230/3/60	KBOS07E4SEA	41,958	941
				460/3/60	KBOS07E4SGA	45,225	
		ZB58K5E	08	208-230/3/60	KBOS08E4SEA	42,828	941
				460/3/60	KBOS08E4SGA	46,128	
		ZB66K5E	09	208-230/3/60	KBOS09E4SEA	45,305	1,011
				460/3/60	KBOS09E4SGA	48,255	
		ZB76K5E	10	208-230/3/60	KBOS10E4SEA	53,279	1,011
				460/3/60	KBOS10E4SGA	55,374	
	FD3	ZB95K5E	13	208-230/3/60	KBOS13E4SEA	59,207	1,204
				460/3/60	KBOS13E4SGA	59,348	
		ZB114K5E	15	208-230/3/60	KBOS15E4SEA	66,326	1,214
				460/3/60	KBOS15E4SGA	69,440	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

FLOODED // SCROLL COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	ZF25K4E	08	208-230/3/60	KFOS08L4SEA	42,238	941
				460/3/60	KFOS08L4SGA	44,734	
	FD2	ZF34K5E	10	208-230/3/60	KFOS10L4SEA	52,427	1,011
				460/3/60	KFOS10L4SGA	55,508	
		ZF41K5E	13	208-230/3/60	KFOS13L4SEA	59,253	1,204
				460/3/60	KFOS13L4SGA	60,268	
	FD3	ZF49K5E	15	208-230/3/60	KFOS15L4SEA	61,223	1,214
				460/3/60	KFOS15L4SGA	62,604	

NON-FLOODED // SCROLL COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	ZF25K4E	08	208-230/3/60	KBOS08L4SEB	40,366	941
				460/3/60	KBOS08L4SGB	42,863	
	FD2	ZF34K5E	10	208-230/3/60	KBOS10L4SEA	50,555	1,011
				460/3/60	KBOS10L4SGA	53,640	
		ZF41K5E	13	208-230/3/60	KBOS13L4SEA	57,384	1,204
				460/3/60	KBOS13L4SGA	58,401	
	FD3	ZF49K5E	15	208-230/3/60	KBOS15L4SEA	59,355	1,214
				460/3/60	KBOS15L4SGA	60,737	

- Factory Mounted Options found on pages 101-102.
- Liquid Injection is standard on Low Temp. Scroll compressors.

NEXT-GEN II • 3 TO 22 HP

FLOODED // BITZER COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	2DES-3	03	208-230/3/60	KFBS03E4SEA	44,255	975
				460/3/60	KFBS03E4SGA	47,158	
		2CES-4	04	208-230/3/60	KFBS04E4SEA	44,955	975
				460/3/60	KFBS04E4SGA	47,751	
		4FES-5	05	208-230/3/60	KFBS05E4SEA	45,679	975
				460/3/60	KFBS05E4SGA	48,374	
	FD2	4EES-6	06	208-230/3/60	KFBS06E4SEA	50,069	1,178
				460/3/60	KFBS06E4SGA	51,959	
		4DES-7	07	208-230/3/60	KFBS07E4SEA	54,396	1,178
				460/3/60	KFBS07E4SGA	55,481	
		4CES-9	08	208-230/3/60	KFBS08E4SEA	62,486	1,178
				460/3/60	KFBS08E4SGA	65,612	
		4TES-12	10	208-230/3/60	KFBS10E4SEA	63,242	1,537
				460/3/60	KFBS10E4SGA	66,978	
	FD3	4PES-15	12	208-230/3/60	KFBS12E4SEA	65,928	1,871
				460/3/60	KFBS12E4SGA	69,366	
		4NES-20	15	208-230/3/60	KFBS15E4SEA	67,431	2,383
				460/3/60	KFBS15E4SGA	70,729	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

NON-FLOODED // BITZER COMPRESSOR // MEDIUM TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
MEDIUM TEMPERATURE	FD1	2DES-3	03	208-230/3/60	KBBS03E4SEB	42,388	975
				460/3/60	KBBS03E4SGB	45,290	
		2CES-4	04	208-230/3/60	KBBS04E4SEB	43,084	975
				460/3/60	KBBS04E4SGB	45,882	
		4FES-5	05	208-230/3/60	KBBS05E4SEB	43,815	975
				460/3/60	KBBS05E4SGB	46,506	
	FD2	4EES-6	06	208-230/3/60	KBBS06E4SEA	48,201	1,178
				460/3/60	KBBS06E4SGA	50,091	
		4DES-7	07	208-230/3/60	KBBS07E4SEA	52,528	1,178
				460/3/60	KBBS07E4SGA	53,615	
		4CES-9	08	208-230/3/60	KBBS08E4SEA	59,434	1,178
				460/3/60	KBBS08E4SGA	62,500	
		4TES-12	10	208-230/3/60	KBBS10E4SEA	60,171	1,537
				460/3/60	KBBS10E4SGA	63,837	
	FD3	4PES-15	12	208-230/3/60	KBBS12E4SEA	62,810	1,871
				460/3/60	KBBS12E4SGA	66,182	
		4NES-20	15	208-230/3/60	KBBS15E4SEA	64,282	2,383
				460/3/60	KBBS15E4SGA	67,520	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

FLOODED // BITZER COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	4FES-3	03	208-230/3/60	KFBS03L4SEA	39,249	975
				460/3/60	KFBS03L4SGA	40,788	
		4EES-4	04	208-230/3/60	KFBS04L4SEA	43,136	975
				460/3/60	KFBS04L4SGA	44,674	
		4DES-5	05	208-230/3/60	KFBS05L4SEA	45,326	975
				460/3/60	KFBS05L4SGA	47,024	
		4CES-6	06	208-230/3/60	KFBS06L4SEA	54,300	1,178
				460/3/60	KFBS06L4SGA	56,502	
	FD2	4TES-9	07	208-230/3/60	KFBS08L4SEA	58,084	1,178
				460/3/60	KFBS08L4SGA	60,194	
		4PES-12	08	208-230/3/60	KFBS09L4SEA	62,185	1,178
				460/3/60	KFBS09L4SGA	64,183	
		4NES-14	10	208-230/3/60	KFBS10L4SEA	66,349	1,537
				460/3/60	KFBS10L4SGA	68,349	
		4JE-15	12	208-230/3/60	KFBS12L4SEA	71,515	1,871
				460/3/60	KFBS12L4SGA	73,513	
		4HE-18	15	208-230/3/60	KFBS15L4SEA	76,800	2,383
				460/3/60	KFBS15L4SGA	78,791	
	FD3	4GE-23	22	208-230/3/60	KFBS22L4SEA	78,791	2,936
				460/3/60	KFBS22L4SGA	81,701	

Factory Mounted Options found on pages 101-102.

NEXT-GEN II • 3 TO 22 HP

NON-FLOODED // BITZER COMPRESSOR // LOW TEMPERATURE // CONFIGURABLE BASE MODELS

	Cabinet Size	Compressor Model No.	Nom. H.P.	Voltage	Model No.	List Price (\$US)	4 Yr Compressor Protection Plan (Net Price Adder \$US)
LOW TEMPERATURE	FD1	4FES-3	03	208-230/3/60	KBBS03L4SEB	37,381	975
				460/3/60	KBBS03L4SGB	38,919	
		4EES-4	04	208-230/3/60	KBBS04L4SEB	41,265	975
				460/3/60	KBBS04L4SGB	42,802	
		4DES-5	05	208-230/3/60	KBBS05L4SEB	43,456	975
				460/3/60	KBBS05L4SGB	45,152	
		4CES-6	06	208-230/3/60	KBBS06L4SEB	52,432	1,178
				460/3/60	KBBS06L4SGB	54,635	
	FD2	4TES-9	07	208-230/3/60	KBBS08L4SEA	56,212	1,178
				460/3/60	KBBS08L4SGA	58,328	
		4PES-12	08	208-230/3/60	KBBS09L4SEA	60,314	1,178
				460/3/60	KBBS09L4SGA	62,312	
		4NES-14	10	208-230/3/60	KBBS10L4SEA	64,480	1,537
				460/3/60	KBBS10L4SGA	66,475	
		4JE-15	12	208-230/3/60	KBBS12L4SEA	69,646	1,871
				460/3/60	KBBS12L4SGA	71,643	
		4HE-18	15	208-230/3/60	KBBS15L4SEA	74,931	2,383
				460/3/60	KBBS15L4SGA	76,921	
	FD3	4GE-23	22	208-230/3/60	KBBS22L4SEA	72,927	2,936
				460/3/60	KBBS22L4SGA	79,831	

- Factory Mounted Options found on pages 101-102..
- Liquid Injection is optional on Low Temp. Bitzer compressors. It's required for non-R404A refrigerants.

