

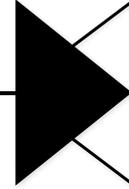


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EQUIPMENT PRICE LIST

MARCH 2026

COMMERCIAL REFRIGERATION



ORDERS

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



256-259-7400
Customer Service

1-800-288-9488
Equipment Orders

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



equipment@htpg.com

parts@htpg.com



Kramer.HTPG.com

WARRANTY

The Seller warrants against defect in materials and workmanship in products which it manufactures for (1) year from the date of installation or up to 18 (eighteen) months from the date of shipment, whichever event occurs first, when properly installed and operated under normal use. This guarantee does not include any labor or other charges made outside of the Seller's factory for replacement or repair of defective parts unless specifically stated in the body of the Sellers invoice. On parts not manufactured by HTPG, such as motors, controls, valves and compressors we extend to the Buyer the same warranties made to us by the manufacturer.

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

Claims must be submitted to our Warranty Group within 90 days of the repair.

To submit a claim, visit <https://www.htpg.com/submit-a-claim/>

VIEW TERMS & WARRANTY

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STEP-IN UNIT COOLERS



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

ASLA/ASLE SLIM TEMP

Small Walk-In Coolers,
Freezers, and Display Cases

BTUH

Air Defrost 4,800 to 17,300

Electric Defrost 4,600 to 16,200



MODEL NOMENCLATURE

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	

FEATURES & OPTIONS

● Standard ○ Optional

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	●
Protective Russ-Proof* epoxy coil coating extends the life of the coil	○
FinKote2 Coating - premium protection for all fin and tube coils	○

ASLA/E

AIR DEFROST ∞ STANDARD COIL

115 V		230 V	
Model No.	List Price (\$US)	Model No.	List Price (\$US)
ASLA25048ADA	6,293	ASLA25048DDA	6,293
ASLA25061ADA	6,478	ASLA25061DDA	6,478
ASLA35073ADA	6,946	ASLA35073DDA	6,946
ASLA45098ADA	8,344	ASLA45098DDA	8,344
ASLA55122ADA	9,780	ASLA55122DDA	9,780
ASLA65158ADA	11,117	ASLA65158DDA	11,117

AIR DEFROST ∞ COATED COIL (RUSS-PROOF*)

115 V		230 V	
Model No.	List Price (\$US)	Model No.	List Price (\$US)
ASLA25048ADARP	8,421	ASLA25048DDARP	8,421
ASLA25061ADARP	8,548	ASLA25061DDARP	8,548
ASLA35073ADARP	9,204	ASLA35073DDARP	9,204
ASLA45098ADARP	10,484	ASLA45098DDARP	10,484
ASLA55122ADARP	11,933	ASLA55122DDARP	11,933
ASLA65158ADARP	13,424	ASLA65158DDARP	13,424

ELECTRIC DEFROST

230 V	
Model No.	List Price (\$US)
ASLE25046DDA	6,733
ASLE25058DDA	7,045
ASLE35070DDA	7,574
ASLE45094DDA	9,085
ASLE55117DDA	10,575
ASLE65150DDA	11,991

See page 5 for nomenclature

\$78 List Adder for 3-prong Electrical Connector

* Must specify white or black Russ-Proof

7 **STEP-IN** UNIT COOLERS

ASLA/E

FACTORY MOUNTED OPTIONS

No. of Fans	TXV	EEV ¹	LLSV ²	Mechanical Thermostat	Finkote2 Coating
2	792	2,546	574	584	2,500
3					2,750
4					3,000
5					3,250
6					3,500

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

Option Name	Option Description	List Price (\$US)
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607

WALK-IN UNIT COOLERS



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 Cooler & Freezer Applications

BTUH

Air Defrost 4,100 to 45,900

Electric Defrost 2,700 to 33,000

Hot Gas Defrost 2,700 to 33,000



MODEL NOMENCLATURE // CONFIGURABLE BASE MODEL

K	L	6	E	042	E	D	A
Brand	Connections ¹	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	L
Refrigerant	Pre-assembly Code
A = R404A R = EcoNet® Approved Refrigerants ³ S = R407A, R448A, R449A/B	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

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°FTD (Air Defrost) and -20°FSS/10°FTD (Electric Defrost).
- CO2 and Glycol Next-Gen All Temp Unit Coolers available. If required, please contact factory.

NEXT-GEN ALL TEMP LOW PROFILE

Small to Medium Cooler & Freezer Applications

BTUH

Air Defrost 4,100 to 45,900

Electric Defrost 2,700 to 33,000

Hot Gas Defrost 2,700 to 33,000



FEATURES & OPTIONS

● Standard ○ Optional

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

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	3,260	KL6A041DDA	3,260
	KL6A052ADA	3,348	KL6A052DDA	3,348
	KL6A066ADA	3,886	KL6A066DDA	3,886
2	KL6A073ADA	5,078	KL6A073DDA	5,078
	KL6A094ADA	5,752	KL6A094DDA	5,752
	KL6A117ADA	6,042	KL6A117DDA	6,042
	KL6A130ADA	6,452	KL6A130DDA	6,452
3	KL6A141ADA	7,805	KL6A141DDA	7,805
	KL6A161ADA	8,667	KL6A161DDA	8,667
	KL6A181ADA	9,446	KL6A181DDA	9,446
4	KL6A195ADA	10,177	KL6A195DDA	10,177
	KL6A235ADA	12,342	KL6A235DDA	12,342
	KL6A260ADA	13,450	KL6A260DDA	13,450
5	KL6A295ADA	15,423	KL6A295DDA	15,423
6	KL6A330ADA	16,554	KL6A330DDA	16,554
	KL6A390ADA	18,586	KL6A390DDA	18,586

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**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Pkg w/Sporlan SER	KE2 Evaporator Defrost Control Package ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	3,275	7,353	574	584	876	1,029	2,775
2	792	2,546	3,275	7,353	574	584	876	1,300	3,050
3	792	2,546	3,275	7,353	574	584	876	1,578	3,350
4	792	2,546	3,275	7,353	574	584	876	1,814	3,610
5	792	2,546	3,275	7,353	665	584	876	2,071	3,900
6	1,489	2,546	3,275	7,353	665	584	876	2,355	4,170

See notes on next page

NEXT-GEN ALL TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED⁴ MODELS // CODE C // 115 V
 Models include mounted TXV, LLSV, and Electronic Thermostat⁵

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	5,502
	KL6A052ADAAC	KL6A052ADASC	5,590
	KL6A066ADAAC	KL6A066ADASC	6,128
2	KL6A073ADAAC	KL6A073ADASC	7,320
	KL6A094ADAAC	KL6A094ADASC	7,994
	KL6A117ADAAC	KL6A117ADASC	8,284
	KL6A130ADAAC	KL6A130ADASC	8,694
3	KL6A141ADAAC	KL6A141ADASC	10,047
	KL6A161ADAAC	KL6A161ADASC	10,909
	KL6A181ADAAC	KL6A181ADASC	11,688
4	KL6A195ADAAC	KL6A195ADASC	12,419
	KL6A235ADAAC	KL6A235ADASC	14,584
	KL6A260ADAAC	KL6A260ADASC	15,692
5	KL6A295ADAAC	KL6A295ADASC	17,756
6	KL6A330ADAAC	KL6A330ADASC	19,584
	KL6A390ADAAC	KL6A390ADASC	21,616

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

4. 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.
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).

NEXT-GEN ALL TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE C // 230 V
 Models 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	5,502
	KL6A052DDAAC	KL6A052DDASC	5,590
	KL6A066DDAAC	KL6A066DDASC	6,128
2	KL6A073DDAAC	KL6A073DDASC	7,320
	KL6A094DDAAC	KL6A094DDASC	7,994
	KL6A117DDAAC	KL6A117DDASC	8,284
	KL6A130DDAAC	KL6A130DDASC	8,694
3	KL6A141DDAAC	KL6A141DDASC	10,047
	KL6A161DDAAC	KL6A161DDASC	10,909
	KL6A181DDAAC	KL6A181DDASC	11,688
4	KL6A195DDAAC	KL6A195DDASC	12,419
	KL6A235DDAAC	KL6A235DDASC	14,584
	KL6A260DDAAC	KL6A260DDASC	15,692
5	KL6A295DDAAC	KL6A295DDASC	17,756
6	KL6A330DDAAC	KL6A330DDASC	19,584
	KL6A390DDAAC	KL6A390DDASC	21,616

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°FSST/10°FTD (Air Defrost) and -20°FSST/10°FTD (Electric Defrost).

NEXT-GEN ALL TEMP • LOW PROFILE

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

No. of Fans	Dual Speed EC Motors - 6 FPI - 115 V	
	EcoNet [®] Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6A041ADARE	6,535
	KL6A052ADARE	6,623
	KL6A066ADARE	7,161
2	KL6A073ADARE	8,353
	KL6A094ADARE	9,027
	KL6A117ADARE	9,317
	KL6A130ADARE	9,727
3	KL6A141ADARE	11,080
	KL6A161ADARE	11,942
	KL6A181ADARE	12,721
4	KL6A195ADARE	13,452
	KL6A235ADARE	15,617
	KL6A260ADARE	16,725
5	KL6A295ADARE	18,698
6	KL6A330ADARE	19,829
	KL6A390ADARE	21,861

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.

Final Price Book release with EcoNet[®] 1.0 *while supplies last

NEXT-GEN ALL TEMP • LOW PROFILE

AIR DEFROST PRE-CONFIGURED¹ MODELS // CODE RSF // ECONET[®] 2.0 WITH SER VALVE
 Models 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	KL6A041ADARSF	6,535
	KL6A052ADARSF	6,623
	KL6A066ADARSF	7,161
2	KL6A073ADARSF	8,353
	KL6A094ADARSF	9,027
	KL6A117ADARSF	9,317
	KL6A130ADARSF	9,727
3	KL6A141ADARSF	11,080
	KL6A161ADARSF	11,942
	KL6A181ADARSF	12,721
4	KL6A195ADARSF	13,452
	KL6A235ADARSF	15,617
	KL6A260ADARSF	16,725
5	KL6A295ADARSF	18,698
6	KL6A330ADARSF	19,829
	KL6A390ADARSF	21,861

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	5,210	KL6A041ADASL	5,210
	KL6A052ADAAL	5,298	KL6A052ADASL	5,298
	KL6A066ADAAL	5,836	KL6A066ADASL	5,836
2	KL6A073ADAAL	7,028	KL6A073ADASL	7,028
	KL6A094ADAAL	7,702	KL6A094ADASL	7,702
	KL6A117ADAAL	7,992	KL6A117ADASL	7,992
	KL6A130ADAAL	8,402	KL6A130ADASL	8,402
3	KL6A141ADAAL	9,755	KL6A141ADASL	9,755
	KL6A161ADAAL	10,617	KL6A161ADASL	10,617
	KL6A181ADAAL	11,396	KL6A181ADASL	11,396
4	KL6A195ADAAL	12,127	KL6A195ADASL	12,127
	KL6A235ADAAL	14,292	KL6A235ADASL	14,292
	KL6A260ADAAL	15,400	KL6A260ADASL	15,400
5	KL6A295ADAAL	17,464	KL6A295ADASL	17,464
6	KL6A330ADAAL	19,292	KL6A330ADASL	19,292
	KL6A390ADAAL	21,324	KL6A390ADASL	21,324

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°FSSST/10°FDT (Air Defrost) and -20°FSSST/10°FDT (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	4,448	KL4E027DDA	4,269
	KL6E042DDA	4,947	KL4E032DDA	4,748
	KL6E049DDA	5,444	KL4E038DDA	5,227
2	KL6E066DDA	6,860	KL4E051DDA	6,584
	KL6E077DDA	7,216	KL4E064DDA	6,930
	KL6E090DDA	7,428	KL4E080DDA	7,132
	KL6E105DDA	8,705	Not Available	
3	KL6E121DDA	9,732	KL4E094DDA	9,340
	KL6E142DDA	11,103	KL4E110DDA	10,662
4	KL6E162DDA	13,024	KL4E125DDA	12,500
	KL6E182DDA	14,372	KL4E141DDA	13,794
5	KL6E200DDA	16,161	KL4E155DDA	15,518
6	KL6E244DDA	18,959	KL4E195DDA	18,201
	KL6E281DDA	20,991	KL4E230DDA	20,151

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**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)									
	TXV	EEV ¹	EcoNet® 2.0 Control Package with Sporlan SER	KE2 Evaporator Defrost Control ²	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	3,275	7,353	574	584	876	603	1,029	2,775
2	792	2,546	3,275	7,353	574	584	876	603	1,300	3,050
3	792	2,546	3,275	7,353	574	584	876	603	1,578	3,350
4	792	2,546	3,275	7,353	574	584	876	603	1,814	3,610
5	792	2,546	3,275	7,353	665	584	876	603	2,071	3,900
6	1,489	2,546	3,275	7,353	665	584	876	603	2,355	4,170

See notes on next page.

NEXT-GEN ALL TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED⁴ MODELS // CODE C
 Models include mounted TXV, LLSV, and Electronic Thermostat⁵

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	6,690
	KL6E042DDAAC	KL6E042DDASC	7,189
	KL6E049DDAAC	KL6E049DDASC	7,686
2	KL6E066DDAAC	KL6E066DDASC	9,102
	KL6E077DDAAC	KL6E077DDASC	9,458
	KL6E090DDAAC	KL6E090DDASC	9,670
	KL6E105DDAAC	KL6E105DDASC	10,947
3	KL6E121DDAAC	KL6E121DDASC	11,974
	KL6E142DDAAC	KL6E142DDASC	13,345
4	KL6E162DDAAC	KL6E162DDASC	15,266
	KL6E182DDAAC	KL6E182DDASC	16,614
5	KL6E200DDAAC	KL6E200DDASC	18,494
6	KL6E244DDAAC	KL6E244DDASC	21,989
	KL6E281DDAAC	KL6E281DDASC	24,021

ELECTRIC DEFROST CONFIGURABLE OPTIONS (PREVIOUS PAGE)

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

4. 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.
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).

NEXT-GEN ALL TEMP • LOW PROFILE

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

No. of Fans	Dual Speed EC Motors - 6 FPI - 230 V	
	EcoNet [®] Control Package ^{2,3,4}	
	Model No.	List Price (\$US)
1	KL6E035DDARE	7,723
	KL6E042DDARE	8,222
	KL6E049DDARE	8,719
2	KL6E066DDARE	10,135
	KL6E077DDARE	10,491
	KL6E090DDARE	10,703
	KL6E105DDARE	11,980
3	KL6E121DDARE	13,007
	KL6E142DDARE	14,378
4	KL6E162DDARE	16,299
	KL6E182DDARE	17,647
5	KL6E200DDARE	19,436
6	KL6E244DDARE	22,234
	KL6E281DDARE	24,266

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

Final Price Book release with EcoNet[®] 1.0 *while supplies last

NEXT-GEN ALL TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE RSF // ECONET[®] 2.0 WITH SER 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	KL6E035DDARSF	7,723
	KL6E042DDARSF	8,222
	KL6E049DDARSF	8,719
2	KL6E066DDARSF	10,135
	KL6E077DDARSF	10,491
	KL6E090DDARSF	10,703
	KL6E105DDARSF	11,980
3	KL6E121DDARSF	13,007
	KL6E142DDARSF	14,378
4	KL6E162DDARSF	16,299
	KL6E182DDARSF	17,647
5	KL6E200DDARSF	19,436
6	KL6E244DDARSF	22,234
	KL6E281DDARSF	24,266

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

NEXT-GEN ALL TEMP • LOW PROFILE

ELECTRIC DEFROST PRE-CONFIGURED¹ MODELS // CODE L
 Models 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	6,398	KL6E035DDASL	6,398
	KL6E042DDAAL	6,897	KL6E042DDASL	6,897
	KL6E049DDAAL	7,394	KL6E049DDASL	7,394
2	KL6E066DDAAL	8,810	KL6E066DDASL	8,810
	KL6E077DDAAL	9,166	KL6E077DDASL	9,166
	KL6E090DDAAL	9,378	KL6E090DDASL	9,378
	KL6E105DDAAL	10,655	KL6E105DDASL	10,655
3	KL6E121DDAAL	11,682	KL6E121DDASL	11,682
	KL6E142DDAAL	13,053	KL6E142DDASL	13,053
4	KL6E162DDAAL	14,974	KL6E162DDASL	14,974
	KL6E182DDAAL	16,322	KL6E182DDASL	16,322
5	KL6E200DDAAL	18,202	KL6E200DDASL	18,202
6	KL6E244DDAAL	21,697	KL6E244DDASL	21,697
	KL6E281DDAAL	23,729	KL6E281DDASL	23,729

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°FSST/10°FTD (Air Defrost) and -20°FSST/10°FTD (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	4,331	KL4G027ADA	4,156
	KL6G042ADA	4,889	KL4G032ADA	4,693
	KL6G049ADA	5,516	KL4G038ADA	5,298
2	KL6G066ADA	6,624	KL4G051ADA	6,360
	KL6G077ADA	7,333	KL4G064ADA	7,040
	KL6G090ADA	7,772	KL4G080ADA	7,463
	KL6G105ADA	9,111	Not Available	
3	KL6G121ADA	9,567	KL4G094ADA	9,181
	KL6G142ADA	11,197	KL4G110ADA	10,749
4	KL6G162ADA	12,436	KL4G125ADA	11,936
	KL6G182ADA	13,931	KL4G141ADA	13,371
5	KL6G200ADA	14,726	KL4G155ADA	14,138
6	KL6G244ADA	17,832	KL4G195ADA	17,119
	KL6G281ADA	19,858	KL4G230ADA	19,064

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	4,428	KL4G027DDA	4,254
	KL6G042DDA	5,003	KL4G032DDA	4,803
	KL6G049DDA	5,645	KL4G038DDA	5,423
2	KL6G066DDA	7,049	KL4G051DDA	6,767
	KL6G077DDA	6,116	KL4G064DDA	7,443
	KL6G090DDA	8,296	KL4G080DDA	7,964
	KL6G105DDA	9,636	Not Available	
3	KL6G121DDA	10,179	KL4G094DDA	9,771
	KL6G142DDA	11,599	KL4G110DDA	11,135
4	KL6G162DDA	13,221	KL4G125DDA	12,693
	KL6G182DDA	14,959	KL4G141DDA	14,358
5	KL6G200DDA	15,654	KL4G155DDA	15,029
6	KL6G244DDA	19,136	KL4G195DDA	18,372
	KL6G281DDA	21,424	KL4G230DDA	20,568

See notes on next page

NEXT-GEN ALL TEMP • LOW PROFILE

HOT GAS DEFROST CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)							
	TXV	EEV ¹	LLSV ³	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	574	584	876	603	1,029	2,775
2	792	2,546	574	584	876	603	1,300	3,050
3	792	2,546	574	584	876	603	1,578	3,350
4	792	2,546	574	584	876	603	1,814	3,610
5	792	2,546	665	584	876	603	2,071	3,900
6	1,489	2,546	665	584	876	603	2,355	4,170

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	4,331	KL4H027ADA	4,156
	KL6H042ADA	4,889	KL4H032ADA	4,693
	KL6H049ADA	5,516	KL4H038ADA	5,298
2	KL6H066ADA	6,624	KL4H051ADA	6,360
	KL6H077ADA	7,333	KL4H064ADA	7,040
	KL6H090ADA	7,772	KL4H080ADA	7,463
	KL6H105ADA	9,111	Not Available	
3	KL6H121ADA	9,567	KL4H094ADA	9,181
	KL6H142ADA	11,197	KL4H110ADA	10,749
4	KL6H162ADA	12,436	KL4H125ADA	11,936
	KL6H182ADA	13,931	KL4H141ADA	13,371
5	KL6H200ADA	14,726	KL4H155ADA	14,138
6	KL6H244ADA	17,832	KL4H195ADA	17,119
	KL6H281ADA	19,858	KL4H230ADA	19,064

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	4,428	KL4H027DDA	4,254
	KL6H042DDA	5,003	KL4H032DDA	4,803
	KL6H049DDA	5,645	KL4H038DDA	5,423
2	KL6H066DDA	7,049	KL4H051DDA	6,767
	KL6H077DDA	7,756	KL4H064DDA	7,443
	KL6H090DDA	8,296	KL4H080DDA	7,964
	KL6H105DDA	9,636	Not Available	
3	KL6H121DDA	10,179	KL4H094DDA	9,771
	KL6H142DDA	11,599	KL4H110DDA	11,135
4	KL6H162DDA	13,221	KL4H125DDA	12,693
	KL6H182DDA	14,959	KL4H141DDA	14,358
5	KL6H200DDA	15,654	KL4H155DDA	15,029
6	KL6H244DDA	19,136	KL4H195DDA	18,372
	KL6H281DDA	21,424	KL4H230DDA	20,568

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

No. of Fans	Factory Mounted Options // List Price Adder (\$US)							
	TXV	EEV ¹	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Termination Switch/Fan Delay	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	574	584	876	603	1,029	2,775
2	792	2,546	574	584	876	603	1,300	3,050
3	792	2,546	574	584	876	603	1,578	3,350
4	792	2,546	574	584	876	603	1,814	3,610
5	792	2,546	665	584	876	603	2,071	3,900
6	1,489	2,546	665	584	876	603	2,355	4,170

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. 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.

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	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to +100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to +100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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

DUAL-RATED NEXT-GEN ALL TEMP LOW PROFILE

Small to Medium Cooler & Freezer Applications

BTUH

Air Defrost 4,100 to 37,500

Electric Defrost 4,200 to 23,700



MODEL NOMENCLATURE // CONFIGURABLE BASE MODEL

K	D	L	6	A	050	A	D	A
Brand	Refrigerant Class	Connections	Fins Per Inch (FPI)	Defrost Type	Capacity	Voltage	Motor Type	Vintage
K = Kramer	D = Dual-Rated A1/A2L (R404A, R407A, R448A, R449A/B, R454A, R454C, R455A)	L = Standard	6 FPI	A = Air E = Electric	# x 100 = BTUH	A = 115/1/60 D = 230/1/60	D = Dual Speed EC	

FEATURES & OPTIONS

● Standard ○ Optional

Textured aluminum construction	●
All units are provided with sweat refrigerant connections	●
All units suitable for use with R404A, R407A, R407C, R407F, R448A, R449A/B	●
Units suitable for A2L refrigerants (R454A, R454C and R455A) with installed A2L conversion kit (sold separately)	○
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	●

NEXT-GEN ALL TEMP • LOW PROFILE

DUAL-RATED AIR DEFROST BASE MODEL WITHOUT A2L CONVERSION KIT

No. of Fans	Dual Speed EC Motors	
	115 V	
	Model No.	List Price (\$US)
1	KDL6A050ADA	3,308
	KDL6A062ADA	3,398
	KDL6A081ADA	3,945
2	KDL6A088ADA	5,154
	KDL6A113ADA	5,838
	KDL6A141ADA	6,133
	KDL6A159ADA	6,549
3	KDL6A170ADA	7,923
	KDL6A196ADA	8,797
	KDL6A220ADA	9,682
4	KDL6A234ADA	10,534
	KDL6A289ADA	13,207
	KDL6A316ADA	14,458
5	KDL6A375ADA	16,580

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

CONVERSION KIT PRICING

Part No.	Part Description	List Price (\$US)
08543357	A2L Conversion Kit - Air Defrost	1,745
08543358	A2L Conversion Kit - Electric Defrost	1,946
08543559	A2L Conversion Kit - Additional Sensor (Required on 5 Fan Units)	593

NEXT-GEN ALL TEMP • LOW PROFILE

DUAL-RATED BASE ELECTRICAL DEFROST MODEL WITHOUT A2L CONVERSION KIT

No. of Fans	Dual Speed EC Motors	
	230 V	
	Model No.	List Price (\$US)
1	KDL6E051DDA	5,021
	KDL6E058DDA	5,525
2	KDL6E079DDA	6,963
	KDL6E092DDA	7,324
	KDL6E110DDA	7,540
	KDL6E129DDA	8,835
3	KDL6E148DDA	9,879
	KDL6E173DDA	11,492
4	KDL6E194DDA	13,936
	KDL6E218DDA	15,449
5	KDL6E237DDA	17,373

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

CONVERSION KIT PRICING

Part No.	Part Description	List Price (\$US)
08543357	A2L Conversion Kit - Air Defrost	1,745
08543358	A2L Conversion Kit - Electric Defrost	1,946
08543559	A2L Conversion Kit - Additional Sensor (Required on 5 Fan Units)	593

DUAL-RATED ALL TEMP • LOW PROFILE

Shipped Loose Accessories

SHUT-OFF VALVES - REQUIRED FOR A2L REFRIGERANTS ONLY

No. of Fans	List Price (\$US)	
	Solenoid Shut-Off Valve (SSOV)	Check Shut-Off Valve (CSOV)
1	850	224
2	850	224
3	850	224
4	850	224
5	887	324
6	887	324

All A2L Evaporators require SSOV and CSOV isolation valves, which must be shipped loose for field installation.

CENTER MOUNT LOW HEIGHT

Small to Medium
Cooler & Freezer Applications

BTUH

Air Defrost 4,100 to 30,400

Electric Defrost 3,700 to 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	

FEATURES & OPTIONS

● Standard ○ Optional

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	●
Coated aluminum fins	○
EcoNet® Enabled Unit Cooler controller (factory-installed)	○
EcoNet® Command Center (loose)	○

Continued on next page

CENTER MOUNT LOW HEIGHT

Small to Medium
Cooler & Freezer Applications

BTUH

Air Defrost 4,100 to 30,400

Electric Defrost 3,700 to 32,400



FEATURES & OPTIONS	● Standard	○ Optional
Thermostat - Mechanical or Electric (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Thermostatic Expansion Valve (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Electronic Expansion Valve (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Liquid Line Solenoid Available Loose for field installation	<input checked="" type="radio"/>	<input type="radio"/>
Insulated Drain Pan	<input checked="" type="radio"/>	<input type="radio"/>
Painted Cabinet (White or Black)	<input checked="" type="radio"/>	<input type="radio"/>
Stainless Steel Cabinet	<input checked="" type="radio"/>	<input type="radio"/>
Coated Coil (Russproof, Heresite, Bronz-Glow, or Electrofin®)	<input checked="" type="radio"/>	<input type="radio"/>
Heat Exchanger (loose)	<input checked="" type="radio"/>	<input type="radio"/>

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	4,313	KE6A041DDA	4,531
2	KE6A070ADA	6,260	KE6A070DDA	6,536
	KE6A084ADA	6,865	KE6A084DDA	7,148
3	KE6A104ADA	7,494	KE6A104DDA	7,835
	KE6A128ADA	9,366	KE6A128DDA	9,723
4	KE6A141ADA	10,326	KE6A141DDA	10,739
	KE6A169ADA	11,889	KE6A169DDA	12,319
5	KE6A204ADA	12,972	KE6A204DDA	13,465
	KE6A258ADA	15,695	KE6A258DDA	17,824

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

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)							
	TXV	EEV ¹	EcoNet® 2.0 Control Pkg w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	3,275	574	584	876	267	3,610
2	792	2,546	3,275	574	584	876	336	3,610
3	792	2,546	3,275	574	584	876	407	3,900
4	792	2,546	3,275	574	584	876	477	4,170
5	792	2,546	3,275	574	584	876	549	5,000

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 page 36 • 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

Dual Speed EC Motors - 230 V

No. of Fans	6 FPI		No. of Fans	4 FPI	
	Model No.	List Price (\$US)		Model No.	List Price (\$US)
1	KE6E037DDA	6,794	1	KE4E037DDA	6,794
	KE6E045DDA	9,146	2	KE4E075DDA	9,447
2	KE6E075DDA	9,447	3	KE4E107DDA	12,781
	KE6E089DDA	11,885	4	KE4E149DDA	16,089
3	KE6E108DDA	12,901	5	KE4E186DDA	18,201
	KE6E125DDA	13,055		KE4E234DDA	20,932
4	KE6E137DDA	15,688	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.		
	KE6E182DDA	16,601			
5	KE6E221DDA	19,774			
	KE6E278DDA	22,197			

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)							
	TXV	EEV ¹	EcoNet® 2.0 Control Pkg w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	3,275	574	584	876	267	3,610
2	792	2,546	3,275	574	584	876	336	3,610
3	792	2,546	3,275	574	584	876	407	3,900
4	792	2,546	3,275	574	584	876	477	4,170
5	792	2,546	3,275	574	584	876	549	5,000

- 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	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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
Cooler Applications

BTUH

Air Defrost 4,300 to 32,500

Electric Defrost 4,300 to 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 4 FPI	A = Air E = Electric	# x 100 = BTUH	A = 115/1/60 D = 230/1/60	D = Dual Speed EC	

FEATURES & OPTIONS

● Standard ○ Optional

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	●
Coated aluminum fins	○
EcoNet® Enabled Unit Cooler controller (factory-installed)	○
EcoNet® Command Center (loose)	○

Continued on next page

CENTER MOUNT LOW VELOCITY

Small to Medium
Cooler Applications

BTUH

Air Defrost 4,300 to 32,500

Electric Defrost 4,300 to 32,500



FEATURES & OPTIONS	● Standard	○ Optional
Thermostat - Mechanical or Electric (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Thermostatic Expansion Valve (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Electronic Expansion Valve (mounted or loose)	<input checked="" type="radio"/>	<input type="radio"/>
Liquid Line Solenoid Available Loose for field installation	<input checked="" type="radio"/>	<input type="radio"/>
Insulated Drain Pan	<input checked="" type="radio"/>	<input type="radio"/>
Painted Cabinet (White or Black)	<input checked="" type="radio"/>	<input type="radio"/>
Stainless Steel Cabinet	<input checked="" type="radio"/>	<input type="radio"/>
Coated Coil (Russproof, Heresite, Bronz-Glow, or Electrofin®)	<input checked="" type="radio"/>	<input type="radio"/>
Heat Exchanger (loose)	<input checked="" type="radio"/>	<input type="radio"/>

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	6,807	KV6A043DDA	7,077	KV6E043DDA	7,836
	KV6A053ADA	7,049	KV6A053DDA	7,332	KV6E053DDA	8,226
2	KV6A085ADA	8,210	KV6A085DDA	8,540	KV6E085DDA	9,622
	KV6A106ADA	10,069	KV6A106DDA	10,473	KV6E106DDA	11,638
3	KV6A129ADA	11,687	KV6A129DDA	12,156	KV6E129DDA	13,661
	KV6A158ADA	13,113	KV6A158DDA	13,641	KV6E158DDA	15,260
4	KV6A176ADA	15,981	KV6A176DDA	16,621	KV6E176DDA	18,690
	KV6A218ADA	18,072	KV6A218DDA	18,795	KV6E218DDA	21,016
5	KV6A271ADA	19,818	KV6A271DDA	20,612	KV6E271DDA	23,411

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 ∞ AIR & ELECTRIC DEFROST

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)							
	TXV	EEV ¹	EcoNet® 2.0 Control Pkg w/ Sporlan SER	LLSV ²	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	3,275	574	584	876	267	3,610
2	792	2,546	3,275	574	584	876	336	3,610
3	792	2,546	3,275	574	584	876	407	3,900
4	792	2,546	3,275	574	584	876	477	4,170
5	792	2,546	3,275	574	584	876	549	5,000

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	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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 Cooler & Freezer Applications
in boxes <3,000 sq. ft.

BTUH

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

FEATURES & OPTIONS

● Standard ○ Optional

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.	●

Continued on next page

MEDIUM PROFILE

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

BTUH

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



FEATURES & OPTIONS	● Standard ○ Optional
UL/cUL certified for use with multiple refrigerants	●
NSF approved for use in food preparation areas	●
Available as single through three fan models	●
EcoNet® Enabled Controller (factory installed)	○
EcoNet® Command Center (loose)	○
Thermostat - Mechanical or Electric (mounted or loose)	○
Thermostatic Expansion Valve (mounted or loose)	○
Electronic Expansion Valve (mounted or loose)	○
Liquid Line Solenoid Valve (mounted or loose)	○
Insulated Drain Pan	○
Painted Cabinet (White or Black)	○
Stainless Steel Cabinet	○
Coated Coil (Russproof, Heresite, Bronz-Glow, Electrofin®, or Finkote2)	○
Heat Exchanger (loose)	○

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	11,220	KM6A182DDA	11,443	KM6A182FDA	12,118
	KM6A220ADA	13,537	KM6A220DDA	13,807	KM6A220FDA	14,622
2	KM6A276ADA	19,031	KM6A276DDA	19,413	KM6A276FDA	20,555
	KM6A370ADA	24,056	KM6A370DDA	24,537	KM6A370FDA	25,982
	KM6A442ADA	27,906	KM6A442DDA	28,465	KM6A442FDA	30,139
3	KM6A549ADA	33,865	KM6A549DDA	34,544	KM6A549FDA	36,574
	KM6A658ADA	35,675	KM6A658DDA	36,390	KM6A658FDA	38,527
4	KM6A730ADA	45,154	KM6A730DDA	46,059	KM6A730FDA	48,765
	KM6A875ADA	47,566	KM6A875DDA	48,520	KM6A875FDA	51,369

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

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. 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	Finkote2 Coating
1	792	2,546	4,545	12,622	1,140	584	876	822	3,700
2	1,489	2,546	4,545	12,622	1,140	584	876	1,354	5,800
3	1,489	2,546	4,545	12,622	1,418	584	876	1,812	8,700
4	1,489	2,546	4,545	12,622	1,418	584	876	2,269	11,580

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 50 • Alternative Cabinets (Painted or Stainless Steel) and Coil Coating (RussProof, Bronz-Glow, Electrofin, & Finkote2) options are available. Contact Application Engineering, or a Sales Representative, if you are interested in these options.

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	14,339	KM6D181EDA	14,480
		KM6D219DDA	18,728	KM6D219EDA	18,917
	2	KM6D275DDA	21,126	KM6D275EDA	21,340
		KM6D369DDA	23,523	KM6D369EDA	23,760
		KM6D441DDA	30,344	KM6D441EDA	30,650
	3	Not Available		KM6D548EDA	34,719
		Not Available		KM6D657EDA	38,048
	4	Not Available		KM6D729EDA	46,292
		Not Available		KM6D874EDA	50,731

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	15,495	KM6D181GDA	15,642
		KM6D219FDA	20,241	KM6D219GDA	20,430
	2	KM6D275FDA	22,831	KM6D275GDA	23,047
		KM6D369FDA	25,422	KM6D369GDA	25,661
		KM6D441FDA	32,794	KM6D441GDA	33,099
	3	KM6D548FDA	37,150	KM6D548GDA	37,496
		KM6D657FDA	40,712	KM6D657GDA	41,094
	4	KM6D729FDA	49,534	KM6D729GDA	49,995
		KM6D874FDA	54,282	KM6D874GDA	54,792

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.

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	14,339	KM6E153EDA	14,480
		KM6E184DDA	18,728	KM6E184EDA	18,917
	2	KM6E311DDA	23,523	KM6E311EDA	23,760
		KM6E374DDA	30,344	KM6E374EDA	30,650
	3	Not Available		KM6E469EDA	34,719
		Not Available		KM6E564EDA	38,048
	4	Not Available		KM6E624EDA	46,292
		Not Available		KM6E750EDA	50,731
4 FPI	1	KM4E110DDA	13,765	KM4E110EDA	13,903
		KM4E143DDA	17,980	KM4E143EDA	18,162
	2	KM4E232DDA	22,584	KM4E232EDA	22,811
		KM4E288DDA	29,129	KM4E288EDA	29,424
	3	Not Available		KM4E336EDA	33,333
		Not Available		KM4E419EDA	36,531
	4	Not Available		KM4E447EDA	44,443
		Not Available		KM4E557EDA	48,708

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.

MEDIUM PROFILE

LOW TEMP ELECTRIC DEFROST CONFIGURABLE BASE MODELS

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	15,495	KM6E153GDA	15,642
		KM6E184FDA	20,241	KM6E184GDA	20,430
	2	KM6E311FDA	25,422	KM6E311GDA	25,661
		KM6E374FDA	32,794	KM6E374GDA	33,099
	3	KM6E469FDA	37,150	KM6E469GDA	37,496
		KM6E564FDA	40,712	KM6E564GDA	41,094
	4	KM6E624FDA	49,534	KM6E624GDA	49,995
		KM6E750FDA	54,282	KM6E750GDA	54,792
4 FPI	1	KM4E110FDA	14,877	KM4E110GDA	15,014
		KM4E143FDA	19,433	KM4E143GDA	19,613
	2	KM4E232FDA	24,408	KM4E232GDA	24,635
		KM4E288FDA	31,483	KM4E288GDA	31,777
	3	KM4E336FDA	35,666	KM4E336GDA	36,000
		KM4E419FDA	39,084	KM4E419GDA	39,452
	4	KM4E447FDA	47,554	KM4E447GDA	47,999
		KM4E557FDA	52,113	KM4E557GDA	52,603

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.