NEXT-GEN II • 3 TO 22 HP

FACTORY INSTALLED OPTIONS // ELECTRICAL OPTIONS

Option Description (all options are factory mounted unless otherwise noted)	Option No.	H.P Range/ Cabinet	List Price Adder (\$US)
Through the Door Non-fused Disconnect Switch (only available mounted)	TDNM-3	3-10	3,070
	TDNM-4	12-22	3,434
External Fused Disconnect (available loose or mounted)	EFDM-2 (230 V)	3 - 6	1,988
	EFDM-3 (230 V)	7 - 10	2,363
	EFDM-4 (230 V)	12 - 22	5,042
	EFDM-2 (460 V)	3 - 6	2,334
	EFDM-3 (460 V)	7 - 10	4,200
	EFDM-4 (460 V)	12 - 22	6,933
Main Circuit Breaker	BKR-2	3 - 6	2,839
	BKR-3	7 - 10	3,575
	BKR-4	12 - 22	4,497
† Phase Loss Monitor	PLM	ALL	2,234
Anti Short Cycle Timer	ASC	ALL	1,321
Air Defrost Timer	TMR	ALL	1,099
Current Sensing Relay (Run proof)	CSR	ALL	1,464
Compressor Unloaders (Suction pressure control. Medium Temp reciprocating compressors only. 1 Step for 3D and larger compressors.)	UNL-1	When Available	4,109
Variable Speed EC Motors & Controller	-	FD1	4,986
	-	FD2 & FD3	8,466

† 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

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	2,264	DMB35	35	3,430	DMC35	35	5,160
DMA20	20	2,264	DMB40	40	3,430	DMC40	40	5,160
DMA24	24	2,264	DMB48	48	3,430	DMC48	48	5,160
DMA30	30	2,264	DMB60	60	4,933	DMC60	60	6,379
DMA35	35	2,529	DMB96	96	4,933	DMC96	96	6,379
DMA40	40	2,529						
DMA48	48	2,529						
DMB60	60	4,933						
DMB96	96	4,933						

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

NEXT-GEN II • 3 TO 22 HP

FACTORY INSTALLED OPTIONS // MECHANICAL OPTIONS

Option Description (all options are factory mounted unless otherwise noted)	Option No.	H.P Range/ Cabinet	List Price Adder (\$US)
Suction Line Filter (sealed)	SK-5	3 - 8	884
	SK-6	9 - 10	1,501
	SK-7	12 - 22	2,339
Replaceable Core Suction Filter ¹	RSK-5	3 - 8	1,699
	RSK-6	9 - 10	2,319
	RSK-7	12 - 22	3,141
Replaceable Core Liquid Filter ¹	RLK-5	3 - 8	1,496
	RLK-6	9 - 10	1,700
	RLK-7	12 - 22	1,925
Suction Line Accumulator	ASK-4	3 - 8	1,496
	ASK-5	9 - 10	2,200
	ASK-6	12 - 22	4,593
Oil Separator	OS-1	3 - 6	2,547
	OS-2	7 - 10	2,713
	OS-3	12 - 22	3,186
Oversized Receivers	OSR-1	FD1	2,248
	OSR-2	FD2	1,258
	OSR-3	FD3	1,271
Pressure Relief Valve	RV	FD1 (standard receiver)	570
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	HIR	ALL	1,480
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	2,930
		6 - 9	3,248
		10 - 15	6,054
		22	9,472
Liquid Injection / Demand Cooling™ (Low Temp. Bitzer & Discus compressors)	LNJ	ALL	4,794
Hail / Snow Guards~ (shipped loose to prevent shipping damage)	SG-E	FD1	1,812
	SG-F	FD2	2,476
	SG-G	FD3	2,777
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

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

QV-SERIES

15 TO 100 HP



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

MODEL NOMENCLATURE

K	F	D	V	030	M	4S	G	A
Brand	Style	Compressor	Compressor Configuration	Horsepower	Temperature	Refrigerant	Voltage	Vintage^
K - Kramer	F - Flooded B - Non-Flooded	D - Discus B - Bitzer EcoLine	V - Single D - Dual P - Parallel Piped		L - Low M - Medium	4S - Multiple Refrigerants	E - 208-230/3/60 G - 460/3/60	A B

50 Hz available. Contact Factory for additional information.

^ 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.

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 vibrasorbors
- 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

QV-SERIES • 15 TO 100 HP

DISCUS COMPRESSOR // SINGLE COMPRESSOR // CONFIGURABLE BASE MODELS

"- " Not Available

	Nom. H.P.	Model No.	Comp. Model No. (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	79,829	81,136	79,347	80,697	2,383
	20	K*DV020M4S*A	4DBNR20ME	88,355	89,600	86,476	88,245	2,936
	25	K*DV025M4S*A	4DHNR22ME	105,505	106,663	103,362	105,147	3,927
	30	K*DV030M4S*A	4DJNR28ME	123,316	124,662	116,639	118,086	4,073
	35	K*DV035M4S*A	6DHNR35ME	139,667	140,464	134,512	134,879	4,294
	40	K*DV040M4S*A	6DJNR40ME	153,698	155,834	147,765	149,931	4,957
	50	K*DV050M4S*A	6DUNR49ME	-	186,036	-	176,678	5,120
LOW TEMP.	22	K*DV022L4S*A	4DJNF76KE	99,250	101,338	99,233	100,488	2,936
	27	K*DV027L4S*A	6DHNF93KE	114,886	115,803	112,660	114,692	3,927
	30	K*DV030L4S*A	6DJNF11ME	126,929	128,097	124,312	126,394	4,073
	40	K*DV040L4S*A	6DUNF13ME	-	159,499	-	156,895	4,957

BITZER COMPRESSOR // SINGLE COMPRESSOR // CONFIGURABLE BASE MODELS

	Nom. H.P.	Model No.	Comp. Model No. (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	79,829	81,136	79,347	80,697	2,383
	20	K*BV020M4S*A	4JE-22	88,355	89,600	86,476	88,245	2,936
	25	K*BV025M4S*A	4HE-25	105,505	106,663	103,362	105,147	3,927
	30	K*BV030M4S*A	4GE-30	123,316	124,662	116,639	118,086	4,073
	35	K*BV035M4S*A	6HE-35	139,667	140,464	134,512	134,879	4,294
	40	K*BV040M4S*A	6GE-40	153,698	155,834	147,765	149,931	4,957
	50	K*BV050M4S*A	6FE-50	184,651	186,036	175,363	176,678	5,120
LOW TEMP.	22	K*BV022L4S*A	4GE-23	99,250	101,338	99,233	100,488	2,936
	27	K*BV027L4S*A	6HE-28	114,886	115,803	112,660	114,692	3,927
	30	K*BV030L4S*A	6GE-34	126,929	128,097	124,312	126,394	4,073
	40	K*BV040L4S*A	6FE-44	158,313	159,499	156,034	156,895	4,957

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 107-112.
- * 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

QV-SERIES • 15 TO 100 HP

DISCUS COMPRESSOR // DUAL COMPRESSOR // CONFIGURABLE BASE MODELS

"- " Not Available

	Nom. H.P.	Model No.	Comp. Model No. (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	159,661	162,273	158,692	161,393	4,073
	40	K*DD040M4S*A	4DBNR20ME	176,712	179,200	172,955	176,490	5,872
	50	K*DD050M4S*A	4DHNR22ME	211,012	213,326	206,725	210,301	5,120
	60	K*DD060M4S*A	4DJNR28ME	246,640	249,328	233,276	236,171	8,146
	70	K*DD070M4S*A	6DHNR35ME	279,331	280,931	269,023	269,760	9,030
	80	K*DD080M4S*A	6DJNR40ME	307,401	311,668	295,529	299,859	9,914
	100	K*DD100M4S*A	6DUNR49ME	-	372,075	-	353,355	10,240
LOW TEMP.	44	K*DD044L4S*A	4DJNF76KE	198,497	202,674	198,467	200,976	5,872
	54	K*DD054L4S*A	6DHNF93KE	229,768	231,603	225,321	229,384	6,095
	60	K*DD060L4S*A	6DJNF11ME	253,855	256,192	248,624	252,778	8,146
	80	K*DD080L4S*A	6DUNF13ME	-	319,003	-	313,790	9,914