MEDIUM PROFILE

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)									
	TXV	EEV ¹	EcoNet® 2.0 Control Package	KE2 Control Package ²	LLSV	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	4,545	12,622	1,140	584	876	603	822	3,700
2	1,489	2,546	4,545	12,622	1,140	584	876	603	1,354	5,800
3	1,489	2,546	4,545	12,622	1,418	584	876	603	1,812	8,700
4	1,489	2,546	4,545	12,622	1,418	584	876	603	2,269	11,580

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 50 • 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	20,150	KM6G153FDA	21,778
		KM6G184DDA	21,032	KM6G184FDA	22,730
	2	KM6G311DDA	29,655	KM6G311FDA	32,051
		KM6G374DDA	31,575	KM6G374FDA	34,127
	3	KM6G469DDA	39,108	KM6G469FDA	42,268
		KM6G564DDA	42,383	KM6G564FDA	45,811
	4	KM6G624DDA	52,144	KM6G624FDA	56,357
		KM6G750DDA	56,511	KM6G750FDA	61,082
4 FPI	1	KM4G110DDA	19,344	KM4G110FDA	20,909
		KM4G143DDA	20,190	KM4G143FDA	21,820
	2	KM4G232DDA	28,469	KM4G232FDA	30,770
		KM4G288DDA	30,315	KM4G288FDA	32,762
	3	KM4G336DDA	37,544	KM4G336FDA	40,575
		KM4G419DDA	40,690	KM4G419FDA	43,978
	4	KM4G447DDA	50,058	KM4G447FDA	54,100
		KM4G557DDA	54,253	KM4G557FDA	58,637

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 REVERSE CYCLE CONFIGURABLE DEFROST OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	2,336	2,546	584	876	603	822	3,700
2	3,033	2,546	584	876	603	1,354	5,800
3	3,311	2,546	584	876	603	1,812	8,700
4	3,311	2,546	584	876	603	2,269	11,580

Shipped-Loose Accessories are found on page 50 • 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. All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

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	20,150	KM6H153FDA	21,778
		KM6H184DDA	21,032	KM6H184FDA	22,730
	2	KM6H311DDA	29,655	KM6H311FDA	32,051
		KM6H374DDA	31,575	KM6H374FDA	34,127
	3	KM6H469DDA	39,108	KM6H469FDA	42,268
		KM6H564DDA	42,383	KM6H564FDA	45,811
	4	KM6H624DDA	52,144	KM6H624FDA	56,357
		KM6H750DDA	56,511	KM6H750FDA	61,082
4 FPI	1	KM4H110DDA	19,344	KM4H110FDA	20,909
		KM4H143DDA	20,190	KM4H143FDA	21,820
	2	KM4H232DDA	28,469	KM4H232FDA	30,770
		KM4H288DDA	30,315	KM4H288FDA	32,762
	3	KM4H336DDA	37,544	KM4H336FDA	40,575
		KM4H419DDA	40,690	KM4H419FDA	43,978
	4	KM4H447DDA	50,058	KM4H447FDA	54,100
		KM4H557DDA	54,253	KM4H557FDA	58,637

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 3-PIPE CONFIGURABLE DEFROST OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV ¹	EEV ²	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	792	2,546	1,140	404	584	876	603	822	3,700
2	1,489	2,546	1,140	404	584	876	603	1,354	5,800
3	1,489	2,546	1,418	404	584	876	603	1,812	8,700
4	1,489	2,546	1,418	404	584	876	603	2,269	11,580

Shipped-Loose Accessories are found on page 50 • 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. All Hot Gas 3-Pipe Unit Coolers require a TXV or an EEV
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

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	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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 Cooler & Freezer Applications
in boxes <3,000 sq. ft.

BTUH

Air Defrost 31,200 to 253,100

Electric Defrost 33,100 to 227,400

Hot Gas Defrost 33,100 to 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 1,000 = BTUH	D = 230/1/60 E = 208-230/3/60 F = 460/1/60 G = 460/3/60	D = Dual Speed EC	

FEATURES & OPTIONS

● Standard ○ Optional

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	●

Continued on next page

HEAVY DUTY

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

BTUH

Air Defrost 31,200 to 253,100

Electric Defrost 33,100 to 227,400

Hot Gas Defrost 33,100 to 227,400



FEATURES & OPTIONS

● Standard ○ Optional

Embossed aluminum housing	●
Available as single through four fan models	●
EcoNet® Enabled Controller (factory-installed)	○
EcoNet® Command Center (loose)	○
Reverse Connections	○
Thermostat - Mechanical or Electric (mounted or loose)	○
Thermostatic Expansion Valve (mounted or loose)	○
Electronic Expansion Valve (mounted or loose)	○
Liquid Line Solenoid Valve (mounted or loose)	○
Insulated Drain Pan	○
Painted Cabinet (White or Black)	○
Stainless Steel Cabinet	○
Coated Coil (Bronz-Glow, or Electrofin®)	○
Suction/Liquid Heat Exchanger (loose)	○

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	27,876	KH6A031FDA	28,433
	KH6A043DDA	30,620	KH6A043FDA	31,233
	KH6A052DDA	32,094	KH6A052FDA	32,733
2	KH6A063DDA	35,763	KH6A063FDA	36,480
	KH6A087DDA	46,789	KH6A087FDA	47,725
	KH6A105DDA	52,510	KH6A105FDA	53,561
3	KH6A132DDA	56,052	KH6A132FDA	57,173
	KH6A156DDA	75,100	KH6A156FDA	76,604
4	KH6A175DDA	87,198	KH6A175FDA	88,943
	KH6A209DDA	97,006	KH6A209FDA	98,950

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

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

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
3. 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 62 • 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

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	31,667	KH6D030GDA	32,303
		KH6D042EDA	37,810	KH6D042GDA	38,565
		KH6D051EDA	40,882	KH6D051GDA	41,699
	2	KH6D062EDA	49,205	KH6D062GDA	50,190
		KH6D086EDA	63,168	KH6D086GDA	64,430
		KH6D104EDA	75,307	KH6D104GDA	76,813
	3	KH6D130EDA	83,498	KH6D130GDA	85,171
		KH6D155EDA	109,421	KH6D155GDA	111,612
	4	KH6D174EDA	117,530	KH6D174GDA	119,883
		KH6D208EDA	125,640	KH6D208GDA	128,155

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

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
3. KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (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. • Shipped-Loose Accessories are found on page 62 • 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.

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	31,667	KH6E033GDA	32,303	
		KH6E044EDA	37,810	KH6E044GDA	38,565	
		KH6E053EDA	40,882	KH6E053GDA	41,699	
	2	KH6E066EDA	49,205	KH6E066GDA	50,190	
		KH6E089EDA	63,168	KH6E089GDA	64,430	
		KH6E109EDA	75,307	KH6E109GDA	76,813	
	3	KH6E134EDA	83,498	KH6E134GDA	85,171	
		KH6E163EDA	109,421	KH6E163GDA	111,612	
	4	KH6E199EDA	125,640	KH6E199GDA	128,155	
	4 FPI	1	KH4E035EDA	36,297	KH4E035GDA	37,022
			KH4E044EDA	39,243	KH4E044GDA	40,030
		2	KH4E071EDA	60,642	KH4E071GDA	61,853
KH4E087EDA			72,295	KH4E087GDA	73,740	
3		KH4E107EDA	80,161	KH4E107GDA	81,759	
		KH4E131EDA	105,044	KH4E131GDA	107,143	
4		KH4E167EDA	120,615	KH4E167GDA	123,024	

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

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
3. KE2 Evaporator Control Package includes KE2 OEM control board, Liquid Line Solenoid Valve (LLSV) and Electronic Expansion Valve (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. • Shipped-Loose Accessories are found on page 62 • 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.

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	31,349	KH6G033FDA	31,979	
		KH6G044DDA	37,431	KH6G044FDA	38,181	
		KH6G053DDA	40,472	KH6G053FDA	41,281	
	2	KH6G066DDA	48,712	KH6G066FDA	49,687	
		KH6G089DDA	62,534	KH6G089FDA	63,785	
		KH6G109DDA	74,553	KH6G109FDA	76,044	
	3	KH6G134DDA	82,666	KH6G134FDA	84,319	
		KH6G163DDA	108,326	KH6G163FDA	110,492	
	4	KH6G199DDA	124,384	KH6G199FDA	126,868	
	4 FPI	1	KH4G035DDA	35,934	KH4G035FDA	36,654
			KH4G044DDA	38,852	KH4G044FDA	39,628
		2	KH4G071DDA	60,035	KH4G071FDA	61,235
KH4G087DDA			71,569	KH4G087FDA	73,002	
3		KH4G107DDA	79,356	KH4G107FDA	80,943	
		KH4G131DDA	103,991	KH4G131FDA	106,072	
4		KH4G167DDA	119,406	KH4G167FDA	121,796	

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.

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

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	31,822	KH6L033FDA	32,458	
		KH6L044DDA	37,993	KH6L044FDA	38,755	
		KH6L053DDA	41,083	KH6L053FDA	41,903	
	2	KH6L066DDA	49,444	KH6L066FDA	50,433	
		KH6L089DDA	63,475	KH6L089FDA	64,743	
		KH6L109DDA	75,670	KH6L109FDA	77,184	
	3	KH6L134DDA	83,905	KH6L134FDA	85,584	
		KH6L163DDA	109,950	KH6L163FDA	112,149	
	4	KH6L199DDA	126,248	KH6L199FDA	128,772	
	4 FPI	1	KH4L035DDA	36,473	KH4L035FDA	37,204
			KH4L044DDA	39,436	KH4L044FDA	40,226
		2	KH4L071DDA	60,937	KH4L071FDA	62,151
KH4L087DDA			72,643	KH4L087FDA	74,097	
3		KH4L107DDA	80,550	KH4L107FDA	82,157	
		KH4L131DDA	105,552	KH4L131FDA	107,663	
4		KH4L167DDA	121,200	KH4L167FDA	123,624	

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.

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

HEAVY DUTY

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	3,033	2,546	584	876	603	1,212	5,300
2	4,093	2,546	584	876	603	1,612	8,700
3	4,305	3,516	584	876	603	2,074	12,900
4	4,305	3,516	584	876	603	2,383	16,600

1. All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 62 • 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

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	31,349	KH6H033FDA	31,979	
		KH6H044DDA	37,431	KH6H044FDA	38,181	
		KH6H053DDA	40,472	KH6H053FDA	41,281	
	2	KH6H066DDA	48,712	KH6H066FDA	49,687	
		KH6H089DDA	62,534	KH6H089FDA	63,785	
		KH6H109DDA	74,553	KH6H109FDA	76,044	
	3	KH6H134DDA	82,666	KH6H134FDA	84,319	
		KH6H163DDA	108,326	KH6H163FDA	110,492	
	4	KH6H199DDA	124,384	KH6H199FDA	126,868	
	4 FPI	1	KH4H035DDA	35,934	KH4H035FDA	36,654
			KH4H044DDA	38,852	KH4H044FDA	39,628
		2	KH4H071DDA	60,035	KH4H071FDA	61,235
KH4H087DDA			71,569	KH4H087FDA	73,002	
3		KH4H107DDA	79,356	KH4H107FDA	80,943	
		KH4H131DDA	103,991	KH4H131FDA	106,072	
4		KH4H167DDA	119,406	KH4H167FDA	121,796	

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.

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

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	31,822	KH6K033FDA	32,458	
		KH6K044DDA	37,993	KH6K044FDA	38,755	
		KH6K053DDA	41,083	KH6K053FDA	41,903	
	2	KH6K066DDA	49,444	KH6K066FDA	50,433	
		KH6K089DDA	63,475	KH6K089FDA	64,743	
		KH6K109DDA	75,670	KH6K109FDA	77,184	
	3	KH6K134DDA	83,905	KH6K134FDA	85,584	
		KH6K163DDA	109,950	KH6K163FDA	112,149	
	4	KH6K199DDA	126,248	KH6K199FDA	128,772	
	4 FPI	1	KH4K035DDA	36,473	KH4K035FDA	37,204
			KH4K044DDA	39,436	KH4K044FDA	40,226
		2	KH4K071DDA	60,937	KH4K071FDA	62,151
KH4K087DDA			72,643	KH4K087FDA	74,097	
3		KH4K107DDA	80,550	KH4K107FDA	82,157	
		KH4K131DDA	105,552	KH4K131FDA	107,663	
4		KH4K167DDA	121,200	KH4K167FDA	123,624	

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.

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

HEAVY DUTY

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. 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 ²	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	1,140	404	584	876	603	1,212	5,300
2	2,271	2,546	1,418	404	584	876	603	1,612	8,700
3	2,271	3,516	1,630	404	584	876	603	2,074	12,900
4	2,271	3,516	1,630	404	584	876	603	2,383	16,600

1. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
2. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

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.

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

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	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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 Cooler & Freezer Applications
in boxes >3,000 sq. ft.

BTUH

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

FEATURES & OPTIONS

● Standard ○ Optional

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	●

Continued on next page

WAREHOUSE

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

BTUH

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



FEATURES & OPTIONS

● Standard ○ Optional

Embossed aluminum housing	●
Available as single through four fan models	●
EcoNet® Enabled Controller (factory-installed)	○
(EcoNet® not available on Hot Gas Evaporators)	Not Available
EcoNet® Command Center (loose)	○
Reverse Connections	○
Thermostat - Mechanical or Electric (mounted or loose)	○
Thermostatic Expansion Valve (mounted or loose)	○
Electronic Expansion Valve (mounted or loose)	○
Liquid Line Solenoid Valve (mounted or loose)	○
Insulated Drain Pan	○
Painted Cabinet (White or Black)	○
Stainless Steel Cabinet	○
Coated Coil (Bronz-Glow, or Electrofin®)	○
Heat Exchanger (loose)	○

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	20,649	KW6A034GTA	21,064
	KW6A047ETA	22,681	KW6A047GTA	23,134
	KW6A058ETA	23,769	KW6A058GTA	24,244
2	KW6A069ETA	26,490	KW6A069GTA	27,020
	KW6A094ETA	37,432	KW6A094GTA	38,181
	KW6A117ETA	42,008	KW6A117GTA	42,849
3	KW6A143ETA	44,842	KW6A143GTA	45,738
	KW6A176ETA	60,082	KW6A176GTA	61,285
4	KW6A190ETA	69,758	KW6A190GTA	71,155
	KW6A234ETA	77,605	KW6A234GTA	79,158

AIR DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

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
3. 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 77 • 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.

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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)		
6FPI	1	KW6E036ETA	23,460	KW6E036GTA	23,926	
		KW6E047ETA	28,009	KW6E047GTA	28,567	
		KW6E059ETA	30,282	KW6E059GTA	30,888	
	2	KW6E072ETA	41,003	KW6E072GTA	41,823	
		KW6E096ETA	52,641	KW6E096GTA	53,693	
		KW6E120ETA	62,757	KW6E120GTA	64,011	
	3	KW6E143ETA	69,583	KW6E143GTA	70,977	
		KW6E179ETA	95,149	KW6E179GTA	97,050	
	4	KW6E216ETA	109,251	KW6E216GTA	111,438	
	4FPI	1	KW4E038ETA	26,886	KW4E038GTA	27,424
			KW4E048ETA	29,071	KW4E048GTA	29,654
		2	KW4E077ETA	50,535	KW4E077GTA	51,546
KW4E097ETA			60,246	KW4E097GTA	61,449	
3		KW4E115ETA	66,801	KW4E115GTA	68,137	
		KW4E145ETA	91,343	KW4E145GTA	93,170	
4		KW4E182ETA	104,881	KW4E182GTA	106,979	

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

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
3. 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 77 • 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.

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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	23,460	KW6D033GTA	23,926	
		KW6D046ETA	28,009	KW6D046GTA	28,567	
		KW6D057ETA	30,282	KW6D057GTA	30,888	
	2	KW6D068ETA	41,003	KW6D068GTA	41,823	
		KW6D093ETA	52,641	KW6D093GTA	53,693	
		KW6D116ETA	62,757	KW6D116GTA	64,011	
	3	KW6D142ETA	69,583	KW6D142GTA	70,977	
		KW6D175ETA	95,149	KW6D175GTA	97,050	
	4	KW6D189ETA	102,200	KW6D189GTA	104,244	
		KW6D233ETA	109,251	KW6D233GTA	111,438	
	4 FPI	1	KW4D029ETA	22,520	KW4D029GTA	22,967
			KW4D041ETA	26,886	KW4D041GTA	27,422
KW4D050ETA			29,067	KW4D050GTA	29,651	
2		KW4D060ETA	39,360	KW4D060GTA	40,146	
		KW4D082ETA	50,531	KW4D082GTA	51,540	
		KW4D103ETA	60,241	KW4D103GTA	61,446	
3		KW4D126ETA	66,793	KW4D126GTA	68,131	
		KW4D155ETA	91,333	KW4D155GTA	93,159	
4		KW4D167ETA	98,102	KW4D167GTA	100,065	
		KW4D206ETA	104,869	KW4D206GTA	106,970	

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

See notes on previous page.

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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	26,038	KW6E036GHA	26,561	
		KW6E047EHA	31,087	KW6E047GHA	31,710	
		KW6E059EHA	33,615	KW6E059GHA	34,286	
	2	KW6E072EHA	45,515	KW6E072GHA	46,422	
		KW6E096EHA	58,431	KW6E096GHA	59,600	
		KW6E120EHA	69,659	KW6E120GHA	71,052	
	3	KW6E143EHA	77,238	KW6E143GHA	78,784	
		KW6E179EHA	105,612	KW6E179GHA	107,726	
	4	KW6E216EHA	121,269	KW6E216GHA	123,693	
	4 FPI	1	KW4E038EHA	29,842	KW4E038GHA	30,439
			KW4E048EHA	32,269	KW4E048GHA	32,914
		2	KW4E077EHA	56,096	KW4E077GHA	57,215
KW4E097EHA			66,873	KW4E097GHA	68,209	
3		KW4E115EHA	74,148	KW4E115GHA	75,630	
		KW4E145EHA	101,388	KW4E145GHA	103,417	
4		KW4E182EHA	116,417	KW4E182GHA	118,747	

ELECTRIC DEFROST CONFIGURABLE OPTIONS

EcoNet® 1.0 Control Package **no longer available**

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV	EEV ¹	EcoNet® 2.0 Control Package ²	KE2 Evaporator Defrost Control Package ³	LLSV	Mechanical Thermostat	Electronic Thermostat	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	8,793	12,622	1,140	584	876	1,212	5,300
2	2,271	2,546	8,793	12,622	1,418	584	876	1,612	8,700
3	2,271	3,516	8,793	13,621	1,418	584	876	2,074	12,900
4	2,271	3,516	8,793	13,840	1,630	584	876	2,383	16,600

- Price Adder is for Electronic Expansion Valve (EEV) only. Controller not included and must be field supplied.
- 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 77 • 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.