BITZER COMPRESSOR // DUAL COMPRESSOR // CONFIGURABLE BASE MODELS

	Nom. H.P.	Model No.	Comp. Model No. (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	159,661	162,273	158,692	161,393	4,073
	40	K*BD040M4S*A	4JE-22	176,712	179,200	172,955	176,490	5,872
	50	K*BD050M4S*A	4HE-25	211,012	213,326	206,725	210,301	5,120
	60	K*BD060M4S*A	4GE-30	246,640	249,328	233,276	236,171	8,146
	70	K*BD070M4S*A	6HE-35	279,331	280,931	269,023	269,760	9,030
	80	K*BD080M4S*A	6GE-40	307,401	311,668	295,529	299,859	9,914
	100	K*BD100M4S*A	6FE-50	369,305	372,075	350,724	353,355	10,240
LOW TEMP.	44	K*BD044L4S*A	4GE-23	198,497	202,674	198,467	200,976	5,872
	54	K*BD054L4S*A	6HE-28	229,768	231,603	225,321	229,384	6,095
	60	K*BD060L4S*A	6GE-34	253,855	256,192	248,624	252,778	8,146
	80	K*BD080L4S*A	6FE-44	316,628	319,003	311,452	313,790	9,914

- Factory Mounted Options & Shipped-Loose Accessories are found on pages 107-112.
- * 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

QV-SERIES • 15 TO 100 HP

DISCUS COMPRESSOR // PARALLEL PIPED COMPRESSOR // CONFIGURABLE BASE MODELS

"-" Not Available

	Nom. H.P.	Model No.	Comp. Model No. (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	237,114	239,139	232,194	235,698	5,120
	60	K*DP060M4S*A	4DJNR28ME	270,531	272,988	255,035	257,781	8,146
	70	K*DP070M4S*A	6DHNR35ME	304,170	305,537	292,518	292,884	9,030
	80	K*DP080M4S*A	6DJNR40ME	329,912	335,055	316,661	321,863	9,914
	100	K*DP100M4S*A	6DUNR49ME	-	413,003	-	391,125	10,240
LOW TEMP.	44	K*DP044L4S*A	4DJNF76KE	225,164	229,300	225,131	227,363	5,872
	54	K*DP054L4S*A	6DHNF93KE	254,719	256,232	249,691	253,756	6,095
	60	K*DP060L4S*A	6DJNF11ME	277,223	279,302	271,387	275,528	8,146
	80	K*DP080L4S*A	6DUNF13ME	-	354,089	-	348,210	9,914

BITZER COMPRESSOR // PARALLEL PIPED COMPRESSOR // CONFIGURABLE BASE MODELS

	Nom. H.P.	Model No.	Comp. Model No. (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	237,114	239,139	232,194	235,698	5,120
	60	K*BP060M4S*A	4GE-30	270,531	272,988	255,035	257,781	8,146
	70	K*BP070M4S*A	6HE-35	304,170	305,537	292,518	292,884	9,030
	80	K*BP080M4S*A	6GE-40	329,912	335,055	316,661	321,863	9,914
	100	K*BP100M4S*A	6FE-50	409,927	413,003	388,210	391,125	10,240
LOW TEMP.	44	K*BP044L4S*A	4GE-23	225,164	229,300	225,131	227,363	5,872
	54	K*BP054L4S*A	6HE-28	254,719	256,232	249,691	-	6,095
	60	K*BP060L4S*A	6GE-34	277,223	279,302	271,387	275,528	8,146
	80	K*BP080L4S*A	6FE-44	409,927	354,089	345,614	348,210	9,914

• Factory Mounted Options & Shipped-Loose Accessories are found on pages 107-112.

• * 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

QV-SERIES • 15 TO 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	3,148
	Compressor Unloading with Pressure Control for 2 Cycle Bank	035M & 045M	5,272
	Compressor Unloading: Moduload	DV015M	7,768
	Head Cooling Fan	All Models	3,276
	Liquid Injection / Demand Cooling	022L - 040L	7,195
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	1,057
	Anti-Short Cycle Timer	All Models	913
	Condenser Fan Breaker	015M -030M; 022L - 040L	1,377
		035M -050M	2,094
	Control Circuit Breaker	All Models	448
	EC Fan Motors with Electronic Variable Speed Control	015M -030M; 022L - 040L	Call Factory
		035M -050M	
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,787
		Models with 61A < MOPD < 101A	4,128
		Models with 101A < MOPD < 201A	7,071
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,563
		Models with 101A < MOPD < 201A	5,780
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,509
		Models with 59A < MCA > 99A	3,642
		Models with 99A < MCA < 199A	6,023
	Phase-Loss Monitor - 250A	230 V & 460 V	1,762
	Phase-Loss Monitor - ICM450	230 V	2,569
		460 V	1,826

QV-Series Single Compressor Options continued on next page.

QV-SERIES • 15 TO 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	6,186
		020M - 040M; 022L - 030L	7,792
		050M & 040L	15,464
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,779
	Heat Reclaim Valve	All Models	6,430
	Heated & Insulated Receiver	All Models	4,893
	Hot Gas Bypass Tee & Ball Valve	All Models	1,508
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	8,742
	Liquid-line Filter Isolation Valve (single valve)	All Models	870
	Liquid Line Solenoid Valve (shipped loose)	015M - 025M; 022L - 040L	1,081
		030M - 035M	1,382
		040M - 050M	2,089
	Oil Separator with Check Valve	015 - 030	2,998
		035 - 050	5,062
	Oil Separator with Check Valve & Oil Return Service Kit	015 - 030	6,637
		035 - 050	9,397
	Oversized Receiver	All Models	2,083
	Receiver Level Gauge	All Models	2,583
	Suction Accumulator - Standard	015	4,663
		020-050	5,393
	Suction Accumulator - Heat Exchanger	015	5,780
		020-050	8,947
	Suction-line Filter - Replaceable Core	015M	3,058
		020M - 040M; 022L - 030L	3,193
		050M & 040L	3,992
	Suction-line Filter Isolation Valves	015M	1,427
		020M - 040M; 022L - 030L	2,297
		050M & 040L	3,996
	Suction-line Insulation	All Models	2,529

QV-SERIES • 15 TO 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	6,296
	Compressor Unloading with Pressure Control for 2 Cycle Bank	D070M & D080M	10,545
	Compressor Unloading: Moduload	DD030M	15,535
	Head Cooling Fan	All Models	6,553
	Liquid Injection / Demand Cooling	D044L - D080L	14,391
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	2,114
	Anti-Short Cycle Timer	All Models	1,825
	Condenser Fan Breaker	D030M -D060M; D044L - D080L	2,754
		D070M -D100M	4,187
	Control Circuit Breaker	All Models	448
	EC Fan Motors with Electronic Variable Speed Control	D030M -D060M; D044L - D080L	Call Factory
		D070M -D100M	
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,787
		Models with 61A < MOPD < 101A	4,128
		Models with 101A < MOPD < 201A	7,071
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,563
		Models with 101A < MOPD < 201A	5,780
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,509
		Models with 59A < MCA > 99A	3,642
		Models with 99A < MCA < 199A	6,023
	Phase-Loss Monitor - 250A	230 V & 460 V	3,523
	Phase-Loss Monitor - ICM450	460 V	3,653

QV-Series Dual Compressor Options continued on next page.

QV-SERIES • 15 TO 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	12,372
		D040M - D080M; D044L - D060L	15,584
		D100M & D080L	30,929
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,559
	Heat Reclaim Valve	All Models	12,860
	Heated & Insulated Receiver	All Models	9,786
	Hot Gas Bypass Tee & Ball Valve	All Models	3,017
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	17,484
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	1,741
	Liquid Line Solenoid Valve (shipped loose)	030M - 050M; 044L - 080L	2,162
		060M - 070M	2,764
		080M - 100M	4,179
	Oil Separator with Check Valve	D030 - D060	5,995
		D070 - D100	10,123
	Oil Separator with Check Valve & Oil Return Service Kit	D030 - D060	13,273
		D070 - D100	18,794
	Oversized Receiver	All Models	4,166
	Receiver Level Gauge	All Models	5,166
	Suction Accumulator - Standard	D030	9,326
		D040-D100	10,787
	Suction Accumulator - Heat Exchanger	D030	11,560
		D040-D100	17,895
	Suction-line Filter - Replaceable Core	D030M	6,116
		D040M - D080M; D044L - D060L	6,385
		D100M & D080L	7,984
	Suction-line Filter Isolation Valves	D030M	2,854
		D040M - D080M; D044L - D060L	4,594
		D100M & D080L	7,992
	Suction-line Insulation	All Models	5,058

QV-SERIES • 15 TO 100 HP

FACTORY INSTALLED OPTIONS // PARALLEL-PIPED COMPRESSOR // COMPRESSOR & ELECTRICAL OPTIONS

	Option Description <i>(all options are factory mounted unless otherwise noted)</i>	Option Available On:	List Price Adder (\$US)
COMPRESSOR OPTIONS	Compressor Unloading with Pressure Control for 1 Cycle Bank	P050M - P060M, P100M; P044L - P080L	6,296
	Compressor Unloading with Pressure Control for 2 Cycle Bank	P070M & P080M	10,545
	Head Cooling Fan	All Models	6,553
	Liquid Injection / Demand Cooling	P044L - P080L	14,391
ELECTRICAL AND CONTROL PANEL OPTIONS	Air Defrost Time Clock	All Medium Temperature Models	1,057
	Anti-Short Cycle Timer	All Models	913
	Condenser Fan Breaker	P050M -P060M; P044L - P080L	1,377
		P070M -P100M	2,094
	Control Circuit Breaker	All Models	448
	EC Fan Motors with Electronic Variable Speed Control	P050M -P060M; P044L - P080L	Call Factory
		P070M -P100M	
	Thru-the-door Fused Disconnect	Models with MOPD < 61A	2,787
		Models with 61A < MOPD < 101A	4,128
		Models with 101A < MOPD < 201A	7,071
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,563
		Models with 101A < MOPD < 201A	5,780
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,509
		Models with 59A < MCA > 99A	3,642
		Models with 99A < MCA < 199A	6,023
	Phase-Loss Monitor - 250A	230 V & 460 V	1,762
	Phase-Loss Monitor - ICM450	460 V	1,826

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

QV-SERIES • 15 TO 100 HP

FACTORY INSTALLED OPTIONS // PARALLEL-PIPED COMPRESSOR // REFRIGERATION OPTIONS

Option Description (all options are factory mounted unless otherwise noted)		Option Available On:	List Price Adder (\$US)
REFRIGERATION OPTIONS	Crankcase Pressure Regulator Valves	P050M-P60M	15,584
		P070M-P100M; P044L - P080L	18,193
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,559
	Heat Reclaim Valve	All Models	6,430
	Heated & Insulated Receiver	All Models	4,893
	Hot Gas Bypass Tee & Ball Valve	All Models	1,508
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	8,742
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	870
	Liquid Line Solenoid Valve (shipped loose)	050M - 060M	8,662
		070M - 100M	3,533
		044L - 080L	1,354
	Oversized Receiver	All Models	2,083
	Receiver Level Gauge	All Models	2,583
	Suction Accumulator - Standard	P050M-P60M	6,472
		P070M-P100M; P044L - P080L	7,044
	Suction Accumulator - Heat Exchanger	P050M-P60M	8,947
		P070M-P100M; P044L - P080L	9,887
	Suction-line Filter - Replaceable Core	P050M-P60M	2,858
		P070M-P100M; P044L - P080L	3,193
	Suction-line Filter Isolation Valves	P050M-P60M	3,992
		P070M-P100M; P044L - P080L	6,310
	Suction-line Insulation	All Models	5,058

QV-SERIES • 15 TO 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	2,913						
DLA30 ¹	3,027						
DLA35 ¹	3,408	DLB35 ¹	4,348	DLC35	5,940		
DLA40 ¹	3,408	DLB40 ¹	4,348	DLC40	5,940		
DLA48 ¹	3,408	DLB48 ¹	4,348	DLC48	5,940		
		DLB60 ^{1 2 4}	4,521	DLC60 ¹	5,940	DLD60	7,025
		DLB96 ^{1 2 4}	5,476	DLC96 ¹	6,300	DLD96	7,081
				DLC144 ¹	8,583	DLD144 ^{3 5}	8,641
						DLD192 ^{3 5}	9,082

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	2,913		
DLA30 ¹	3,027		
DLA35 ¹	3,408	DLB35 ¹	4,348
DLA40 ¹	3,408	DLB40 ¹	4,348
DLA48 ¹	3,408	DLB48 ¹	4,348
		DLB60 ^{1 2 4}	4,521
		DLB96 ^{1 2 4}	5,476

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.

QV-SERIES • 15 TO 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	1,607
TMR-EF-30A	30	1,703

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	193	1,450						
30	258	2,256						
35	258	2,256	258	2,676	383	2,874		
40	258	2,256	258	2,676	383	2,874		
48	258	2,256	258	2,676	383	2,874		
60			360	4,500	550	4,752	593	4,975
96			461	4,531	629	6,055	760	6,241
144					796	6,261	1,040	7,516
192							1,047	7,595

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



WATER-COOLED CONDENSING UNIT

MODELS

NEXT-GEN WC-SERIES™ 1/2 TO 6 HP



MODEL NOMENCLATURE

K	W	O	500	M	4S	E	A
Brand	Style	Compressor	Horsepower	Temperature	Refrigerant	Voltage	Vintage
K - Kramer	F - Flooded B - Non-Flooded	D - Discus O - Scroll B - Bitzer		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

50 Hz available. Contact Factory for additional information.

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

NEXT-GEN WC-SERIES • 1/2 TO 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

	Frame Size	Nom. H.P.	Compressor Model No.	Model No.	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	8,729	-	-	217
	FW1	1/2	RST55C1E	KWH080E4S*A	8,909	-	-	217
	FW1	3/4	RST64C1E	KWH090E4S*A	9,179	-	-	217
	FW1	3/4	RST70C1E	KWH100E4S*A	9,913	10,249	-	217
	FW2	1	RST97C1E	KWH125E4S*A	10,623	10,540	-	239

WATER-COOLED // SCROLL COMPRESSOR // CONFIGURABLE BASE MODELS

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

	Frame Size	Nom. H.P.	Compressor Model No.	Model No.	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	15,592	15,616	-	404
	FW1	1/2	ZB07KAE	KWO080M4S*A	15,745	15,798	-	404
	FW1	1	ZB08KAE	KWO100M4S*A	15,900	16,004	-	404
EXTENDED MEDIUM TEMPERATURE	FW1	1-1/3	ZS09KAE	KWO130E4S*A	16,074	16,235	16,832	404
	FW2	1-1/2	ZS11KAE	KWO150E4S*A	17,196	17,362	17,953	404
	FW2	1-3/4	ZS13KAE	KWO180E4S*A	17,607	17,768	18,361	404
	FW3	2	ZS15KAE	KWO200E4S*A	17,912	18,073	18,667	404
	FW3	2-1/2	ZS19KAE	KWO250E4S*A	18,118	18,318	19,021	404
	FW4	3	ZS21KAE	KWO300E4S*A	18,392	18,627	19,441	530
	FW4	3-1/2	ZS26KAE	KWO350E4S*A	19,540	19,792	20,372	530
	FW4	4	ZS29KAE	KWO400E4S*A	20,163	20,443	21,005	549
	FW4	4-1/2	ZS33KAE	KWO450E4S*A	19,908	20,190	20,923	549
	FW4	6	ZS38K4E	KWO500E4S*A	20,903	21,192	22,096	568
	FW4	6-1/2	ZS45K4E	KWO600E4S*A	-	24,457	24,852	568

- Factory Mounted Options & Shipped-Loose Accessories are found on page 119
- * represents Voltage. "D" for 230/1/60, "E" for 280-230/3/60 and "G" for 460/3/60
- "-" Not Available

NEXT-GEN WC-SERIES • 1/2 TO 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 No.	Model No.	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	16,337	17,237	-	404
	FW2	1-1/3	ZF04KAE	KWO130L4S*A	16,737	17,538	-	404
	FW2	1-1/2	ZF05KAE	KWO160L4S*A	17,257	17,949	-	404
	FW2	2	ZF07KAE	KWO230L4S*A	18,232	18,474	19,052	404
	FW3	2-1/2	ZF08K4E	KWO250L4S*A	18,861	19,127	19,330	404
	FW3	3	ZF09K4E	KWO300L4S*A	19,319	19,604	21,953	530
	FW3	3-1/2	ZF11K4E	KWO350L4S*A	20,194	20,481	20,963	530
	FW4	4	ZF13K4E	KWO400L4S*A	21,063	21,335	21,819	549
	FW4	5	ZF15K4E	KWO500L4S*A	21,335	21,601	22,101	568
	FW4	6	ZF18K4E	KWO600L4S*A	-	24,352	25,674	568