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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	23,224	KW6G036GTA	23,687	
		KW6G047ETA	27,728	KW6G047GTA	28,282	
		KW6G059ETA	29,977	KW6G059GTA	30,579	
	2	KW6G072ETA	40,593	KW6G072GTA	41,407	
		KW6G096ETA	52,113	KW6G096GTA	53,153	
		KW6G120ETA	62,127	KW6G120GTA	63,371	
	3	KW6G143ETA	68,888	KW6G143GTA	70,265	
		KW6G179ETA	94,196	KW6G179GTA	96,083	
	4	KW6G216ETA	108,157	KW6G216GTA	110,320	
	4 FPI	1	KW4G038ETA	26,620	KW4G038GTA	27,153
			KW4G048ETA	28,781	KW4G048GTA	29,355
		2	KW4G077ETA	50,029	KW4G077GTA	51,030
KW4G097ETA			59,643	KW4G097GTA	60,835	
3		KW4G115ETA	66,132	KW4G115GTA	67,455	
		KW4G145ETA	90,430	KW4G145GTA	92,240	
4		KW4G182ETA	103,830	KW4G182GTA	105,907	

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	3,033	2,546	584	876	603	1,212	5,300
2	4,093	2,546	584	876	603	1,612	8,700
3	4,305	3,516	584	876	603	2,074	12,900
4	4,305	3,516	584	876	603	2,383	16,600

- All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
- Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
- Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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.

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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	23,569	KW6L036GTA	24,042	
		KW6L047ETA	28,139	KW6L047GTA	28,707	
		KW6L059ETA	30,431	KW6L059GTA	31,038	
	2	KW6L072ETA	41,204	KW6L072GTA	42,031	
		KW6L096ETA	52,895	KW6L096GTA	53,954	
		KW6L120ETA	63,060	KW6L120GTA	64,325	
	3	KW6L143ETA	69,925	KW6L143GTA	71,323	
		KW6L179ETA	95,613	KW6L179GTA	97,521	
	4	KW6L216ETA	109,780	KW6L216GTA	111,976	
	4 FPI	1	KW4L038ETA	27,017	KW4L038GTA	27,558
			KW4L048ETA	29,208	KW4L048GTA	29,795
		2	KW4L077ETA	50,780	KW4L077GTA	51,796
KW4L097ETA			60,539	KW4L097GTA	61,750	
3		KW4L115ETA	67,126	KW4L115GTA	68,468	
		KW4L145ETA	91,785	KW4L145GTA	93,621	
4		KW4L182ETA	105,390	KW4L182GTA	107,496	

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	3,033	2,546	584	876	603	1,212	5,300
2	4,093	2,546	584	876	603	1,612	8,700
3	4,305	3,516	584	876	603	2,074	12,900
4	4,305	3,516	584	876	603	2,383	16,600

1. All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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.

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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	25,777	KW6G036GHA	26,292	
		KW6G047EHA	30,774	KW6G047GHA	31,392	
		KW6G059EHA	33,277	KW6G059GHA	33,941	
	2	KW6G072EHA	45,058	KW6G072GHA	45,961	
		KW6G096EHA	57,847	KW6G096GHA	59,004	
		KW6G120EHA	68,964	KW6G120GHA	70,343	
	3	KW6G143EHA	76,466	KW6G143GHA	77,997	
		KW6G179EHA	104,559	KW6G179GHA	106,652	
	4	KW6G216EHA	120,056	KW6G216GHA	122,456	
	4 FPI	1	KW4G038EHA	29,547	KW4G038GHA	30,137
			KW4G048EHA	31,945	KW4G048GHA	32,585
		2	KW4G077EHA	55,533	KW4G077GHA	56,644
KW4G097EHA			66,204	KW4G097GHA	67,529	
3		KW4G115EHA	73,408	KW4G115GHA	74,876	
		KW4G145EHA	100,377	KW4G145GHA	102,385	
4		KW4G182EHA	115,253	KW4G182GHA	117,557	

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	3,033	2,546	584	876	603	1,212	5,300
2	4,093	2,546	584	876	603	1,612	8,700
3	4,305	3,516	584	876	603	2,074	12,900
4	4,305	3,516	584	876	603	2,383	16,600

- All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
- Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
- Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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.

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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	26,164	KW6L036GHA	26,688	
		KW6L047EHA	31,236	KW6L047GHA	31,865	
		KW6L059EHA	33,776	KW6L059GHA	34,451	
	2	KW6L072EHA	45,736	KW6L072GHA	46,651	
		KW6L096EHA	58,714	KW6L096GHA	59,885	
		KW6L120EHA	69,997	KW6L120GHA	71,398	
	3	KW6L143EHA	77,613	KW6L143GHA	79,169	
		KW6L179EHA	106,128	KW6L179GHA	108,251	
	4	KW6L216EHA	121,857	KW6L216GHA	124,295	
	4 FPI	1	KW4L038EHA	29,992	KW4L038GHA	30,592
			KW4L048EHA	32,423	KW4L048GHA	33,071
		2	KW4L077EHA	56,365	KW4L077GHA	57,496
KW4L097EHA			67,197	KW4L097GHA	68,542	
3		KW4L115EHA	74,508	KW4L115GHA	75,998	
		KW4L145EHA	101,881	KW4L145GHA	103,922	
4		KW4L182EHA	116,980	KW4L182GHA	119,322	

HOT GAS DEFROST // REVERSE CYCLE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)						
	TXV, LLSV & Check Valve ¹	EEV ²	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	3,033	2,546	584	876	603	1,212	5,300
2	4,093	2,546	584	876	603	1,612	8,700
3	4,305	3,516	584	876	603	2,074	12,900
4	4,305	3,516	584	876	603	2,383	16,600

- All Hot Gas Reverse Cycle Unit Coolers require a TXV, LLSV and Check Valve or an EEV.
- Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
- Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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.

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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	23,224	KW6H036GTA	23,687	
		KW6H047ETA	27,728	KW6H047GTA	28,282	
		KW6H059ETA	29,977	KW6H059GTA	30,579	
	2	KW6H072ETA	40,593	KW6H072GTA	41,407	
		KW6H096ETA	52,113	KW6H096GTA	53,153	
		KW6H120ETA	62,127	KW6H120GTA	63,371	
	3	KW6H143ETA	68,888	KW6H143GTA	70,265	
		KW6H179ETA	94,196	KW6H179GTA	96,083	
	4	KW6H216ETA	108,157	KW6H216GTA	110,320	
	4 FPI	1	KW4H038ETA	26,620	KW4H038GTA	27,153
			KW4H048ETA	28,781	KW4H048GTA	29,355
		2	KW4H077ETA	50,029	KW4H077GTA	51,030
KW4H097ETA			59,643	KW4H097GTA	60,835	
3		KW4H115ETA	66,132	KW4H115GTA	67,455	
		KW4H145ETA	90,430	KW4H145GTA	92,240	
4		KW4H182ETA	103,830	KW4H182GTA	105,907	

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV ¹	EEV ²	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	1,140	404	584	876	603	1,212	5,300
2	2,271	2,546	1,418	404	584	876	603	1,612	8,700
3	2,271	3,516	1,630	404	584	876	603	2,074	12,900
4	2,271	3,516	1,630	404	584	876	603	2,383	16,600

- All Hot Gas 3-Pipe Unit Coolers require a TXV or an EEV
- Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
- Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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.

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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	23,569	KW6K036GTA	24,042	
		KW6K047ETA	28,139	KW6K047GTA	28,707	
		KW6K059ETA	30,431	KW6K059GTA	31,038	
	2	KW6K072ETA	41,204	KW6K072GTA	42,031	
		KW6K096ETA	52,895	KW6K096GTA	53,954	
		KW6K120ETA	63,060	KW6K120GTA	64,325	
	3	KW6K143ETA	69,925	KW6K143GTA	71,323	
		KW6K179ETA	95,613	KW6K179GTA	97,521	
	4	KW6K216ETA	109,780	KW6K216GTA	111,976	
	4 FPI	1	KW4K038ETA	27,017	KW4K038GTA	27,558
			KW4K048ETA	29,208	KW4K048GTA	29,795
		2	KW4K077ETA	50,780	KW4K077GTA	51,796
KW4K097ETA			60,539	KW4K097GTA	61,750	
3		KW4K115ETA	67,126	KW4K115GTA	68,468	
		KW4K145ETA	91,785	KW4K145GTA	93,621	
4		KW4K182ETA	105,390	KW4K182GTA	107,496	

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV ¹	EEV ²	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	1,140	404	584	876	603	1,212	5,300
2	2,271	2,546	1,418	404	584	876	603	1,612	8,700
3	2,271	3,516	1,630	404	584	876	603	2,074	12,900
4	2,271	3,516	1,630	404	584	876	603	2,383	16,600

1. All Hot Gas 3-Pipe Unit Coolers require a TXV or an EEV
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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

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	25,777	KW6H036GHA	26,292	
		KW6H047EHA	30,774	KW6H047GHA	31,392	
		KW6H059EHA	33,277	KW6H059GHA	33,941	
	2	KW6H072EHA	45,058	KW6H072GHA	45,961	
		KW6H096EHA	57,847	KW6H096GHA	59,004	
		KW6H120EHA	68,964	KW6H120GHA	70,343	
	3	KW6H143EHA	76,466	KW6H143GHA	77,997	
		KW6H179EHA	104,559	KW6H179GHA	106,652	
	4	KW6H216EHA	120,056	KW6H216GHA	122,456	
	4 FPI	1	KW4H038EHA	29,547	KW4H038GHA	30,137
			KW4H048EHA	31,945	KW4H048GHA	32,585
		2	KW4H077EHA	55,533	KW4H077GHA	56,644
KW4H097EHA			66,204	KW4H097GHA	67,529	
3		KW4H115EHA	73,408	KW4H115GHA	74,876	
		KW4H145EHA	100,377	KW4H145GHA	102,385	
4		KW4H182EHA	115,253	KW4H182GHA	117,557	

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV ¹	EEV ²	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	1,140	404	584	876	603	1,212	5,300
2	2,271	2,546	1,418	404	584	876	603	1,612	8,700
3	2,271	3,516	1,630	404	584	876	603	2,074	12,900
4	2,271	3,516	1,630	404	584	876	603	2,383	16,600

1. All Hot Gas 3-Pipe Unit Coolers require a TXV or an EEV
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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

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	26,164	KW6K036GHA	26,688	
		KW6K047EHA	31,236	KW6K047GHA	31,865	
		KW6K059EHA	33,776	KW6K059GHA	34,451	
	2	KW6K072EHA	45,736	KW6K072GHA	46,651	
		KW6K096EHA	58,714	KW6K096GHA	59,885	
		KW6K120EHA	69,997	KW6K120GHA	71,398	
	3	KW6K143EHA	77,613	KW6K143GHA	79,169	
		KW6K179EHA	106,128	KW6K179GHA	108,251	
	4	KW6K216EHA	121,857	KW6K216GHA	124,295	
	4 FPI	1	KW4K038EHA	29,992	KW4K038GHA	30,592
			KW4K048EHA	32,423	KW4K048GHA	33,071
		2	KW4K077EHA	56,365	KW4K077GHA	57,496
KW4K097EHA			67,197	KW4K097GHA	68,542	
3		KW4K115EHA	74,508	KW4K115GHA	75,998	
		KW4K145EHA	101,881	KW4K145GHA	103,922	
4		KW4K182EHA	116,980	KW4K182GHA	119,322	

HOT GAS DEFROST // 3-PIPE CONFIGURABLE OPTIONS

No. of Fans	Factory Mounted Options // List Price Adder (\$US)								
	TXV ¹	EEV ²	LLSV	Check Valve	Mechanical Thermostat	Electronic Thermostat	Adjustable Defrost Control/ Fan Delay Switch ³	Insulated Drain Pan	Finkote2 Coating
1	1,489	2,546	1,140	404	584	876	603	1,212	5,300
2	2,271	2,546	1,418	404	584	876	603	1,612	8,700
3	2,271	3,516	1,630	404	584	876	603	2,074	12,900
4	2,271	3,516	1,630	404	584	876	603	2,383	16,600

1. All Hot Gas 3-Pipe Unit Coolers require a TXV or an EEV
2. Price Adder for Electronic Expansion Valve (EEV) is for valve only. Does not include a controller, which must be field supplied.
3. Medium Temp Hot Gas Defrost Requires two adjustable defrost control / fan delay switches.

Shipped-Loose Accessories are found on page 77 • 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

Shipped Loose Accessories**CONTROLS & THERMOSTATS**

Option Name	Option Description	List Price (\$US)
EcoNet® Command Center	EcoNet® Command Center for EcoNet® Enabled Unit Coolers	1,684
Mechanical Thermostat	Mechanical Thermostat: -30°F to + 100°F	549
Electronic Thermostat	Electronic Thermostat: -30°F to + 100°F	709

VALVES

Option Name	Range	List Price (\$US)
Electronic Expansion Valve (EEV)	1 to 15 Tons	1,964
	16 to 25 Tons	2,820
Thermostatic Expansion Valve (TXV)	1/4 to 3 Tons	644
	4 to 9 Tons	917
	10 to 30 Tons	1,613
Liquid Line Solenoid Valve (LLSV)	1/2 thru 3 HP	543
	4 thru 8 HP	607
	9 thru 10 HP	881
	12 thru 15 HP	1,082
	22 HP	1,381

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

NEXT-GEN MINICON 1/2 TO 6 HP



MODEL NOMENCLATURE

K	F	H	150	E	4S	D	A
Brand	Style	Compressor	Horsepower	Temperature	Refrigerant	Voltage	Vintage ¹
K = Kramer	F = Flooded B = Non-Flooded	H = Hermetic O = Scroll	150 = 1.5 HP	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 or High Efficiency 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.

NEXT-GEN MINICON 1/2 TO 6 HP



FEATURES & OPTIONS	● Standard ○ Optional
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 or High Efficiency 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	●
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	13,316	224
		0.75	RST55C1E	KFH080E4SDB	Air Defrost Timer	13,428	224
		1.00	RST70C1E	KFH100E4SDB	Air Defrost Timer	14,939	246
	FM2	1.25	RST97C1E	KFH125E4SDB	Air Defrost Timer	15,647	246

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	12,475	224
		0.75	RST55C1E	KBH080E4SDB	Air Defrost Timer	12,639	224
		1.00	RST70C1E	KBH100E4SDB	Air Defrost Timer	14,010	246
	FM2	1.25	RST97C1E	KBH125E4SDB	Air Defrost Timer	14,693	246

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	12,387	224
		0.75	RST55C1E	KFH080E4SDBNT	12,499	224
		1.00	RST70C1E	KFH100E4SDBNT	14,010	246
	FM2	1.25	RST97C1E	KFH125E4SDBNT	14,718	246

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	14,771	246
	FM2	1.25	RST97C1E	KFH125E4SEB	Air Defrost Timer	15,471	246

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	13,836	246
	FM2	1.25	RST97C1E	KBH125E4SEB	Air Defrost Timer	14,554	246

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	13,842	246
	FM2	1.25	RST97C1E	KFH125E4SEBNT	14,542	246