- Factory Mounted Options & Shipped-Loose Accessories are found on next page
- * represents Voltage. "D" for 230/1/60, "E" for 280-230/3/60 and "G" for 460/3/60
- "-" Not Available

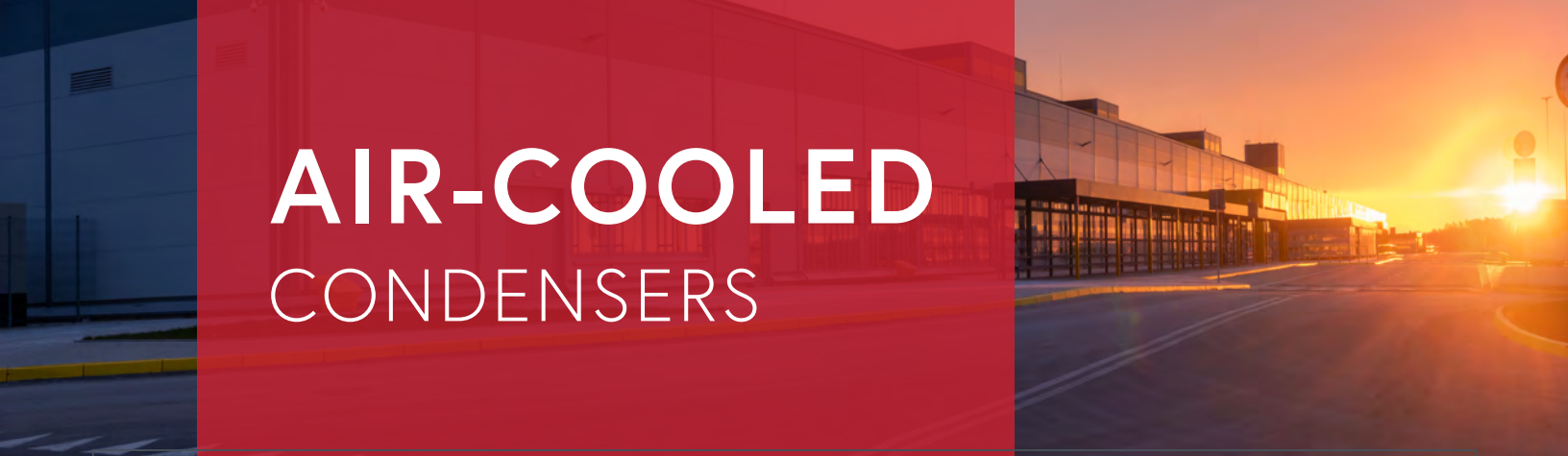
NEXT-GEN WC-SERIES • 1/2 TO 6 HP

FACTORY MOUNTED 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	1,115
	2.5 - 3.5	1,211
	4.0 - 4.5	1,359
	5.0 - 6.5	2,002
Cupronickel Water Regulating Valve	ALL	Contact Factory
External Fused Disconnect (Mounted)	FW1 - FW2	999
	FW3 - FW4	1,841
External Fused Disconnect (Loose)	FW4	1,686
Liquid Line with Premium Components: Replaceable Core Filter/Drier	FW4	933
Suction Line Components: Sealed Filter	FW1	605
	FW2 - FW4	721
Suction Line Components: Replaceable Core Filter	FW4	2,122
Suction Accumulator	FW1	934
	FW2 - FW4	1,441
Compressor Pump-down Switch	ALL	597
Phase Loss Monitor*	ALL	2,072
Cupronickel Heat Exchanger	ALL	Contact Factory
Two-Tiered Stacking Rack (shipped loose)	ALL	Contact Factory
Over-Sized Receiver	FW1	774
	FW2	922
	FW3	2,205
	FW4	2,262
Heated & Insulated Receiver (temperature controlled w/low pressure bypass timer)	ALL	1,264
Thru The Door - Non - Fused - Disconnect Switch	FW1 - FW2	888
	FW3 - FW4	1,181
Remove Standard Defrost Kit (Low Temp only)	ALL	(1,045)
Remove Standard Air Defrost Timer (Medium Temp only)	ALL	(902)
Oil Separator	FW4	2,292
Substitute Standard Air Defrost Timer For Standard Defrost Kit (ED5-ED11)	ALL	186

For Defrost Kit Options, please see pages 80-82.

* Only available on units that are 3 Phase.



AIR-COOLED CONDENSERS

MODELS

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

QUANTUM AIR™ LARGE CONDENSER



MODEL NOMENCLATURE

K	D	D	087	G	D	3	A
Brand	Series	Width	MBTUH	Voltage	Motor	No. 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

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

QUANTUM AIR™

MODELS WITH 1140 RPM, 1.5 HP MOTORS

		List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^B1A	12,929	13,655	14,381	15,107	1 x 1
	KDS006^B1A	16,447	17,173	17,899	18,625	1 x 1
	KDS007^B1A	18,366	19,092	19,818	20,544	1 x 1
	KDS012^B2A	27,040	28,492	29,944	31,396	1 x 2
	KDS015^B2A	37,186	38,638	40,090	41,542	1 x 2
	KDS018^B2A	44,046	45,498	46,950	48,402	1 x 2
	KDS022^B3A	54,379	56,557	58,735	60,913	1 x 3
	KDS027^B3A	63,294	65,472	67,650	69,828	1 x 3
	KDS030^B4A	75,967	78,871	81,775	84,679	1 x 4
	KDS036^B4A	85,911	88,815	91,719	94,623	1 x 4
	KDS039^B5A	94,780	98,410	102,040	105,670	1 x 5
	KDS047^B5A	110,238	113,868	117,498	121,128	1 x 5
	KDS056^B6A	131,924	136,280	140,636	144,992	1 x 6
	KDS065^B7A	155,011	160,093	165,175	170,257	1 x 7
DOUBLE FAN WIDTH	KDD022^B2A	55,833	58,737	61,641	64,545	2 x 2
	KDD030^B2A	74,240	77,144	80,048	82,952	2 x 2
	KDD036^B2A	86,423	89,327	92,231	95,135	2 x 2
	KDD045^B3A	111,047	115,403	119,759	124,115	2 x 3
	KDD054^B3A	129,878	134,234	138,590	142,946	2 x 3
	KDD059^B4A	148,681	154,489	160,297	166,105	2 x 4
	KDD072^B4A	171,559	177,367	183,175	188,983	2 x 4
	KDD078^B5A	189,562	196,822	204,082	211,342	2 x 5
	KDD094^B5A	220,807	228,067	235,327	242,587	2 x 5
	KDD113^B6A	263,814	272,526	281,238	289,950	2 x 6
	KDD131^B7A	310,778	320,942	331,106	341,270	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.

QUANTUM AIR™

MODELS WITH 850 RPM, 1.5 HP MOTORS

	Model No.	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^D1A	12,799	13,525	14,251	14,977	1 x 1
	KDS005^D1A	16,345	17,071	17,797	18,523	1 x 1
	KDS007^D1A	18,210	18,936	19,662	20,388	1 x 1
	KDS010^D2A	27,648	29,100	30,552	32,004	1 x 2
	KDS014^D2A	37,073	38,525	39,977	41,429	1 x 2
	KDS015^D2A	41,101	42,553	44,005	45,457	1 x 2
	KDS021^D3A	54,709	56,887	59,065	61,243	1 x 3
	KDS024^D3A	61,921	64,099	66,277	68,455	1 x 3
	KDS028^D4A	74,296	77,200	80,104	83,008	1 x 4
	KDS032^D4A	83,293	86,197	89,101	92,005	1 x 4
	KDS035^D5A	90,849	94,479	98,109	101,739	1 x 5
	KDS043^D5A	109,015	112,645	116,275	119,905	1 x 5
	KDS052^D6A	130,810	135,166	139,522	143,878	1 x 6
	KDS060^D7A	153,370	158,452	163,534	168,616	1 x 7
DOUBLE FAN WIDTH	KDD019^D2A	53,796	56,700	59,604	62,508	2 x 2
	KDD028^D2A	74,022	76,926	79,830	82,734	2 x 2
	KDD031^D2A	80,823	83,727	86,631	89,535	2 x 2
	KDD041^D3A	110,101	114,457	118,813	123,169	2 x 3
	KDD048^D3A	124,974	129,330	133,686	138,042	2 x 3
	KDD055^D4A	148,756	154,564	160,372	166,180	2 x 4
	KDD065^D4A	166,936	172,744	178,552	184,360	2 x 4
	KDD069^D5A	181,625	188,885	196,145	203,405	2 x 5
	KDD086^D5A	218,414	225,674	232,934	240,194	2 x 5
	KDD103^D6A	261,751	270,463	279,175	287,887	2 x 6
	KDD121^D7A	306,781	316,945	327,109	337,273	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.

QUANTUM AIR™

MODELS WITH 850 RPM, 1.0 HP MOTORS

	Model No.	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^L1A	11,963	11,971	13,415	14,141	1 x 1
	KDS006^L1A	15,475	15,284	16,927	17,653	1 x 1
	KDS008^L1A	18,489	18,127	19,941	20,667	1 x 1
	KDS010^L2A	25,973	25,873	28,877	30,329	1 x 2
	KDS012^L2A	32,746	32,262	35,650	37,102	1 x 2
	KDS015^L2A	39,570	38,700	42,474	43,926	1 x 2
	KDS019^L3A	51,721	50,848	56,077	58,255	1 x 3
	KDS023^L3A	59,176	57,881	63,532	65,710	1 x 3
	KDS026^L4A	71,602	70,289	77,410	80,314	1 x 4
	KDS030^L4A	81,187	79,331	86,995	89,899	1 x 4
	KDS032^L5A	87,213	85,701	94,473	98,103	1 x 5
	KDS040^L5A	107,370	104,717	114,630	118,260	1 x 5
	KDS048^L6A	129,547	126,324	138,259	142,615	1 x 6
	KDS056^L7A	151,593	147,807	161,757	166,839	1 x 7
DOUBLE FAN WIDTH	KDD017^L2A	50,048	49,955	55,856	58,760	2 x 2
	KDD026^L2A	71,574	70,262	77,382	80,286	2 x 2
	KDD030^L2A	81,220	79,362	87,028	89,932	2 x 2
	KDD038^L3A	108,226	106,209	116,938	121,294	2 x 3
	KDD046^L3A	126,238	123,202	134,950	139,306	2 x 3
	KDD051^L4A	145,326	142,579	156,942	162,750	2 x 4
	KDD060^L4A	165,470	161,583	177,086	182,894	2 x 4
	KDD063^L5A	176,417	173,280	190,937	198,197	2 x 5
	KDD080^L5A	217,609	212,141	232,129	239,389	2 x 5
	KDD097^L6A	261,353	254,778	278,777	287,489	2 x 6
	KDD113^L7A	306,315	298,565	326,643	336,807	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.
- These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

QUANTUM AIR™

MODELS WITH 550 RPM, 1/3 HP MOTORS

Model No.		List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^E1A	13,806	14,532	15,258	15,984	1 x 1
	KDS005^E1A	16,248	16,974	17,700	18,426	1 x 1
	KDS006^E1A	18,299	19,025	19,751	20,477	1 x 1
	KDS008^E2A	27,215	28,667	30,119	31,571	1 x 2
	KDS011^E2A	35,846	37,298	38,750	40,202	1 x 2
	KDS012^E2A	39,633	41,085	42,537	43,989	1 x 2
	KDS016^E3A	54,858	57,036	59,214	61,392	1 x 3
	KDS018^E3A	60,108	62,286	64,464	66,642	1 x 3
	KDS021^E4A	75,190	78,094	80,998	83,902	1 x 4
	KDS025^E4A	84,284	87,188	90,092	92,996	1 x 4
	KDS028^E5A	95,523	99,153	102,783	106,413	1 x 5
	KDS032^E5A	105,848	109,478	113,108	116,738	1 x 5
	KDS040^E6A	134,662	139,018	143,374	147,730	1 x 6
	KDS046^E7A	157,435	162,517	167,599	172,681	1 x 7
DOUBLE FAN WIDTH	KDD016^E2A	58,334	61,238	64,142	67,046	2 x 2
	KDD021^E2A	75,190	78,094	80,998	83,902	2 x 2
	KDD025^E2A	83,537	86,441	89,345	92,249	2 x 2
	KDD032^E3A	115,373	119,729	124,085	128,441	2 x 3
	KDD037^E3A	126,334	130,690	135,046	139,402	2 x 3
	KDD043^E4A	154,360	160,168	165,976	171,784	2 x 4
	KDD050^E4A	171,928	177,736	183,544	189,352	2 x 4
	KDD055^E5A	196,911	204,171	211,431	218,691	2 x 5
	KDD063^E5A	216,137	223,397	230,657	237,917	2 x 5
	KDD080^E6A	274,038	282,750	291,462	300,174	2 x 6
	KDD093^E7A	318,656	328,820	338,984	349,148	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.
- These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

QUANTUM AIR™

MODELS WITH 900 RPM, VARIABLE SPEED EC MOTORS

Model No.		List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS004^G1A	23,421	24,147	24,873	25,599	1 x 1
	KDS005^G1A	26,942	27,668	28,394	29,120	1 x 1
	KDS007^G1A	28,861	29,587	30,313	31,039	1 x 1
	KDS010^G2A	48,026	49,478	50,930	52,382	1 x 2
	KDS014^G2A	58,170	59,622	61,074	62,526	1 x 2
	KDS015^G2A	65,034	66,486	67,938	69,390	1 x 2
	KDS021^G3A	85,861	88,039	90,217	92,395	1 x 3
	KDS025^G3A	94,772	96,950	99,128	101,306	1 x 3
	KDS028^G4A	117,941	120,845	123,749	126,653	1 x 4
	KDS033^G4A	127,885	130,789	133,693	136,597	1 x 4
	KDS035^G5A	147,246	150,876	154,506	158,136	1 x 5
	KDS044^G5A	162,704	166,334	169,964	173,594	1 x 5
	KDS052^G6A	194,886	199,242	203,598	207,954	1 x 6
	KDS061^G7A	228,465	233,547	238,629	243,711	1 x 7
DOUBLE FAN WIDTH	KDD020^G2A	97,812	100,716	103,620	106,524	2 x 2
	KDD028^G2A	116,214	119,118	122,022	124,926	2 x 2
	KDD032^G2A	128,399	131,303	134,207	137,111	2 x 2
	KDD042^G3A	174,006	178,362	182,718	187,074	2 x 3
	KDD049^G3A	192,839	197,195	201,551	205,907	2 x 3
	KDD056^G4A	232,629	238,437	244,245	250,053	2 x 4
	KDD065^G4A	255,505	261,313	267,121	272,929	2 x 4
	KDD070^G5A	294,499	301,759	309,019	316,279	2 x 5
	KDD087^G5A	325,742	333,002	340,262	347,522	2 x 5
	KDD105^G6A	389,735	398,447	407,159	415,871	2 x 6
	KDD122^G7A	457,703	467,867	478,031	488,195	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.
- These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

QUANTUM AIR™

MODELS WITH 1200 RPM, VARIABLE SPEED EC MOTORS

Model No.		List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
SINGLE FAN WIDTH	KDS005^K1A	23,421	24,147	24,873	25,599	1 x 1
	KDS006^K1A	26,942	27,668	28,394	29,120	1 x 1
	KDS008^K1A	28,861	29,587	30,313	31,039	1 x 1
	KDS013^K2A	48,026	49,478	50,930	52,382	1 x 2
	KDS016^K2A	58,170	59,622	61,074	62,526	1 x 2
	KDS019^K2A	65,034	66,486	67,938	69,390	1 x 2
	KDS024^K3A	85,861	88,039	90,217	92,395	1 x 3
	KDS028^K3A	94,772	96,950	99,128	101,306	1 x 3
	KDS032^K4A	117,941	120,845	123,749	126,653	1 x 4
	KDS038^K4A	127,885	130,789	133,693	136,597	1 x 4
	KDS041^K5A	147,246	150,876	154,506	158,136	1 x 5
	KDS049^K5A	162,704	166,334	169,964	173,594	1 x 5
	KDS059^K6A	194,886	199,242	203,598	207,954	1 x 6
	KDS069^K7A	228,465	233,547	238,629	243,711	1 x 7
DOUBLE FAN WIDTH	KDD023^K2A	97,812	100,716	103,620	106,524	2 x 2
	KDD032^K2A	116,214	119,118	122,022	124,926	2 x 2
	KDD038^K2A	128,399	131,303	134,207	137,111	2 x 2
	KDD047^K3A	174,006	178,362	182,718	187,074	2 x 3
	KDD057^K3A	192,839	197,195	201,551	205,907	2 x 3
	KDD063^K4A	232,629	238,437	244,245	250,053	2 x 4
	KDD075^K4A	255,505	261,313	267,121	272,929	2 x 4
	KDD082^K5A	294,499	301,759	309,019	316,279	2 x 5
	KDD099^K5A	325,742	333,002	340,262	347,522	2 x 5
	KDD118^K6A	389,735	398,447	407,159	415,871	2 x 6
	KDD138^K7A	457,703	467,867	478,031	488,195	2 x 7

- Factory Mounted Options & Shipped-Loose Accessories start on page 128.
- ^ Represents Voltage. "E" - 208-230/3/60, "G" - 460/3/60, "N" - 200-220/3/50 or "Q" - 380/3/50.
- These models fulfill California Title 24 condenser efficiency requirements when utilizing Variable Frequency Drives and 10 FPI coils.