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	13,864	-	416	
		0.75	ZB07KAE	KFO080M4SDA	Air Defrost Timer	14,640	-	416	
		1.0	ZB08KAE	KFO100M4SDA	Air Defrost Timer	14,913	-	416	
Extended Medium Temperature	FM2	1.0	ZS09KAE	KFO130E4SDA	Air Defrost Timer	15,790	-	416	
		1.25	ZS11KAE	KFO150E4SDA	Air Defrost Timer	15,896	938	416	
	FM3	1.5	ZS13KAE	KFO180E4SDA	Air Defrost Timer	17,584	938	416	
		2.0	ZS15KAE	KFO200E4SDA	Air Defrost Timer	17,602	938	416	
	FM4	2.5	ZS19KAE	KFO250E4SDA	Air Defrost Timer	17,937	938	416	
		2.8	ZS20KAE	KFO280E4SDA	Air Defrost Timer	18,938	938	416	
		3.0	ZS21KAE	KFO300E4SDA	Air Defrost Timer	19,196	938	546	
		3.5	ZS26KAE	KFO350E4SDA	Air Defrost Timer	21,086	938	546	
		4.0	ZS29KAE	KFO400E4SDA	Air Defrost Timer	21,376	938	565	
		4.5	ZS33KAE	KFO450E4SDA	Air Defrost Timer	23,067	938	565	
	Low Temperature	FM1	5.0	ZS38K4E	KFO500E4SDA	Air Defrost Timer	24,133	938	585
			1.0	ZF03KAE	KFO100L4SDA	ED-5	15,979	-	416
1.3			ZF04KAE	KFO130L4SDA	ED-5	16,674	-	416	
FM2		1.5	ZF05KAE	KFO160L4SDA	ED-5	17,422	-	416	
		2.3	ZF07KAE	KFO230L4SDA	ED-7	18,485	938	416	
FM3		2.5	ZF08K4E	KFO250L4SDA	ED-7	19,962	938	416	
		3.0	ZF09K4E	KFO300L4SDA	ED-7	20,676	938	546	
		3.5	ZF11K4E	KFO350L4SDA	ED-10	22,844	938	546	
FM4	4.0	ZF13K4E	KFO400L4SDB	ED-10	25,741	-	565		
	5.0	ZF15K4E	KFO500L4SDB	ED-10	26,599	-	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	13,174	-	416	
		0.75	ZB07KAE	KBO080M4SDB	Air Defrost Timer	13,950	-	416	
		1.0	ZB08KAE	KBO100M4SDB	Air Defrost Timer	14,217	-	416	
Extended Medium Temperature	FM2	1.0	ZS09KAE	KBO130E4SDB	Air Defrost Timer	15,011	-	416	
		1.25	ZS11KAE	KBO150E4SDA	Air Defrost Timer	15,128	938	416	
	FM3	1.5	ZS13KAE	KBO180E4SDA	Air Defrost Timer	16,467	938	416	
		2.0	ZS15KAE	KBO200E4SDA	Air Defrost Timer	16,760	938	416	
	FM4	2.5	ZS19KAE	KBO250E4SDA	Air Defrost Timer	17,085	938	416	
		2.8	ZS20KAE	KBO280E4SDB	Air Defrost Timer	18,138	-	416	
		3.0	ZS21KAE	KBO300E4SDB	Air Defrost Timer	18,482	-	546	
		3.5	ZS26KAE	KBO350E4SDB	Air Defrost Timer	20,246	-	546	
		4.0	ZS29KAE	KBO400E4SDB	Air Defrost Timer	20,558	-	565	
		4.5	ZS33KAE	KBO450E4SDB	Air Defrost Timer	22,288	-	565	
	Low Temperature	FM1	5.0	ZS38K4E	KBO500E4SDB	Air Defrost Timer	23,415	-	585
			1.0	ZF03KAE	KBO100L4SDB	ED-5	15,114	-	416
1.3			ZF04KAE	KBO130L4SDB	ED-5	15,867	-	416	
FM2		1.5	ZF05KAE	KBO160L4SDB	ED-5	16,655	-	416	
		2.3	ZF07KAE	KBO230L4SDA	ED-7	17,762	938	416	
FM3		2.5	ZF08K4E	KBO250L4SDA	ED-7	19,270	938	416	
		3.0	ZF09K4E	KBO300L4SDA	ED-7	20,446	938	546	
		3.5	ZF11K4E	KBO350L4SDA	ED-10	22,084	938	546	
FM4	4.0	ZF13K4E	KBO400L4SDB	ED-10	25,047	-	565		
	5.0	ZF15K4E	KBO500L4SDB	ED-10	25,788	-	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	12,935	416	
		0.75	ZB07KAE	KFO080M4SDANT	13,711	416	
		1.0	ZB08KAE	KFO100M4SDANT	13,984	416	
Extended Medium Temperature	FM2	1.0	ZS09KAE	KFO130E4SDANT	14,861	416	
		1.25	ZS11KAE	KFO150E4SDANT	14,967	416	
	FM3	1.5	ZS13KAE	KFO180E4SDANT	16,655	416	
		2.0	ZS15KAE	KFO200E4SDANT	16,673	416	
	FM4	2.5	ZS19KAE	KFO250E4SDANT	17,008	416	
		2.8	ZS20KAE	KFO280E4SDANT	18,009	416	
		3.0	ZS21KAE	KFO300E4SDANT	18,267	546	
		3.5	ZS26KAE	KFO350E4SDANT	20,157	546	
		4.0	ZS29KAE	KFO400E4SDANT	20,447	565	
		4.5	ZS33KAE	KFO450E4SDANT	22,138	565	
	Low Temperature	FM1	5.0	ZS38K4E	KFO500E4SDANT	23,204	585
			1.0	ZF03KAE	KFO100L4SDANT	14,860	416
1.3			ZF04KAE	KFO130L4SDANT	15,555	416	
FM2		1.5	ZF05KAE	KFO160L4SDANT	16,303	416	
		2.3	ZF07KAE	KFO230L4SDANT	17,366	416	
FM3		2.5	ZF08K4E	KFO250L4SDANT	18,843	416	
		3.0	ZF09K4E	KFO300L4SDANT	19,557	546	
		3.5	ZF11K4E	KFO350L4SDANT	21,725	546	
FM4		4.0	ZF13K4E	KFO400L4SDBNT	24,622	565	
	5.0	ZF15K4E	KFO500L4SDBNT	25,480	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	14,029	-	416	
		0.75	ZB07KAE	KFO080M4SEA	Air Defrost Timer	15,026	-	416	
		1.0	ZB08KAE	KFO100M4SEA	Air Defrost Timer	15,204	-	416	
		1.0	ZS09KAE	KFO130E4SEA	Air Defrost Timer	15,744	-	416	
Extended Medium Temperature	FM2	1.25	ZS11KAE	KFO150E4SEA	Air Defrost Timer	16,003	938	416	
		1.5	ZS13KAE	KFO180E4SEA	Air Defrost Timer	17,294	938	416	
	FM3	2.0	ZS15KAE	KFO200E4SEA	Air Defrost Timer	17,723	938	416	
		2.5	ZS19KAE	KFO250E4SEA	Air Defrost Timer	18,168	938	416	
	FM4	2.8	ZS20KAE	KFO280E4SEA	Air Defrost Timer	19,226	938	416	
		3.0	ZS21KAE	KFO300E4SEA	Air Defrost Timer	19,530	938	546	
		3.5	ZS26KAE	KFO350E4SEA	Air Defrost Timer	21,417	938	546	
		4.0	ZS29KAE	KFO400E4SEA	Air Defrost Timer	22,013	938	565	
		4.5	ZS33KAE	KFO450E4SEA	Air Defrost Timer	22,609	938	565	
		5.0	ZS38K4E	KFO500E4SEA	Air Defrost Timer	24,402	938	585	
	Low Temperature	FM1	1.0	ZF03KAE	KFO100L4SEA	ED-5	16,192	-	416
			1.3	ZF04KAE	KFO130L4SEA	ED-5	16,899	-	416
1.5			ZF05KAE	KFO160L4SEA	ED-5	17,657	-	416	
FM2		2.3	ZF07KAE	KFO230L4SEA	ED-5	18,738	938	416	
FM3		2.5	ZF08K4E	KFO250L4SEA	ED-6	20,320	938	416	
		3.0	ZF09K4E	KFO300L4SEA	ED-6	21,060	938	546	
		3.5	ZF11K4E	KFO350L4SEA	ED-7	23,104	938	546	
FM4		4.0	ZF13K4E	KFO400L4SEB	ED-7	25,999	-	565	
		5.0	ZF15K4E	KFO500L4SEB	ED-11	26,743	-	585	
	6.0	ZF18K4E	KFO600L4SEB	ED-11	28,295	-	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	13,332	-	416	
		0.75	ZB07KAE	KBO080M4SEB	Air Defrost Timer	14,335	-	416	
		1.0	ZB08KAE	KBO100M4SEB	Air Defrost Timer	14,513	-	416	
		1.0	ZS09KAE	KBO130E4SEB	Air Defrost Timer	15,032	-	416	
Extended Medium Temperature	FM2	1.25	ZS11KAE	KBO150E4SEA	Air Defrost Timer	15,284	938	416	
		1.5	ZS13KAE	KBO180E4SEA	Air Defrost Timer	16,413	938	416	
	FM3	2.0	ZS15KAE	KBO200E4SEA	Air Defrost Timer	16,877	938	416	
		2.5	ZS19KAE	KBO250E4SEA	Air Defrost Timer	17,338	938	416	
	FM4	2.8	ZS20KAE	KBO280E4SEB	Air Defrost Timer	18,428	-	416	
		3.0	ZS21KAE	KBO300E4SEB	Air Defrost Timer	18,794	-	546	
		3.5	ZS26KAE	KBO350E4SEB	Air Defrost Timer	20,584	-	546	
		4.0	ZS29KAE	KBO400E4SEB	Air Defrost Timer	21,194	-	565	
		4.5	ZS33KAE	KBO450E4SEB	Air Defrost Timer	21,804	-	565	
		5.0	ZS38K4E	KBO500E4SEB	Air Defrost Timer	23,687	-	585	
	Low Temperature	FM1	1.0	ZF03KAE	KBO100L4SEB	ED-5	15,120	-	416
			1.3	ZF04KAE	KBO130L4SEB	ED-5	15,947	-	416
1.5			ZF05KAE	KBO160L4SEB	ED-5	16,794	-	416	
FM2		2.3	ZF07KAE	KBO230L4SEA	ED-5	18,004	938	416	
FM3		2.5	ZF08K4E	KBO250L4SEA	ED-6	19,631	938	416	
		3.0	ZF09K4E	KBO300L4SEA	ED-6	20,369	938	546	
		3.5	ZF11K4E	KBO350L4SEA	ED-7	22,411	938	546	
FM4		4.0	ZF13K4E	KBO400L4SEB	ED-7	25,308	-	565	
		5.0	ZF15K4E	KBO500L4SEB	ED-11	26,051	-	585	
	6.0	ZF18K4E	KBO600L4SEB	ED-11	27,605	-	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	13,100	416	
		0.75	ZB07KAE	KFO080M4SEANT	14,097	416	
		1.0	ZB08KAE	KFO100M4SEANT	14,275	416	
Extended Medium Temperature	FM2	1.0	ZS09KAE	KFO130E4SEANT	14,815	416	
		1.25	ZS11KAE	KFO150E4SEANT	15,074	416	
		1.5	ZS13KAE	KFO180E4SEANT	16,365	416	
	FM3	2.0	ZS15KAE	KFO200E4SEANT	16,794	416	
		2.5	ZS19KAE	KFO250E4SEANT	17,239	416	
	FM4	2.8	ZS20KAE	KFO280E4SEANT	18,297	416	
		3.0	ZS21KAE	KFO300E4SEANT	18,601	546	
		3.5	ZS26KAE	KFO350E4SEANT	20,488	546	
		4.0	ZS29KAE	KFO400E4SEANT	21,084	565	
		4.5	ZS33KAE	KFO450E4SEANT	21,680	565	
		5.0	ZS38K4E	KFO500E4SEANT	23,473	585	
	Low Temperature	FM1	6.0	ZS45K4E	KFO600E4SEANT	26,147	585
			1.0	ZF03KAE	KFO100L4SEANT	15,073	416
			1.3	ZF04KAE	KFO130L4SEANT	15,780	416
		FM2	1.5	ZF05KAE	KFO160L4SEANT	16,538	416
2.3			ZF07KAE	KFO230L4SEANT	17,619	416	
FM3		2.5	ZF08K4E	KFO250L4SEANT	19,201	416	
		3.0	ZF09K4E	KFO300L4SEANT	19,941	546	
		3.5	ZF11K4E	KFO350L4SEANT	21,985	546	
FM4		4.0	ZF13K4E	KFO400L4SEBNT	24,880	565	
	5.0	ZF15K4E	KFO500L4SEBNT	25,624	585		
	6.0	ZF18K4E	KFO600L4SEBNT	27,176	585		

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	17,328	416
	FM2	1.25	ZS11KAE	KFO150E4SGA	Air Defrost Timer	17,750	416
		1.5	ZS13KAE	KFO180E4SGA	Air Defrost Timer	18,603	416
	FM3	2.0	ZS15KAE	KFO200E4SGA	Air Defrost Timer	18,814	416
		2.5	ZS19KAE	KFO250E4SGA	Air Defrost Timer	19,080	416
	FM4	2.8	ZS20KAE	KFO280E4SGA	Air Defrost Timer	20,108	416
		3.0	ZS21KAE	KFO300E4SGA	Air Defrost Timer	20,348	546
		3.5	ZS26KAE	KFO350E4SGA	Air Defrost Timer	22,178	546
		4.0	ZS29KAE	KFO400E4SGA	Air Defrost Timer	23,051	565
		4.5	ZS33KAE	KFO450E4SGA	Air Defrost Timer	24,886	565
		5.0	ZS38K4E	KFO500E4SGA	Air Defrost Timer	25,156	585
	Low Temperature	FM2	2.3	ZF07KAE	KFO230L4SGA	ED-17	20,324
2.5			ZF08K4E	KFO250L4SGA	ED-17	21,909	416
FM3		3.0	ZF09K4E	KFO300L4SGA	ED-17	22,284	546
		3.5	ZF11K4E	KFO350L4SGA	ED-17	23,862	546
FM4		4.0	ZF13K4E	KFO400L4SGB	ED-17	26,365	565
		5.0	ZF15K4E	KFO500L4SGB	ED-17	27,184	585
		6.0	ZF18K4E	KFO600L4SGB	ED-17	28,750	585

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	17,031	416
		1.5	ZS13KAE	KBO180E4SGA	Air Defrost Timer	17,807	416
	FM3	2.0	ZS15KAE	KBO200E4SGA	Air Defrost Timer	18,016	416
		2.5	ZS19KAE	KBO250E4SGA	Air Defrost Timer	18,283	416
	FM4	2.8	ZS20KAE	KBO280E4SGB	Air Defrost Timer	19,348	416
		3.0	ZS21KAE	KBO300E4SGB	Air Defrost Timer	19,655	546
		3.5	ZS26KAE	KBO350E4SGB	Air Defrost Timer	21,374	546
		4.0	ZS29KAE	KBO400E4SGB	Air Defrost Timer	22,308	565
		4.5	ZS33KAE	KBO450E4SGB	Air Defrost Timer	23,904	565
		5.0	ZS38K4E	KBO500E4SGB	Air Defrost Timer	24,391	585
		6.0	ZS45K4E	KBO600E4SGB	Air Defrost Timer	27,033	585
	Low Temperature	FM2	2.3	ZF07KAE	KBO230L4SGA	ED-17	19,189
FM3		2.5	ZF08K4E	KBO250L4SGA	ED-17	20,814	416
		3.0	ZF09K4E	KBO300L4SGA	ED-17	21,494	546
		3.5	ZF11K4E	KBO350L4SGA	ED-17	23,171	546
FM4		4.0	ZF13K4E	KBO400L4SGB	ED-17	25,675	565
		5.0	ZF15K4E	KBO500L4SGB	ED-17	26,491	585
		6.0	ZF18K4E	KBO600L4SGB	ED-17	28,058	585

Factory Mounted Options are found on page 91 & Shipped-Loose Accessories are found on page 93.

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	652	
Adjustable Head Pressure Control Valve	FM1-FM3	582	
Liquid Line With Components: Sealed Filter	ALL	Standard	
Liquid Line with Premium Components: Replaceable Core Filter/Drier	FM4	961	
Suction Line Components: Sealed Filter	FM1	623	
	FM2 - FM4	743	
Suction Line Components: Replaceable Core Filter	FM4	2,186	
Suction Line Accumulator	FM1	962	
	FM2 - FM4	1,484	
Oil Separator	FM4	2,361	
Over-Sized Receiver	FM1	797	
	FM2	950	
	FM3	2,271	
	FM4	2,330	
Compressor Pump-down Switch	ALL	615	
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	ALL	1,302	
Phase Loss Monitor [^]	ALL	2,134	
Copper Fins Or Electro Fin Coated Coil	ALL	Contact Factory	
Thru The Door - Non - Fused - Disconnect Switch	FM1 - FM2	915	
	FM3 - FM4	1,216	
External Fused Disconnect (Mounted)	FM1 - FM2	1,029	
	FM3 - FM4	1,896	

[^] Only available on units that are 3 Phase.
Continued on next page

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
Variable Speed EC Motors & Controller	FM1	2,024	
	FM2	2,754	
	FM3	3,074	
	FM4	2,236	
Finkote2 Coil Coating	FM1	3,330	
	FM2	3,610	
	FM3	3,890	
	FM4	4,440	

FACTORY INSTALLED OPTIONS // COMMON DEFROST COMPONENTS

Option Description	Cabinet Size	List Price Adder (\$US)	
		Medium Temp	Low Temp
Standard (Electronic) Air Defrost Timer*	ALL	Standard	-
Remove Standard Air Defrost Timer	ALL	(929)	-
Standard Defrost Kit (ED5 - ED11)	ALL	-	Standard
Substitute Standard Air Defrost Time for Standard Defrost Kit (ED5-ED11)	ALL	190	-
Remove Standard Defrost Kit	ALL	-	(1,119)

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

* Standard Electronic Air Defrost Timer can be substituted with Mechanical Air Defrost Timer at no charge.

Defrost Kit Descriptions & Additional Defrost Kit Options available on page 94

"-" Not Available

NEXT-GEN MINI-CON • 1/2 TO 6 HP

SHIPPED-LOOSE ACCESSORIES

Option Description	Cabinet Size	List Price Adder (\$US)
Crankcase Pressure Regulating Valve	ALL	Contact Factory
External Fused Disconnect	FM4	1,739
Two-Tiered Stacking Rack	ALL	Contact Factory
Snow / Hail Guards	FM1	712
	FM2	786
	FM3	852
	FM4	1,042
Snow Legs	ALL	474

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-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-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

POWER CONNECTION

Factory installed components on the condensing unit in place of the defrost provisions to allow for powering EcoNet[®] enabled evaporators

Kit Model	Max Amps	List Price (\$US)
EF-30A	30A	670
EF-60A	60A	877

† 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	-	-	-	1,119
	20 Amps Heater (w/ relay)	ED6-A2	-	-	-	1,119
	25 Amps Heater (w/ relay)	ED7-A2	-	-	-	1,119
	Up to 30 Amps Heater (w/ relay)	ED10-A2	-	-	-	1,119
	30 Amps - Heater (w/ contactors)	-	ED11-B2	-	-	1,119
2	Up to 15 Amps Heaters each (w/relays)	ED20-A2	-	-	-	3,494
	15 Amps Heaters each	ED21-A2	ED21-B2	-	-	3,494
	25 Amps Heaters each (w/ relays)	ED23-A2	-	-	-	3,592
	25 Amps Heaters each (w/ contactors)	-	ED23-B2	-	-	3,592
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	-	-	-	1,119
	30 Amps Heater	ED12-A4	ED12-BX	ED12-C2	ED12-C4	2,550
	50 Amps Heater	-	ED14-BX	ED14-C2	ED14-C4	2,985
2	Up to 15 Amps Heaters per Unit Cooler	-	ED22-BX	ED22-C2	ED22-C4	4,291
	25 Amps Heaters per Unit Cooler	-	ED24-BX	ED24-C2	ED24-C4	4,291

NOTE: Defrost Kits are only available factory mounted and cannot be shipped loose.

NEXT-GEN II

3 TO 22 HP



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.

FEATURES & OPTIONS

● Standard ○ Optional

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.	●

Continued on next page

NEXT-GEN II

3 TO 22 HP



FEATURES & OPTIONS	● Standard	○ Optional
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	●	
Non-flooded models include fan cycle control	●	
Flooded models include flooded head pressure control (70°F)	●	
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	42,342	1,004
				460/3/60	KFDS04M4SGA	44,978	
		2DD3R63K	05	208-230/3/60	KFDS05M4SEA	43,108	1,004
				460/3/60	KFDS05M4SGA	45,636	
	FD2	2DL3R78K	06	208-230/3/60	KFDS06M4SEA	53,539	1,213
				460/3/60	KFDS06M4SGA	57,263	
		2DA3R89K	07	208-230/3/60	KFDS07M4SEA	54,677	1,213
				460/3/60	KFDS07M4SGA	58,017	
		3DA3R10M	08	208-230/3/60	KFDS08M4SEA	61,315	1,213
				460/3/60	KFDS08M4SGA	64,990	
		3DB3R12M	10	208-230/3/60	KFDS10M4SEA	65,752	1,583
				460/3/60	KFDS10M4SGA	69,152	
	FD3	3DF3R15M	12	208-230/3/60	KFDS12M4SEA	71,226	1,927
				460/3/60	KFDS12M4SGA	74,014	
3DS3R17M		15	208-230/3/60	KFDS15M4SEA	72,802	2,454	
			460/3/60	KFDS15M4SGA	75,260		

Factory Mounted Options found on page 112.

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	04	208-230/3/60	KBDS04M4SEB	39,617	1,004
			460/3/60	KBDS04M4SGB	42,201	
	FD1	05	208-230/3/60	KBDS05M4SEB	40,363	1,004
			460/3/60	KBDS05M4SGB	42,847	
	FD2	06	208-230/3/60	KBDS06M4SEA	50,599	1,213
			460/3/60	KBDS06M4SGA	54,254	
		07	208-230/3/60	KBDS07M4SEA	51,712	1,213
			460/3/60	KBDS07M4SGA	54,994	
		08	208-230/3/60	KBDS08M4SEA	58,230	1,213
			460/3/60	KBDS08M4SGA	61,831	
	010	208-230/3/60	KBDS10M4SEA	62,582	1,583	
		460/3/60	KBDS10M4SGA	65,919		
	FD3	12	208-230/3/60	KBDS12M4SEA	67,950	1,927
			460/3/60	KBDS12M4SGA	70,687	
15		208-230/3/60	KBDS15M4SEA	70,877	2,454	
		460/3/60	KBDS15M4SGA	73,334		

Factory Mounted Options found on page 112

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	41,222	1,004
				460/3/60	KFDS03L4SGA	44,078	
		2DL3F20K	04	208-230/3/60	KFDS04L4SEA	45,194	1,004
				460/3/60	KFDS04L4SGA	48,091	
		2DA3F23K	05	208-230/3/60	KFDS05L4SEA	46,286	1,004
				460/3/60	KFDS05L4SGA	49,574	
	FD2	3DA3F28K	06	208-230/3/60	KFDS06L4SEA	50,467	1,213
				460/3/60	KFDS06L4SGA	53,785	
		3DB3F33K	08	208-230/3/60	KFDS08L4SEA	56,502	1,213
				460/3/60	KFDS08L4SGA	59,171	
		3DF3F40K	09	208-230/3/60	KFDS09L4SEA	63,223	1,583
				460/3/60	KFDS09L4SGA	66,963	
	3DS3F46K	10	208-230/3/60	KFDS10L4SEA	68,636	1,583	
			460/3/60	KFDS10L4SGA	69,822		
	FD3	4DBNF54K	12	208-230/3/60	KFDS12L4SEA	69,998	1,927
				460/3/60	KFDS12L4SGA	71,596	
		4DHNF63K	15	208-230/3/60	KFDS15L4SEA	73,569	2,454
				460/3/60	KFDS15L4SGA	74,740	
4DJNF76K		22	208-230/3/60	KFDS22L4SEA	83,379	3,024	
			460/3/60	KFDS22L4SGA	84,776		

Factory Mounted Options found on page 112

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	56,281	1,004
				460/3/60	KFDS05L4SGALT	59,296	
	FD2	3DB3F33K	08	208-230/3/60	KFDS08L4SEALT	68,973	1,213
				460/3/60	KFDS08L4SGALT	68,893	
		3DS3F46K	10	208-230/3/60	KFDS10L4SEALT	82,467	1,583
				460/3/60	KFDS10L4SGALT	81,177	
		4DHNF63K	15	208-230/3/60	KFDS15L4SEALT	90,728	2,454
				460/3/60	KFDS15L4SGALT	89,423	

Factory Mounted Options found on page 112
 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	03	208-230/3/60	KBDS03L4SEB	39,295	1,004	
			460/3/60	KBDS03L4SGB	42,155		
	FD1	04	208-230/3/60	KBDS04L4SEB	43,267	1,004	
			460/3/60	KBDS04L4SGB	46,166		
	FD1	05	208-230/3/60	KBDS05L4SEB	44,360	1,004	
			460/3/60	KBDS05L4SGB	47,650		
	FD2	3DA3F28K	06	208-230/3/60	KBDS06L4SEA	48,546	1,213
				460/3/60	KBDS06L4SGA	51,863	
		3DB3F33K	08	208-230/3/60	KBDS08L4SEA	54,575	1,213
				460/3/60	KBDS08L4SGA	57,250	
		3DF3F40K	09	208-230/3/60	KBDS09L4SEA	61,300	1,583
				460/3/60	KBDS09L4SGA	65,036	
		3DS3F46K	10	208-230/3/60	KBDS10L4SEA	66,712	1,583
				460/3/60	KBDS10L4SGA	67,898	
4DBNF54K	12	208-230/3/60	KBDS12L4SEA	68,075	1,927		
		460/3/60	KBDS12L4SGA	69,671			
4DHNF63K	15	208-230/3/60	KBDS15L4SEA	71,650	2,454		
		460/3/60	KBDS15L4SGA	72,816			
FD3	4DJNF76K	22	208-230/3/60	KBDS22L4SEA	81,454	3,024	
			460/3/60	KBDS22L4SGA	82,849		

Factory Mounted Options found on page 112

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	38,180	565
				460/3/60	KFOS04E4SGA	41,196	
		ZS33KAE	05	208-230/3/60	KFOS05E4SEA	38,860	585
				460/3/60	KFOS05E4SGA	41,819	
		ZS38K4E	06	208-230/3/60	KFOS06E4SEA	44,280	585
				460/3/60	KFOS06E4SGA	47,832	
	FD2	ZS45K4E	07	208-230/3/60	KFOS07E4SEA	45,141	969
				460/3/60	KFOS07E4SGA	48,507	
		ZB58K5E	08	208-230/3/60	KFOS08E4SEA	46,927	969
				460/3/60	KFOS08E4SGA	50,391	
		ZB66K5E	09	208-230/3/60	KFOS09E4SEA	49,523	1,041
				460/3/60	KFOS09E4SGA	52,626	
	ZB76K5E	10	208-230/3/60	KFOS10E4SEA	57,899	1,041	
			460/3/60	KFOS10E4SGA	60,101		
	FD3	ZB95K5E	13	208-230/3/60	KFOS13E4SEA	64,124	1,240
				460/3/60	KFOS13E4SGA	64,271	
		ZB114K5E	15	208-230/3/60	KFOS15E4SEA	71,597	1,250
				460/3/60	KFOS15E4SGA	74,867	

Factory Mounted Options found on page 112

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	46,230	969
				460/3/60	KFOS07E4SGAMT	49,596	
	FD2	ZB58K5E	08	208-230/3/60	KFOS08E4SEAMT	48,016	969
				460/3/60	KFOS08E4SGAMT	51,480	
	FD2	ZB76K5E	10	208-230/3/60	KFOS10E4SEAMT	58,988	1,041
				460/3/60	KFOS10E4SGAMT	61,190	
	FD3	ZB114K5E	15	208-230/3/60	KFOS15E4SEAMT	72,686	1,250
				460/3/60	KFOS15E4SGAMT	75,956	

Factory Mounted Options found on page 112

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	36,254	565
				460/3/60	KBOS04E4SGB	39,270	
		ZS33KAE	05	208-230/3/60	KBOS05E4SEB	36,934	585
				460/3/60	KBOS05E4SGB	39,894	
		ZS38K4E	06	208-230/3/60	KBOS06E4SEB	42,355	585
				460/3/60	KBOS06E4SGB	45,905	
	FD2	ZS45K4E	07	208-230/3/60	KBOS07E4SEA	43,217	969
				460/3/60	KBOS07E4SGA	46,582	
		ZB58K5E	08	208-230/3/60	KBOS08E4SEA	44,113	969
				460/3/60	KBOS08E4SGA	47,512	
		ZB66K5E	09	208-230/3/60	KBOS09E4SEA	46,664	1,041
				460/3/60	KBOS09E4SGA	49,703	
	ZB76K5E	10	208-230/3/60	KBOS10E4SEA	54,877	1,041	
			460/3/60	KBOS10E4SGA	57,035		
	FD3	ZB95K5E	13	208-230/3/60	KBOS13E4SEA	60,983	1,240
				460/3/60	KBOS13E4SGA	61,128	
		ZB114K5E	15	208-230/3/60	KBOS15E4SEA	68,316	1,250
				460/3/60	KBOS15E4SGA	71,523	

Factory Mounted Options found on page 112

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	43,505	969
				460/3/60	KFOS08L4SGA	46,076	
	FD2	ZF34K5E	10	208-230/3/60	KFOS10L4SEA	54,000	1,041
				460/3/60	KFOS10L4SGA	57,173	
		ZF41K5E	13	208-230/3/60	KFOS13L4SEA	61,031	1,240
				460/3/60	KFOS13L4SGA	62,076	
	FD3	ZF49K5E	15	208-230/3/60	KFOS15L4SEA	63,060	1,250
				460/3/60	KFOS15L4SGA	64,482	

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	41,577	969
				460/3/60	KBOS08L4SGB	44,149	
	FD2	ZF34K5E	10	208-230/3/60	KBOS10L4SEA	52,072	1,041
				460/3/60	KBOS10L4SGA	55,249	
		ZF41K5E	13	208-230/3/60	KBOS13L4SEA	59,106	1,240
				460/3/60	KBOS13L4SGA	60,153	
	FD3	ZF49K5E	15	208-230/3/60	KBOS15L4SEA	61,136	1,250
				460/3/60	KBOS15L4SGA	62,559	

Factory Mounted Options found on page 112
 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	45,583	1,004
				460/3/60	KFBS03E4SGA	48,573	
	FD1	2CES-4	04	208-230/3/60	KFBS04E4SEA	46,304	1,004
				460/3/60	KFBS04E4SGA	49,184	
	FD1	4FES-5	05	208-230/3/60	KFBS05E4SEA	47,049	1,004
				460/3/60	KFBS05E4SGA	49,825	
	FD2	4EES-6	06	208-230/3/60	KFBS06E4SEA	51,571	1,213
				460/3/60	KFBS06E4SGA	53,518	
		4DES-7	07	208-230/3/60	KFBS07E4SEA	56,028	1,213
				460/3/60	KFBS07E4SGA	57,145	
		4CES-9	08	208-230/3/60	KFBS08E4SEA	64,361	1,213
				460/3/60	KFBS08E4SGA	67,580	
4TES-12	10	208-230/3/60	KFBS10E4SEA	65,139	1,583		
		460/3/60	KFBS10E4SGA	68,987			
FD3	4PES-15	12	208-230/3/60	KFBS12E4SEA	67,906	1,927	
			460/3/60	KFBS12E4SGA	71,447		
	4NES-20	15	208-230/3/60	KFBS15E4SEA	69,454	2,454	
			460/3/60	KFBS15E4SGA	72,851		

Factory Mounted Options found on page 112

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	43,660	1,004
				460/3/60	KBBS03E4SGB	46,649	
	FD1	2CES-4	04	208-230/3/60	KBBS04E4SEB	44,377	1,004
				460/3/60	KBBS04E4SGB	47,258	
	FD1	4FES-5	05	208-230/3/60	KBBS05E4SEB	45,129	1,004
				460/3/60	KBBS05E4SGB	47,901	
	FD2	4EES-6	06	208-230/3/60	KBBS06E4SEA	49,647	1,213
				460/3/60	KBBS06E4SGA	51,594	
		4DES-7	07	208-230/3/60	KBBS07E4SEA	54,104	1,213
				460/3/60	KBBS07E4SGA	55,223	
		4CES-9	08	208-230/3/60	KBBS08E4SEA	61,217	1,213
				460/3/60	KBBS08E4SGA	64,375	
4TES-12	10	208-230/3/60	KBBS10E4SEA	61,976	1,583		
		460/3/60	KBBS10E4SGA	65,752			
FD3	4PES-15	12	208-230/3/60	KBBS12E4SEA	64,694	1,927	
			460/3/60	KBBS12E4SGA	68,167		
	4NES-20	15	208-230/3/60	KBBS15E4SEA	66,210	2,454	
			460/3/60	KBBS15E4SGA	69,546		

Factory Mounted Options found on page 112

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	40,426	1,004
				460/3/60	KFBS03L4SGA	42,012	
		4EES-4	04	208-230/3/60	KFBS04L4SEA	44,430	1,004
				460/3/60	KFBS04L4SGA	46,014	
		4DES-5	05	208-230/3/60	KFBS05L4SEA	46,686	1,004
				460/3/60	KFBS05L4SGA	48,435	
	4CES-6	06	208-230/3/60	KFBS06L4SEA	55,929	1,213	
			460/3/60	KFBS06L4SGA	58,197		
	FD2	4TES-9	07	208-230/3/60	KFBS08L4SEA	59,827	1,213
				460/3/60	KFBS08L4SGA	62,000	
		4PES-12	08	208-230/3/60	KFBS09L4SEA	64,051	1,213
				460/3/60	KFBS09L4SGA	66,108	
		4NES-14	10	208-230/3/60	KFBS10L4SEA	68,339	1,583
				460/3/60	KFBS10L4SGA	70,399	
4JE-15	12	208-230/3/60	KFBS12L4SEA	73,660	1,927		
		460/3/60	KFBS12L4SGA	75,718			
4HE-18	15	208-230/3/60	KFBS15L4SEA	79,104	2,454		
		460/3/60	KFBS15L4SGA	81,155			
FD3	4GE-23	22	208-230/3/60	KFBS22L4SEA	81,155	3,024	
			460/3/60	KFBS22L4SGA	84,152		

Factory Mounted Options found on page 112

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	38,502	1,004
				460/3/60	KBBS03L4SGB	40,087	
		4EES-4	04	208-230/3/60	KBBS04L4SEB	42,503	1,004
				460/3/60	KBBS04L4SGB	44,086	
		4DES-5	05	208-230/3/60	KBBS05L4SEB	44,760	1,004
				460/3/60	KBBS05L4SGB	46,507	
	4CES-6	06	208-230/3/60	KBBS06L4SEB	54,005	1,213	
			460/3/60	KBBS06L4SGB	56,274		
	FD2	4TES-9	07	208-230/3/60	KBBS08L4SEA	57,898	1,213
				460/3/60	KBBS08L4SGA	60,078	
		4PES-12	08	208-230/3/60	KBBS09L4SEA	62,123	1,213
				460/3/60	KBBS09L4SGA	64,181	
		4NES-14	10	208-230/3/60	KBBS10L4SEA	66,414	1,583
				460/3/60	KBBS10L4SGA	68,469	
	4JE-15	12	208-230/3/60	KBBS12L4SEA	71,735	1,927	
			460/3/60	KBBS12L4SGA	73,792		
	4HE-18	15	208-230/3/60	KBBS15L4SEA	77,179	2,454	
			460/3/60	KBBS15L4SGA	79,229		
FD3	4GE-23	22	208-230/3/60	KBBS22L4SEA	75,115	3,024	
			460/3/60	KBBS22L4SGA	82,226		

Factory Mounted Options found on page 112

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	3,162
	TDNM-4	12-22	3,537
External Fused Disconnect (available loose or mounted)	EFDM-2 (230V)	3 - 6	2,048
	EFDM-3 (230V)	7 - 10	2,434
	EFDM-4 (230V)	12 - 22	5,193
	EFDM-2 (460V)	3 - 6	2,404
	EFDM-3 (460V)	7 - 10	4,326
	EFDM-4 (460V)	12 - 22	7,141
Main Circuit Breaker	BKR-2	3 - 6	2,924
	BKR-3	7 - 10	3,682
	BKR-4	12 - 22	4,632
Phase Loss Monitor †	PLM	ALL	2,301
Anti Short Cycle Timer	ASC	ALL	1,361
Air Defrost Timer	TMR	ALL	1,132
Current Sensing Relay (Run proof)	CSR	ALL	1,508
Compressor Unloaders	UNL-1	When Available	4,232
Variable Speed EC Motors & Controller	-	FD1	5,136
	-	FD2 & FD3	8,720
Finkote2 Coil Coating	-	FD1	3,945
	-	FD2	6,580
	-	FD3	10,130

† 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	2,332	DMB35	35	3,533	DMC35	35	5,315
DMA20	20	2,332	DMB40	40	3,533	DMC40	40	5,315
DMA24	24	2,332	DMB48	48	3,533	DMC48	48	5,315
DMA30	30	2,332	DMB60	60	5,081	DMC60	60	6,570
DMA35	35	2,605	DMB96	96	5,081	DMC96	96	6,570
DMA40	40	2,605						
DMA48	48	2,605						
DMB60	60	5,081						
DMB96	96	5,081						

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 <i>(all options are factory mounted unless otherwise noted)</i>	Option No.	H.P Range/ Cabinet	List Price Adder (\$US)
Suction Line Filter (sealed)	SK-5	3 - 8	911
	SK-6	9 - 10	1,546
	SK-7	12 - 22	2,409
Replaceable Core Suction Filter ¹	RSK-5	3 - 8	1,750
	RSK-6	9 - 10	2,389
	RSK-7	12 - 22	3,235
Replaceable Core Liquid Filter ¹	RLK-5	3 - 8	1,541
	RLK-6	9 - 10	1,751
	RLK-7	12 - 22	1,983
Suction Line Accumulator	ASK-4	3 - 8	1,541
	ASK-5	9 - 10	2,266
	ASK-6	12 - 22	4,731
Oil Separator	OS-1	3 - 6	2,623
	OS-2	7 - 10	2,794
	OS-3	12 - 22	3,282
Oversized Receivers	OSR-1	FD1	2,315
	OSR-2	FD2	1,296
	OSR-3	FD3	1,309
Pressure Relief Valve	RV	FD1 (standard receiver)	587
Heated & Insulated Receiver (temperature controlled with low pressure bypass timer)	HIR	ALL	1,524
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	3,018
		6 - 9	3,345
		10 - 15	6,236
		22	9,756
Liquid Injection / Demand Cooling™ (Low Temp. Bitzer & Discus compressors)	LNJ	All Models	4,938
Hail / Snow Guards (shipped loose to prevent shipping damage. Requires field installation)	SG-E	1 Fan	1,866
	SG-F	2 Fan	2,550
	SG-G	2 Fan Tall	2,860
2 Unit Stacking Rack~ (shipped empty. Condensing units must be field installed.)	SR-2	FD1 or FD2	Call Factory
3 Unit Stacking Rack~ (shipped empty. Condensing units must be field installed.)	SR-3	FD1 or FD2	Call Factory

~ Requires field installation.

QV-SERIES 15 TO 100 HP



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	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.