QUANTUM AIR™

FACTORY MOUNTED 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	843	843	1,426	1,621	1,777	1,945	2,104
Main Power Circuit Breaker	1,728	1,728	2,140	2,140	2,140	2,140	2,140
Bladed Safety Switch, Non-fused	1,539	1,539	2,965	2,965	2,965	2,965	2,965
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	621	621	621	621	621	621	621
FAN CYCLING OPTIONS - REQUIRES CONTACTOR OPTION							
Ambient fan cycling†	-	1,717	2,340	3,120	3,894	4,675	5,455
Mechanical Pressure fan cycling (per circuit) w/o Header†	-	2,583	2,829	3,766	4,711	5,653	6,589
Mechanical Pressure fan cycling (per circuit) w/ Header†	-	3,291	4,238	5,183	6,133	7,079	8,043
Electronic Pressure fan cycling (per circuit) w/o Header†	-	2,679	3,358	5,577	7,798	10,016	11,767
Electronic Pressure fan cycling (per circuit) w/ Header†	-	3,805	6,023	8,239	10,468	12,193	14,328
	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	1,621	1,945	2,509	3,079	3,650	4,217	
Main Power Circuit Breaker	2,140	2,140	2,291	2,291	2,291	2,291	
Bladed Safety Switch, Non-fused	2,965	2,965	3,744	3,744	3,744	3,744	
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	621	621	621	621	621	621	
FAN CYCLING OPTIONS - REQUIRES CONTACTOR OPTION							
Ambient fan cycling†	1,717	2,340	3,120	3,894	4,675	5,455	
Mechanical Pressure fan cycling (per circuit) w/o Header†	2,583	2,829	3,766	4,711	5,653	6,589	
Mechanical Pressure fan cycling (per circuit) w/ Header†	3,291	4,238	5,183	6,133	7,079	8,043	
Electronic Pressure fan cycling (per circuit) w/o Header†	2,679	3,358	5,577	7,798	10,016	11,767	
Electronic Pressure fan cycling (per circuit) w/ Header†	3,805	6,023	8,239	10,468	12,193	14,328	
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 131.

Continued on next page

QUANTUM AIR™

FACTORY MOUNTED OPTIONS

"-" Not Available

FAN CONFIGURATION	ALL						
ELECTRONIC HEADER END FAN SPEED CONTROL - REQ. CONTACTOR & FAN CYCLE ON 1X2 AND LARGER (continued)							
Variable speed header end fan (1 or 2 Circuit) Electronic control - pressure†	CONTACT FACTORY						
VARIABLE FREQUENCY DRIVE (VFD)							
VFD Package - Shipped Loose†	CONTACT FACTORY						
VFD Package - Factory Mounted†	CONTACT FACTORY						
CONTROL OPTIONS							
Control Circuit Breaker (2P - 15A)	557	557	557	557	557	557	557
Control Circuit Transformer†	1,050	1,050	1,050	1,050	1,050	1,050	1,050
	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 ‡ also require the contactor option							
CPC Relay Board + XFMR (1x1 thru 1x7 config) ‡	5,543	5,543	5,543	5,543	5,543	5,543	5,543
CPC Relay Boards (2)+ XFMR (2x5 thru 2x7 config) ‡	-	-	-	-	-	-	-
CPC Relay Board Condenser Split 50/50 (1 Board + Relay)	5,767	5,767	5,767	5,767	5,767	5,767	5,767
CPC Analog Speed Control Board And Transformer	5,802	5,802	5,802	5,802	5,802	5,802	5,802
DANFOSS Relay Board + XFMR (1x1 thru 2x4 config) ‡	5,563	5,563	5,563	5,563	5,563	5,563	5,563
DANFOSS Relay Boards (2) + XFMR (2x5 thru 2x7 config) ‡	-	-	-	-	-	-	-
DANFOSS Relay Board Condenser Split 50/50 (Relay) ‡	8,170	8,170	8,170	8,170	8,170	8,170	8,170
DANFOSS Analog Speed Control Board And Transformer	6,424	6,424	6,424	6,424	6,424	6,424	6,424
VSEC Stand Alone Motor Control (C450)	CONTACT FACTORY						
	2 X 2	2 X 3	2 X 4	2 X 5	2 X 6	2 X 7	
DISCONNECT OPTIONS // CONTROL BOARDS ‡ also require the contactor option							
CPC Relay Board + Xfmr (1x1 Thru 1x7 Config) ‡	5,543	5,543	5,543	-	-	-	
CPC Relay Boards (2)+ Xfmr (2x5 Thru 2x7 Config) ‡	-	-	-	10,394	10,394	10,394	
CPC Relay Board Condenser Split 50/50 (1 Board + Relay)	5,767	5,767	5,767	5,767	5,767	5,767	
CPC Analog Speed Control Board And Transformer	5,802	5,802	5,802	5,802	5,802	5,802	
DANFOSS Relay Board + Xfmr (1x1 Thru 2x4 Config) ‡	5,563	5,563	5,563	-	-	-	
DANFOSS Relay Boards (2) + Xfmr (2x5 Thru 2x7 Config) ‡	-	-	-	11,406	11,406	11,406	
DANFOSS Relay Board Condenser Split 50/50 (Relay) ‡	8,170	8,170	8,170	8,170	8,170	8,170	
DANFOSS Analog Speed Control Board And Transformer	6,424	6,424	6,424	6,424	6,424	6,424	
VSEC Stand Alone Motor Control (C450)	CONTACT FACTORY						

Notes and references for Options on page 131.

Continued on next page

QUANTUM AIR™

FACTORY MOUNTED 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†	441	882	1,323	1,764	2,205	2,646	3,087
Paired Motor Contactors†	NOT AVAILABLE						
NEMA rated Contactors - Individual†	1,810	3,621	5,431	7,242	9,052	10,863	12,673
NEMA rated Contactors - PAIRED†	NOT AVAILABLE						
Individual motor fuses†	445	890	1,336	1,781	2,226	2,671	3,116
Paired motor fuses†	NOT AVAILABLE						
Individual circuit breakers††	1,234	2,468	3,702	4,935	6,169	7,403	8,637
Paired circuit breakers††	NOT AVAILABLE						
Individual motor terminal boards†	313	625	938	1,251	1,564	1,876	2,189
Paired motor terminal blocks†	NOT AVAILABLE						
Fan toggle switches - per fan (to control contactors)†	186	371	557	742	928	1,113	1,299
Fan toggle switches - PAIRED (to control contactors)†	NOT AVAILABLE						
Fan toggle switches - per fan (to control Motors)†	843	1,685	2,528	3,371	4,214	5,056	5,899
Fan toggle switches - PAIRED (to control Motors)†	NOT AVAILABLE						
	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†	1,764	2,646	3,528	4,410	5,292	6,173	
Paired Motor Contactors†	882	1,323	1,764	2,205	2,646	3,087	
Nema Rated Contactors - Individual†	7,242	10,863	14,484	18,105	21,726	25,347	
Nema Rated Contactors - Paired†	3,621	5,431	7,242	9,052	10,863	12,673	
Individual Motor Fuses†	1,781	2,671	3,562	4,452	5,342	6,233	
Paired Motor Fuses†	890	1,336	1,781	2,226	2,671	3,116	
Individual Circuit Breakers††	4,935	7,403	9,871	12,338	14,806	17,274	
Paired Circuit Breakers††	2,468	3,702	4,935	6,169	7,403	8,637	
Individual Motor Terminal Boards†	1,251	1,876	2,502	3,127	3,752	4,378	
Paired Motor Terminal Blocks†	625	938	1,251	1,564	1,876	2,189	
Fan Toggle Switches - Per Fan (To Control Contactors)†	742	1,113	1,484	1,855	2,226	2,597	
Fan Toggle Switches - Paired (To Control Contactors)†	371	557	742	928	1,113	1,299	
Fan Toggle Switches - Per Fan (To Control Motors)†	3,371	5,056	6,742	8,427	10,112	11,798	
Fan Toggle Switches - Paired (To Control Motors)†	1,685	2,528	3,371	4,214	5,056	5,899	

Notes and references for Options on next page.

QUANTUM AIR™

FACTORY MOUNTED 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	1,246	1,821	2,684	3,294	3,873	4,456	4,999
Stainless Steel Housing	CONTACT APPLICATION ENGINEERING						
Leg Length - 21" Or 30" - Standard Vertical Air Discharge	261	519	777	777	777	958	1,217
Leg Length - 46" (Vertical Air Discharge Only)	311	615	919	919	919	1,133	1,432
Box Style Leg At Every Location- 25" (Vertical Air Discharge Only)	904	1,354	1,808	2,258	2,709	3,159	3,612
Sealtite Wiring To Motor Rail	388	480	728	983	1,211	1,462	1,703
Sealtite Wiring To Electrical Box	1,288	2,571	3,858	5,144	6,427	7,714	9,003
Condenser Base With 18" Legs (Vertical Air Discharge Only)	3,151	4,550	5,950	8,519	10,309	11,817	13,726
Condenser Base With 30 Or 46" Legs (Vertical Air Discharge Only)	3,375	4,996	6,615	8,437	11,418	13,103	15,226
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	3,646	5,311	6,585	7,745	8,907	10,003	
Stainless Steel Housing	CONTACT APPLICATION ENGINEERING						
Leg Length - 21" Or 30" - Standard Vertical Air Discharge	519	777	777	777	958	1,217	
Leg Length - 46" (Vertical Air Discharge Only)	615	919	919	919	1,133	1,432	
Box Style Leg At Every Location- 25" (Vertical Air Discharge Only)	1,354	1,808	2,258	2,709	3,159	3,612	
Sealtite Wiring To Motor Rail	983	1,462	1,945	2,436	2,920	3,390	
Sealtite Wiring To Electrical Box	5,144	7,714	10,285	12,860	15,429	18,001	
Condenser Base With 18" Legs (Vertical Air Discharge Only)	4,550	5,950	8,519	10,309	12,290	14,276	
Condenser Base With 30 Or 46" Legs (Vertical Air Discharge Only)	4,996	6,615	9,413	11,418	13,625	15,834	
Condenser / Receiver Assembly (Vertical Air Discharge Only)	CONTACT APPLICATION ENGINEERING						
Header End Control Panel Mounting (Specify Location Change)	NO ADDITIONAL CHARGE FOR THIS FEATURE						

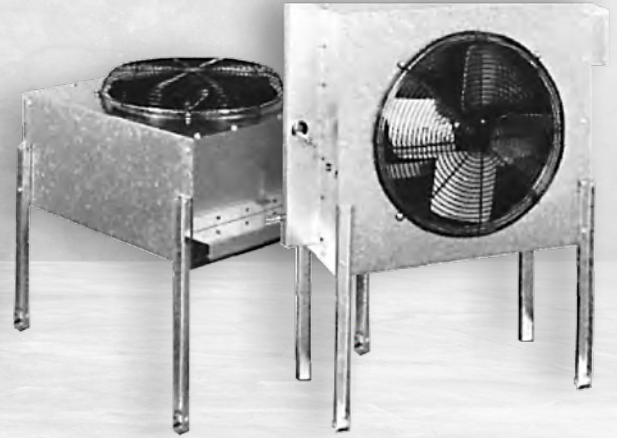
* Multiple valves or manifolds are required for multi-circuit condensers.

** 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.

MULTI-CON SMALL CONDENSER



MODEL NOMENCLATURE

1	2	3	4	5	6	7	8	9	10	11	12	13
K	D	S	007	D	A	2	B	1	2	A	1	A

- | | | | |
|--|--|--|---|
| <p>1 Model Series
K - Kramer</p> <p>2 Unit Type
D - Condenser</p> <p>3 Series
S - Single fan wide</p> <p>4 Capacity
3 Number Characters</p> <p>5 Voltage Code
D - 208-230/1/60
E - 208-230/3/60
F - 460/1/60
G - 460/3/60</p> | <p>6 Motor/Fan Type
A - 1075 RPM, 0.33 HP, Metal Blade
C - 850 RPM, 0.25 HP, Metal Blade
H[^] - 1075 RPM, 0.5 HP Totally Enclosed, Metal Blade
T[^] - 1075 RPM, 3/4 HP, Metal Blade</p> <p>7 Length in Fans - 1 or 2</p> | <p>8 Coil Density
A - 8 FPI
B - 10 FPI
C - 12 FPI
D - 14 FPI</p> <p>9 Coil Material & Coating Options*
1 - Aluminum fins
2 - Copper fins
3 - Al + AST coating
6 - Al + Heresite</p> <p>10 Housing Material & Coatings*
2 - Galvanized</p> | <p>11 Unit Design Configuration
A - Vertical Fan Discharge, Standard Legs
E - Vertical Fan Discharge, 30" Legs
N - Horizontal Fan Discharge, Standard Legs</p> <p>12 Circuit Splitting Options
1 - Full
2 - 50/50
X - Other</p> <p>13 Vintage Code
Single Alphanumeric Character
A - Initial Release</p> |
|--|--|--|---|

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

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

[^] Code H & Code T can be used with E or G voltage only.

MULTI-CON

* represents voltage code.

1075 RPM • 0.33 HP MOTORS • SINGLE PHASE (D & F)					
Model No.	10 FPI List Price	Fan Configuration	Model No.	10 FPI List Price	Fan Configuration
KDS001*A1B12A1A	5,139	1 x 1	KDS007*A2B12A1A	16,416	1 x 2
KDS002*A1B12A1A	7,374		KDS009*A2B12A1A	20,637	
KDS003*A1B12A1A	8,431		KDS011*A2B12A1A	22,432	
KDS005*A1B12A1A	13,308				
1075 RPM • 0.75 HP MOTORS • 3 PHASE (E & G)					
KDS001*T1B12A1A	4,939	1 x 1	KDS007*T2B12A1A	16,225	1 x 2
KDS002*T1B12A1A	6,401		KDS009*T2B12A1A	19,746	
KDS003*T1B12A1A	7,120		KDS011*T2B12A1A	22,109	
KDS005*T1B12A1A	12,807				
850 RPM • 0.25 HP MOTORS • SINGLE PHASE (D & F)					
KDS001*C1B12A1A	5,139	1 x 1	KDS006*C2B12A1A	16,416	1 x 2
KDS002*C1B12A1A	7,374		KDS008*C2B12A1A	20,637	
KDS003*C1B12A1A	8,431		KDS009*C2B12A1A	22,432	
KDS004*C1B12A1A	13,308				
850 RPM • 0.25 HP MOTORS • 3 PHASE (E & G)					
KDS001*C1B12A1A	5,389	1 x 1	KDS006*C2B12A1A	16,917	1 x 2
KDS002*C1B12A1A	7,625		KDS008*C2B12A1A	21,137	
KDS003*C1B12A1A	8,681		KDS009*C2B12A1A	22,932	
KDS004*C1B12A1A	13,558				
1075 RPM • 0.5 HP MOTORS • TEAO • 3 PHASE (E & G)					
KDS001*H1B12A1A	6,820	1 x 1	KDS007*H2B12A1A	19,991	1 x 2
KDS002*H1B12A1A	8,285		KDS009*H2B12A1A	23,513	
KDS003*H1B12A1A	9,007		KDS011*H2B12A1A	25,875	
KDS005*H1B12A1A	14,688				

5. VOLTAGE CODE

6. MOTOR TYPE

Voltage	Available with Motor Code:	Motor	Available with Voltage Code:
D - 208-230/1/60	A and C	A - 1075 RPM, 0.33 HP	D and F
E - 208-230/3/60	C, H, and T	C - 850 RPM, 0.25 HP	D, E, F, and G
F - 460/1/60	A and C	H - 1075 RPM, 0.5 HP	E and G (3 Phase units only)
G - 460/3/60	C, H, and T	T - 1075 RPM, 0.75 HP	E and G (3 Phase units only)

MULTI-CON

7. INDICATES LENGTH IN FANS (1 OR 2)

8. 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	(604)	-	770	1,539
1 x 2	(1,206)	-	1,539	3,069

9. COIL MATERIAL & COATING OPTIONS**

Aluminum fins (standard) / Copper fins

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

10. HOUSING MATERIAL & COATING OPTIONS**

Galvanized (standard)

11. 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	262	262
N - Horizontal fan discharge, standard legs	-	-

12. 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

- 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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