FEATURES & OPTIONS

● Standard ○ Optional

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	●

Continued on next page

QV-SERIES

15 TO 100 HP



FEATURES & OPTIONS	● Standard	○ Optional
LED control and compressor panel lighting	●	○
110V service convenience outlet	●	○
Service gauge hooks	●	○
3 Phase condenser fan motors	●	○
Color-coded high and low pressure hoses	●	○
Electronic oil failure control	●	○
Horizontal receiver	●	○
Receiver isolation valves	●	○
Refrigerant relief valve	●	○
Replaceable core liquid line filter	●	○
Suction line and discharge line vibrasorbers	●	○
Liquid line isolation valve with sight glass	●	○
Single point alarm with liquid line solenoid lockout	●	○
Control circuit and condenser fan fusing	●	○
Condenser fan contactors	●	○
UL and cUL listed for outdoor use	●	○
Flooded (RF) Models include an adjustable head	●	○
Pressure control valve	●	○
Non-Flooded (RB) Models include electronic fan cycling control and a minimum charge monitor	●	○
Parallel Compressor Models (RF*P/ RB*P) include an oil management system	●	○
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

	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	82,224	83,570	81,727	83,118	2,454
	20	K*DV020M4S*A	4DBNR20ME	91,006	92,288	89,070	90,892	3,024
	25	K*DV025M4S*A	4DHNR22ME	108,670	109,863	106,463	108,301	4,045
	30	K*DV030M4S*A	4DJNR28ME	127,015	128,402	120,138	121,629	4,195
	35	K*DV035M4S*A	6DHNR35ME	143,857	144,678	138,547	138,925	4,423
	40	K*DV040M4S*A	6DJNR40ME	158,309	160,509	152,198	154,429	5,106
	50	K*DV050M4S*A	6DUNR49ME	-	191,617	-	181,978	5,274
Low Temp.	22	K*DV022L4S*A	4DJNF76KE	102,228	104,378	102,210	103,503	3,024
	27	K*DV027L4S*A	6DHNF93KE	118,333	119,277	116,040	118,133	4,045
	30	K*DV030L4S*A	6DJNF11ME	130,737	131,940	128,041	130,186	4,195
	40	K*DV040L4S*A	6DUNF13ME	-	164,284	-	161,602	5,106

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*BVO15M4S*A	4NE-20	82,224	83,570	81,727	83,118	2,454
	20	K*BVO20M4S*A	4JE-22	91,006	92,288	89,070	90,892	3,024
	25	K*BVO25M4S*A	4HE-25	108,670	109,863	106,463	108,301	4,045
	30	K*BVO30M4S*A	4GE-30	127,015	128,402	120,138	121,629	4,195
	35	K*BVO35M4S*A	6HE-35	143,857	144,678	138,547	138,925	4,423
	40	K*BVO40M4S*A	6GE-40	158,309	160,509	152,198	154,429	5,106
	50	K*BVO50M4S*A	6FE-50	190,191	191,617	180,624	181,978	5,274
Low Temp.	22	K*BVO22L4S*A	4GE-23	102,228	104,378	102,210	103,503	3,024
	27	K*BVO27L4S*A	6HE-28	118,333	119,277	116,040	118,133	4,045
	30	K*BVO30L4S*A	6GE-34	130,737	131,940	128,041	130,186	4,195
	40	K*BVO40L4S*A	6FE-44	163,062	164,284	160,715	161,602	5,106

Factory Mounted Options start on page 119

* 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

"-" Not Available

QV-SERIES • 15 TO 100 HP

DISCUS 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*DD030M4S*A	3DS3R17ME	164,451	167,141	163,453	166,235	4,195
	40	K*DD040M4S*A	4DBNR20ME	182,013	184,576	178,144	181,785	5,106
	50	K*DD050M4S*A	4DHNR22ME	217,342	219,726	212,927	216,610	5,274
	60	K*DD060M4S*A	4DJNR28ME	254,039	256,808	240,274	243,256	8,390
	70	K*DD070M4S*A	6DHNR35ME	287,711	289,359	277,094	277,853	8,846
	80	K*DD080M4S*A	6DJNR40ME	316,623	321,018	304,395	308,855	10,212
	100	K*DD100M4S*A	6DUNR49ME	-	383,237	-	363,956	10,548
Low Temp.	44	K*DD044L4S*A	4DJNF76KE	204,452	208,754	204,421	207,005	6,048
	54	K*DD054L4S*A	6DHNF93KE	236,661	238,551	232,081	236,266	8,090
	60	K*DD060L4S*A	6DJNF11ME	261,471	263,878	256,083	260,361	8,390
	80	K*DD080L4S*A	6DUNF13ME	-	328,573	-	323,204	10,212

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	164,451	167,141	163,453	166,235	4,195
	40	K*BD040M4S*A	4JE-22	182,013	184,576	178,144	181,785	5,106
	50	K*BD050M4S*A	4HE-25	217,342	219,726	212,927	216,610	5,274
	60	K*BD060M4S*A	4GE-30	254,039	256,808	240,274	243,256	8,390
	70	K*BD070M4S*A	6HE-35	287,711	289,359	277,094	277,853	8,846
	80	K*BD080M4S*A	6GE-40	316,623	321,018	304,395	308,855	10,212
	100	K*BD100M4S*A	6FE-50	380,384	383,237	361,246	363,956	10,548
Low Temp.	44	K*BD044L4S*A	4GE-23	204,452	208,754	204,421	207,005	6,048
	54	K*BD054L4S*A	6HE-28	236,661	238,551	232,081	236,266	8,090
	60	K*BD060L4S*A	6GE-34	261,471	263,878	256,083	260,361	8,390
	80	K*BD080L4S*A	6FE-44	326,127	328,573	320,796	323,204	10,212

Factory Mounted Options start on page 119

* 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

"-" Not Available

QV-SERIES • 15 TO 100 HP

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

	Nom. H.P.	Model No.	Comp. Model No. (2 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	244,227	246,313	239,160	242,769	5,274
	60	K*DP060M4S*A	4DJNR28ME	278,647	281,178	262,686	265,514	8,390
	70	K*DP070M4S*A	6DHNR35ME	313,295	314,703	301,294	301,671	8,846
	80	K*DP080M4S*A	6DJNR40ME	339,809	345,107	326,161	331,519	10,212
	100	K*DP100M4S*A	6DUNR49ME	-	425,393	-	402,859	10,548
Low Temp.	44	K*DP044L4S*A	4DJNF76KE	231,919	236,179	231,885	234,184	6,048
	54	K*DP054L4S*A	6DHNF93KE	262,361	263,919	257,182	261,369	8,090
	60	K*DP060L4S*A	6DJNF11ME	285,540	287,681	279,529	283,794	8,390
	80	K*DP080L4S*A	6DUNF13ME	-	364,712	-	358,656	10,212

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

	Nom. H.P.	Model No.	Comp. Model No. (2 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	244,227	246,313	239,160	242,769	5,274
	60	K*BP060M4S*A	4GE-30	278,647	281,178	262,686	265,514	8,390
	70	K*BP070M4S*A	6HE-35	313,295	314,703	301,294	301,671	8,846
	80	K*BP080M4S*A	6GE-40	339,809	345,107	326,161	331,519	10,212
	100	K*BP100M4S*A	6FE-50	422,225	425,393	399,856	402,859	10,548
Low Temp.	44	K*BP044L4S*A	4GE-23	231,919	236,179	231,885	234,184	6,048
	54	K*BP054L4S*A	6HE-28	262,361	263,919	257,182	261,369	8,090
	60	K*BP060L4S*A	6GE-34	285,540	287,681	279,529	283,794	8,390
	80	K*BP080L4S*A	6FE-44	422,225	364,712	355,982	358,656	10,212

Factory Mounted Options start on page 119

* 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

"-" Not Available

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	3,242
	Compressor Unloading with Pressure Control for 2 Cycle Bank	035M & 045M	5,430
	Compressor Unloading: Moduload	DV015M	8,001
	Head Cooling Fan	All Models	3,374
	Liquid Injection / Demand Cooling	022L - 040L	7,411
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	1,089
	Anti-Short Cycle Timer	All Models	940
	Condenser Fan Breaker & Control Circuit Breaker	015M -030M; 022L - 040L	1,879
		035M -050M	2,618
	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	2,871
		Models with 61A < MOPD < 101A	4,252
		Models with 101A < MOPD < 201A	7,283
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,670
		Models with 101A < MOPD < 226A	5,953
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,584
		Models with 59A < MCA > 99A	3,751
		Models with 99A < MCA < 199A	6,204
	Phase-Loss Monitor - 250A	230 V & 460 V	1,815
Phase-Loss Monitor - ICM450	230 V	2,646	
	460 V	1,881	

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	6,372
		020M - 040M; 022L - 030L	8,026
		050M & 040L	15,928
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	2,862
	Heat Reclaim Valve	All Models	6,623
	Heated & Insulated Receiver	All Models	5,040
	Hot Gas Bypass Tee & Ball Valve	All Models	1,553
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	9,004
	Liquid-line Filter Isolation Valve (single valve)	All Models	896
	Liquid Line Solenoid Valve (shipped loose)	015M - 025M; 022L - 040L	1,113
		030M - 035M	1,423
		040M - 050M	2,152
	Oil Separator with Check Valve	015 - 030	3,088
		035 - 050	5,214
	Oil Separator with Check Valve & Oil Return Service Kit	015 - 030	6,836
		035 - 050	9,679
	Oversized Receiver	All Models	2,145
	Receiver Level Gauge	All Models	2,660
	Suction Accumulator - Standard	15	4,803
		020-050	5,555
	Suction Accumulator - Heat Exchanger	15	5,953
		020-050	9,215
	Suction-line Filter - Replaceable Core	015M	3,150
		020M - 040M; 022L - 030L	3,289
		050M & 040L	4,112
	Suction-line Filter Isolation Valves	015M	1,470
		020M - 040M; 022L - 030L	2,366
		050M & 040L	4,116
Suction-line Insulation	All Models	2,605	

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	6,485
	Compressor Unloading with Pressure Control for 2 Cycle Bank	D070M & D080M	10,861
	Compressor Unloading: Moduload	DD030M	16,001
	Head Cooling Fan	All Models	6,750
	Liquid Injection / Demand Cooling	D044L - D080L	14,823
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	2,177
	Anti-Short Cycle Timer	All Models	1,880
	Condenser Fan Breaker	D030M -D060M; D044L - D080L	3,298
		D070M -D100M	4,774
	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	2,871
		Models with 61A < MOPD < 101A	4,252
		Models with 101A < MOPD < 201A	7,283
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,670
		Models with 101A < MOPD < 226A	5,953
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,584
		Models with 59A < MCA > 99A	3,751
		Models with 99A < MCA < 199A	6,204
	Phase-Loss Monitor - 250A	230 V & 460 V	3,629
Phase-Loss Monitor - ICM450	460 V	3,763	

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	12,743
		D040M - D080M; D044L - D060L	16,052
		D100M & D080L	31,857
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,726
	Heat Reclaim Valve	All Models	13,246
	Heated & Insulated Receiver	All Models	10,080
	Hot Gas Bypass Tee & Ball Valve	All Models	3,108
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	18,009
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	1,793
	Liquid Line Solenoid Valve (shipped loose)	030M - 050M; 044L - 080L	2,227
		060M - 070M	2,847
		080M - 100M	4,304
	Oil Separator with Check Valve	D030 - D060	6,175
		D070 - D100	10,427
	Oil Separator with Check Valve & Oil Return Service Kit	D030 - D060	13,671
		D070 - D100	19,358
	Oversized Receiver	All Models	4,291
	Receiver Level Gauge	All Models	5,321
	Suction Accumulator - Standard	D030	9,606
		D040-D100	11,111
	Suction Accumulator - Heat Exchanger	D030	11,907
		D040-D100	18,432
	Suction-line Filter - Replaceable Core	D030M	6,299
		D040M - D080M; D044L - D060L	6,577
D100M & D080L		8,224	
Suction-line Filter Isolation Valves	D030M	2,940	
	D040M - D080M; D044L - D060L	4,732	
	D100M & D080L	8,232	
Suction-line Insulation	All Models	5,210	

QV-SERIES • 15 TO 100 HP

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

	Option Description (all options are factory mounted unless otherwise noted)	Option Available On:	List Price Adder (\$US)
Compressor Options	Compressor Unloading with Pressure Control for 1 Cycle Bank	P050M - P060M, P100M; P044L - P080L	6,485
	Compressor Unloading with Pressure Control for 2 Cycle Bank	P070M & P080M	10,861
	Head Cooling Fan	All Models	6,750
	Liquid Injection / Demand Cooling	P044L - P080L	14,823
Electrical and Control Panel Options	Air Defrost Time Clock	All Medium Temperature Models	1,089
	Anti-Short Cycle Timer	All Models	940
	Condenser Fan Breaker & Control Circuit Breaker	P050M -P060M; P044L - P080L	1,879
		P070M -P100M	2,618
	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	2,871
		Models with 61A < MOPD < 101A	4,252
		Models with 101A < MOPD < 201A	7,283
	Thru-the-door Main Breaker	Models with MOPD ≤ 100A	3,670
		Models with 101A < MOPD < 226A	5,953
	Thru-the-door Non-Fused Disconnect	Models with MCA < 59A	2,584
		Models with 59A < MCA > 99A	3,751
		Models with 99A < MCA < 199A	6,204
	Phase-Loss Monitor - 250A	230 V & 460 V	1,815
Phase-Loss Monitor - ICM450	460 V	1,881	

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	16,052
		P070M-P100M; P044L - P080L	18,739
	Fan Cycling - Temperature or Pressure	All Flooded Models; Standard on Non-Flooded Models	5,726
	Heat Reclaim Valve	All Models	6,623
	Heated & Insulated Receiver	All Models	5,040
	Hot Gas Bypass Tee & Ball Valve	All Models	1,553
	Hot Gas Bypass Tee, Ball Valve & Regulator	All Models	9,004
	Liquid-line Filter Isolation Valve (single valve per circuit)	All Models	896
	Liquid Line Solenoid Valve (shipped loose)	050M - 060M	8,922
		070M - 100M	3,639
		044L - 080L	1,395
	Oversized Receiver	All Models	2,145
	Receiver Level Gauge	All Models	2,660
	Suction Accumulator - Standard	P050M-P60M	6,666
		P070M-P100M; P044L - P080L	7,255
	Suction Accumulator - Heat Exchanger	P050M-P60M	9,215
		P070M-P100M; P044L - P080L	10,184
	Suction-line Filter - Replaceable Core	P050M-P60M	2,944
		P070M-P100M; P044L - P080L	3,289
	Suction-line Filter Isolation Valves	P050M-P60M	4,112
P070M-P100M; P044L - P080L		6,499	
Suction-line Insulation	All Models	5,210	

QV-SERIES • 15 TO 100 HP

FACTORY INSTALLED OPTIONS // FINKOTE2 COIL COATING // ALL STANDARD & OVERSIZED COIL MODELS

	Option Description	Option Available On:	List Price Adder (\$US)
Finkote2 Coating	1x2 Finkote2 Coil Coating	Std. and Oversized models with 2 fan Condenser	18,000
	1x3 Finkote2 Coil Coating	Std. and Oversized models with 3 fan Condenser	27,000
	2x2 Finkote2 Coil Coating	Std. and Oversized models with 2 x 2 fan Condenser	25,000
	2x3 Finkote2 Coil Coating	Std. and Oversized models with 2 x 3 fan Condenser	35,000

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		-1: 1 Evaporator with Multiple Heater Feeds
	B - 2		-2: 2 Evaporators with Multiple Heater Feeds
	C - 3		PP: Pressure Prop Kits for Large Evaporators
	D - 4		

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	3,000						
DLA30 ¹	3,118						
DLA35 ¹	3,510	DLB35 ¹	4,478	DLC35	6,118		
DLA40 ¹	3,510	DLB40 ¹	4,478	DLC40	6,118		
DLA48 ¹	3,510	DLB48 ¹	4,478	DLC48	6,118		
		DLB60 ¹²⁴	4,657	DLC60 ¹	6,118	DLD60	7,236
		DLB96 ¹²⁴	5,640	DLC96 ¹	6,489	DLD96	7,293
				DLC144 ¹	8,840	DLD144 ³⁵	8,900
						DLD192 ³⁵	9,354

FACTORY INSTALLED OPTIONS // DEFROST KITS // DUAL COMPRESSOR MODELS

For Dual Units, 2 Defrost Kits Required, Only 2 Contactor Kits can be used on Dual Units

1 Heater Contactor per Compressor		2 Heater Contactors per Compressor	
Kit Model	List Price (\$US)	Kit Model	List Price (\$US)
DLA24 ¹	3,000		
DLA30 ¹	3,118		
DLA35 ¹	3,510	DLB35 ¹	4,478
DLA40 ¹	3,510	DLB40 ¹	4,478
DLA48 ¹	3,510	DLB48 ¹	4,478
		DLB60 ¹²⁴	4,657
		DLB96 ¹²⁴	5,640

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	1,655
TMR-EF-30A	30	1,754

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	199	1,494						
30	266	2,324						
35	266	2,324	266	2,756	394	2,960		
40	266	2,324	266	2,756	394	2,960		
48	266	2,324	266	2,756	394	2,960		
60			371	4,635	567	4,895	611	5,124
96			475	4,667	648	6,237	783	6,428
144					820	6,449	1,071	7,741
192							1,078	7,823

Dual Compressor Units require 2 Fuse blocks & 2 Circuit Breaker, 1 per compressor. Up to 2 contactors/compressor. When selecting the circuit breaker option, evaporator heater contactors and evaporator fan contactors are included.

WATER-COOLED CONDENSING UNITS

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.

FEATURES & OPTIONS

● Standard ○ Optional

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	●
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.	Comp. 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	8,991	-	-	224
	FW1	1/2	RST55C1E	KWH080E4S*A	9,176	-	-	224
	FW1	3/4	RST64C1E	KWH090E4S*A	9,454	-	-	224
	FW1	3/4	RST70C1E	KWH100E4S*A	10,210	10,556	-	224
	FW2	1	RST97C1E	KWH125E4S*A	10,942	10,856	-	246

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.	Comp. 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	16,060	16,084	-	416
	FW1	1/2	ZB07KAE	KWO080M4S*A	16,217	16,272	-	416
	FW1	1	ZB08KAE	KWO100M4S*A	16,377	16,484	-	416
Extended Medium Temp	FW1	1-1/3	ZS09KAE	KWO130E4S*A	16,556	16,722	17,337	416
	FW2	1-1/2	ZS11KAE	KWO150E4S*A	17,712	17,883	18,492	416
	FW2	1-3/4	ZS13KAE	KWO180E4S*A	18,135	18,301	18,912	416
	FW3	2	ZS15KAE	KWO200E4S*A	18,449	18,615	19,227	416
	FW3	2-1/2	ZS19KAE	KWO250E4S*A	18,662	18,868	19,592	416
	FW4	3	ZS21KAE	KWO300E4S*A	18,944	19,186	20,024	546
	FW4	3-1/2	ZS26KAE	KWO350E4S*A	20,126	20,386	20,983	546
	FW4	4	ZS29KAE	KWO400E4S*A	20,768	21,056	21,635	565
	FW4	4-1/2	ZS33KAE	KWO450E4S*A	20,505	20,796	21,551	565
	FW4	5	ZS38K4E	KWO500E4S*A	21,530	21,828	22,759	585
FW4	6	ZS45K4E	KWO600E4S*A	-	25,191	25,598	585	

Factory Mounted Options start on page 97

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

"-" Not Available

Continued on next page

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.	Comp. 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	16,827	17,754	-	416
	FW2	1-1/3	ZF04KAE	KWO130L4S*A	17,239	18,064	-	416
	FW2	1-1/2	ZF05KAE	KWO160L4S*A	17,775	18,487	-	416
	FW2	2	ZF07KAE	KWO230L4S*A	18,779	19,028	19,624	416
	FW3	2-1/2	ZF08K4E	KWO250L4S*A	19,427	19,701	19,910	416
	FW3	3	ZF09K4E	KWO300L4S*A	19,899	20,192	22,612	546
	FW3	3-1/2	ZF11K4E	KWO350L4S*A	20,800	21,095	21,592	546
	FW4	4	ZF13K4E	KWO400L4S*A	21,695	21,975	22,474	565
	FW4	5	ZF15K4E	KWO500L4S*A	21,975	22,249	22,764	585
	FW4	6	ZF18K4E	KWO600L4S*A	-	25,083	26,444	585

Factory Mounted Options start on page 97

* 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 (all options are factory mounted unless otherwise noted)	H.P Range/Cabinet	List Price Adder (\$US)
Water Regulating Valve (shipped loose)	0.5 - 2.0	1,148
	2.5 - 3.5	1,247
	4.0 - 4.5	1,400
	5.0 - 6.5	2,062
Cupronickel Water Regulating Valve	ALL	Contact Factory
External Fused Disconnect (Mounted)	FW1 - FW2	1,029
	FW3 - FW4	1,896
External Fused Disconnect (Loose)	FW4	1,737
Liquid Line with Premium Components: Replaceable Core Filter/Drier	FW4	961
Suction Line Components: Sealed Filter	FW1	623
	FW2 - FW4	743
Suction Line Components: Replaceable Core Filter	FW4	2,186
Suction Accumulator	FW1	962
	FW2 - FW4	1,484
Oil Separator	FW4	2,361
Compressor Pump-down Switch	ALL	615
Phase Loss Monitor (only available on units that are 3 Phase)	ALL	2,134
Cupronickel Heat Exchanger	ALL	Contact Factory
Two-Tiered Stacking Rack (shipped loose)	ALL	Contact Factory
Heated & Insulated Receiver (temperature controlled w/low pressure bypass timer)	ALL	1,302
Thru The Door - Non - Fused - Disconnect Switch	FW1 - FW2	915
	FW3 - FW4	1,216
Remove Standard Defrost Kit (Low Temp only)	ALL	(1,119)
Remove Standard Air Defrost Timer (Medium Temp only)	ALL	(929)
Substitute Standard Air Defrost Timer For Standard Defrost Kit (ED5-ED11) Medium Temp only. For Defrost Kit Options, please see page 94	ALL	190

NEXT-GEN WC-SERIES • 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 WC-SERIES • 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-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-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

POWER CONNECTION

Factory installed components on the condensing unit in place of the defrost provisions to allow for powering EcoNet[®] enabled evaporators

Kit Model	Max Amps	List Price (\$US)
EF-30A	30A	670
EF-60A	60A	877

[†] Heater contactor amperage is based on its resistive rating.

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

NEXT-GEN WC-SERIES • 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	460 V	
				3 PH. FANS 3 PH. HTRS	3 PH. FANS 3 PH. HTRS	
DEFROST KITS WHEN THE EVAPORATOR FAN MOTORS ARE WIRED FOR 230/1						
1	Up to 15 Amps Heater (w/ relay)	ED5-A2	-	-	-	1,120
	20 Amps Heater (w/ relay)	ED6-A2	-	-	-	1,120
	25 Amps Heater (w/ relay)	ED7-A2	-	-	-	1,120
	Up to 30 Amps Heater (w/ relay)	ED10-A2	-	-	-	1,120
	30 Amps - Heater (w/ contactors)	-	ED11-B2	-	-	1,120
2	Up to 15 Amps Heaters each (w/relays)	ED20-A2	-	-	-	3,494
	15 Amps Heaters each	ED21-A2	ED21-B2	-	-	3,494
	25 Amps Heaters each (w/ relays)	ED23-A2	-	-	-	3,592
	25 Amps Heaters each (w/ contactors)	-	ED23-B2	-	-	3,592
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	-	-	-	1,120
	30 Amps Heater	ED12-A4	ED12-BX	ED12-C2	ED12-C4	2,550
	50 Amps Heater	-	ED14-BX	ED14-C2	ED14-C4	2,985
2	Up to 15 Amps Heaters per Unit Cooler	-	ED22-BX	ED22-C2	ED22-C4	4,291
	25 Amps Heaters per Unit Cooler	-	ED24-BX	ED24-C2	ED24-C4	4,291

NOTE: Defrost Kits are only available factory mounted and cannot be shipped loose.

AIR-COOLED CONDENSERS

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 to 7	

*Capacity at 10 FPI per 1°F TD

FEATURES & OPTIONS

● Standard ○ Optional

Inverter duty rail mounted motors	●	Heavy gauge painted galvanized steel construction	●
Vertical air flow	●	Heavy duty lifting eyes for equipment rigging	●
Motors with inherent thermal overload protection	●	UL and cUL listed for outdoor use	●
3/8"refrigerant saving copper tube, aluminum fin coils*	●	LED control panel lighting	●
650 PSIG working pressure	●	Flooded head pressure control	○
Vinyl coated heavy gauge steel fan guards	●	Fan cycling head pressure control	○
Swept wing fan/Venturi improves airflow and sound	●	Sub-cooling circuit	○
Hinged Venturi panels for easy servicing	●	Multi-circuited coils	○
Hinged leg design for simple installation	●	Wide selection of fin coatings and materials	○
Proprietary floating coil design	●	Multiple control panel locations	○
Thru-the-door non-fused disconnect switch	●	Fixed box style legs	○

QUANTUM AIR™

MODELS WITH 1140 RPM, 1.5 HP MOTORS

	Model No.	List Price (\$US)				Fan Configuration
		8 FPI	10 FPI	12 FPI	14 FPI	
Single Fan Width	KDS004^B1A	13,317	14,065	14,813	15,561	1 x 1
	KDS006^B1A	16,940	17,688	18,436	19,184	1 x 1
	KDS007^B1A	18,917	19,665	20,413	21,161	1 x 1
	KDS012^B2A	27,851	29,347	30,843	32,339	1 x 2
	KDS015^B2A	38,301	39,797	41,293	42,789	1 x 2
	KDS018^B2A	45,367	46,863	48,359	49,855	1 x 2
	KDS022^B3A	56,010	58,254	60,498	62,742	1 x 3
	KDS027^B3A	65,192	67,436	69,680	71,924	1 x 3
	KDS030^B4A	78,245	81,237	84,229	87,221	1 x 4
	KDS036^B4A	88,487	91,479	94,471	97,463	1 x 4
	KDS039^B5A	97,622	101,362	105,102	108,842	1 x 5
	KDS047^B5A	113,544	117,284	121,024	124,764	1 x 5
	KDS056^B6A	135,880	140,368	144,856	149,344	1 x 6
	KDS065^B7A	159,660	164,896	170,132	175,368	1 x 7
Double Fan Width	KDD022^B2A	57,507	60,499	63,491	66,483	2 x 2
	KDD030^B2A	76,466	79,458	82,450	85,442	2 x 2
	KDD036^B2A	89,015	92,007	94,999	97,991	2 x 2
	KDD045^B3A	114,377	118,865	123,353	127,841	2 x 3
	KDD054^B3A	133,773	138,261	142,749	147,237	2 x 3
	KDD059^B4A	153,140	159,124	165,108	171,092	2 x 4
	KDD072^B4A	176,704	182,688	188,672	194,656	2 x 4
	KDD078^B5A	195,247	202,727	210,207	217,687	2 x 5
	KDD094^B5A	227,429	234,909	242,389	249,869	2 x 5
	KDD113^B6A	271,726	280,702	289,678	298,654	2 x 6
KDD131^B7A	320,098	330,570	341,042	351,514	2 x 7	

Factory Mounted Options start on page 144

^ 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	13,183	13,931	14,679	15,427	1 x 1
	KDS005^D1A	16,835	17,583	18,331	19,079	1 x 1
	KDS007^D1A	18,756	19,504	20,252	21,000	1 x 1
	KDS010^D2A	28,477	29,973	31,469	32,965	1 x 2
	KDS014^D2A	38,185	39,681	41,177	42,673	1 x 2
	KDS015^D2A	42,334	43,830	45,326	46,822	1 x 2
	KDS021^D3A	56,350	58,594	60,838	63,082	1 x 3
	KDS024^D3A	63,778	66,022	68,266	70,510	1 x 3
	KDS028^D4A	76,524	79,516	82,508	85,500	1 x 4
	KDS032^D4A	85,791	88,783	91,775	94,767	1 x 4
	KDS035^D5A	93,573	97,313	101,053	104,793	1 x 5
	KDS043^D5A	112,284	116,024	119,764	123,504	1 x 5
	KDS052^D6A	134,733	139,221	143,709	148,197	1 x 6
	KDS060^D7A	157,970	163,206	168,442	173,678	1 x 7
Double Fan Width	KDD019^D2A	55,409	58,401	61,393	64,385	2 x 2
	KDD028^D2A	76,242	79,234	82,226	85,218	2 x 2
	KDD031^D2A	83,247	86,239	89,231	92,223	2 x 2
	KDD041^D3A	113,403	117,891	122,379	126,867	2 x 3
	KDD048^D3A	128,722	133,210	137,698	142,186	2 x 3
	KDD055^D4A	153,217	159,201	165,185	171,169	2 x 4
	KDD065^D4A	171,942	177,926	183,910	189,894	2 x 4
	KDD069^D5A	187,072	194,552	202,032	209,512	2 x 5
	KDD086^D5A	224,964	232,444	239,924	247,404	2 x 5
	KDD103^D6A	269,601	278,577	287,553	296,529	2 x 6
	KDD121^D7A	315,981	326,453	336,925	347,397	2 x 7

Factory Mounted Options start on page 144

^ 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	12,322	13,070	13,818	14,566	1 x 1
	KDS006^L1A	15,939	16,687	17,435	18,183	1 x 1
	KDS008^L1A	19,043	19,791	20,539	21,287	1 x 1
	KDS010^L2A	26,752	28,248	29,744	31,240	1 x 2
	KDS012^L2A	33,728	35,224	36,720	38,216	1 x 2
	KDS015^L2A	40,757	42,253	43,749	45,245	1 x 2
	KDS019^L3A	53,272	55,516	57,760	60,004	1 x 3
	KDS023^L3A	60,951	63,195	65,439	67,683	1 x 3
	KDS026^L4A	73,749	76,741	79,733	82,725	1 x 4
	KDS030^L4A	83,622	86,614	89,606	92,598	1 x 4
	KDS032^L5A	89,828	93,568	97,308	101,048	1 x 5
	KDS040^L5A	110,590	114,330	118,070	121,810	1 x 5
	KDS048^L6A	133,432	137,920	142,408	146,896	1 x 6
	KDS056^L7A	156,139	161,375	166,611	171,847	1 x 7
Double Fan Width	KDD017^L2A	51,549	54,541	57,533	60,525	2 x 2
	KDD026^L2A	73,720	76,712	79,704	82,696	2 x 2
	KDD030^L2A	83,656	86,648	89,640	92,632	2 x 2
	KDD038^L3A	111,471	115,959	120,447	124,935	2 x 3
	KDD046^L3A	130,024	134,512	139,000	143,488	2 x 3
	KDD051^L4A	149,684	155,668	161,652	167,636	2 x 4
	KDD060^L4A	170,432	176,416	182,400	188,384	2 x 4
	KDD063^L5A	181,707	189,187	196,667	204,147	2 x 5
	KDD080^L5A	224,135	231,615	239,095	246,575	2 x 5
	KDD097^L6A	269,191	278,167	287,143	296,119	2 x 6
	KDD113^L7A	315,501	325,973	336,445	346,917	2 x 7

Factory Mounted Options start on page 144

^ 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	14,220	14,968	15,716	16,464	1 x 1
	KDS005^E1A	16,735	17,483	18,231	18,979	1 x 1
	KDS006^E1A	18,848	19,596	20,344	21,092	1 x 1
	KDS008^E2A	28,031	29,527	31,023	32,519	1 x 2
	KDS011^E2A	36,921	38,417	39,913	41,409	1 x 2
	KDS012^E2A	40,822	42,318	43,814	45,310	1 x 2
	KDS016^E3A	56,503	58,747	60,991	63,235	1 x 3
	KDS018^E3A	61,911	64,155	66,399	68,643	1 x 3
	KDS021^E4A	77,445	80,437	83,429	86,421	1 x 4
	KDS025^E4A	86,812	89,804	92,796	95,788	1 x 4
	KDS028^E5A	98,388	102,128	105,868	109,608	1 x 5
	KDS032^E5A	109,022	112,762	116,502	120,242	1 x 5
	KDS040^E6A	138,701	143,189	147,677	152,165	1 x 6
	KDS046^E7A	162,157	167,393	172,629	177,865	1 x 7
Double Fan Width	KDD016^E2A	60,083	63,075	66,067	69,059	2 x 2
	KDD021^E2A	77,445	80,437	83,429	86,421	2 x 2
	KDD025^E2A	86,042	89,034	92,026	95,018	2 x 2
	KDD032^E3A	118,833	123,321	127,809	132,297	2 x 3
	KDD037^E3A	130,123	134,611	139,099	143,587	2 x 3
	KDD043^E4A	158,989	164,973	170,957	176,941	2 x 4
	KDD050^E4A	177,084	183,068	189,052	195,036	2 x 4
	KDD055^E5A	202,816	210,296	217,776	225,256	2 x 5
	KDD063^E5A	222,619	230,099	237,579	245,059	2 x 5
	KDD080^E6A	282,257	291,233	300,209	309,185	2 x 6
KDD093^E7A	328,213	338,685	349,157	359,629	2 x 7	

Factory Mounted Options start on page 144

^ 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	24,123	24,871	25,619	26,367	1 x 1
	KDS005^G1A	27,750	28,498	29,246	29,994	1 x 1
	KDS007^G1A	29,727	30,475	31,223	31,971	1 x 1
	KDS010^G2A	49,466	50,962	52,458	53,954	1 x 2
	KDS014^G2A	59,915	61,411	62,907	64,403	1 x 2
	KDS015^G2A	66,985	68,481	69,977	71,473	1 x 2
	KDS021^G3A	88,436	90,680	92,924	95,168	1 x 3
	KDS025^G3A	97,615	99,859	102,103	104,347	1 x 3
	KDS028^G4A	121,478	124,470	127,462	130,454	1 x 4
	KDS033^G4A	131,721	134,713	137,705	140,697	1 x 4
	KDS035^G5A	151,662	155,402	159,142	162,882	1 x 5
	KDS044^G5A	167,584	171,324	175,064	178,804	1 x 5
	KDS052^G6A	200,731	205,219	209,707	214,195	1 x 6
	KDS061^G7A	235,317	240,553	245,789	251,025	1 x 7
Double Fan Width	KDD020^G2A	100,745	103,737	106,729	109,721	2 x 2
	KDD028^G2A	119,700	122,692	125,684	128,676	2 x 2
	KDD032^G2A	132,250	135,242	138,234	141,226	2 x 2
	KDD042^G3A	179,225	183,713	188,201	192,689	2 x 3
	KDD049^G3A	198,623	203,111	207,599	212,087	2 x 3
	KDD056^G4A	239,606	245,590	251,574	257,558	2 x 4
	KDD065^G4A	263,168	269,152	275,136	281,120	2 x 4
	KDD070^G5A	303,332	310,812	318,292	325,772	2 x 5
	KDD087^G5A	335,512	342,992	350,472	357,952	2 x 5
	KDD105^G6A	401,424	410,400	419,376	428,352	2 x 6
	KDD122^G7A	471,431	481,903	492,375	502,847	2 x 7

Factory Mounted Options start on page 144

^ 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	24,123	24,871	25,619	26,367	1 x 1
	KDS006^K1A	27,750	28,498	29,246	29,994	1 x 1
	KDS008^K1A	29,727	30,475	31,223	31,971	1 x 1
	KDS013^K2A	49,466	50,962	52,458	53,954	1 x 2
	KDS016^K2A	59,915	61,411	62,907	64,403	1 x 2
	KDS019^K2A	66,985	68,481	69,977	71,473	1 x 2
	KDS024^K3A	88,436	90,680	92,924	95,168	1 x 3
	KDS028^K3A	97,615	99,859	102,103	104,347	1 x 3
	KDS032^K4A	121,478	124,470	127,462	130,454	1 x 4
	KDS038^K4A	131,721	134,713	137,705	140,697	1 x 4
	KDS041^K5A	151,662	155,402	159,142	162,882	1 x 5
	KDS049^K5A	167,584	171,324	175,064	178,804	1 x 5
	KDS059^K6A	200,731	205,219	209,707	214,195	1 x 6
	KDS069^K7A	235,317	240,553	245,789	251,025	1 x 7
Double Fan Width	KDD023^K2A	100,745	103,737	106,729	109,721	2 x 2
	KDD032^K2A	119,700	122,692	125,684	128,676	2 x 2
	KDD038^K2A	132,250	135,242	138,234	141,226	2 x 2
	KDD047^K3A	179,225	183,713	188,201	192,689	2 x 3
	KDD057^K3A	198,623	203,111	207,599	212,087	2 x 3
	KDD063^K4A	239,606	245,590	251,574	257,558	2 x 4
	KDD075^K4A	263,168	269,152	275,136	281,120	2 x 4
	KDD082^K5A	303,332	310,812	318,292	325,772	2 x 5
	KDD099^K5A	335,512	342,992	350,472	357,952	2 x 5
	KDD118^K6A	401,424	410,400	419,376	428,352	2 x 6
KDD138^K7A	471,431	481,903	492,375	502,847	2 x 7	

Factory Mounted Options start on page 144

^ 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

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	868	868	1,469	1,670	1,830	2,003	2,167
Main Power Circuit Breaker	1,780	1,780	2,204	2,204	2,204	2,204	2,204
Bladed Safety Switch, Non-fused	1,585	1,585	3,054	3,054	3,054	3,054	3,054
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	640	640	640	640	640	640	640
Fan Cycling Options - Requires Contactor Option							
Ambient fan cycling†	-	1,769	2,410	3,214	4,011	4,815	5,619
Mechanical Pressure fan cycling (per circuit) w/o Headert	-	2,660	2,914	3,879	4,852	5,823	6,787
Mechanical Pressure fan cycling (per circuit) w/ Headert	-	3,390	4,365	5,338	6,317	7,291	8,284
Electronic Pressure fan cycling (per circuit) w/o Headert	-	2,759	3,459	5,744	8,032	10,316	12,120
Electronic Pressure fan cycling (per circuit) w/ Headert	-	3,919	6,204	8,486	10,782	12,559	14,758
		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	1,670	2,003	2,584	3,171	3,760	4,344	
Main Power Circuit Breaker	2,204	2,204	2,360	2,360	2,360	2,360	
Bladed Safety Switch, Non-fused	3,054	3,054	3,856	3,856	3,856	3,856	
110 VAC - 20 Amp Convenience Outlet powered by separate building feed or transformer	640	640	640	640	640	640	
Fan Cycling Options - Requires Contactor Option							
Ambient fan cycling†	1,769	2,410	3,214	4,011	4,815	5,619	
Mechanical Pressure fan cycling (per circuit) w/o Headert	2,660	2,914	3,879	4,852	5,823	6,787	
Mechanical Pressure fan cycling (per circuit) w/ Headert	3,390	4,365	5,338	6,317	7,291	8,284	
Electronic Pressure fan cycling (per circuit) w/o Headert	2,759	3,459	5,744	8,032	10,316	12,120	
Electronic Pressure fan cycling (per circuit) w/ Headert	3,919	6,204	8,486	10,782	12,559	14,758	
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) ambient controlled†	Contact Factory						

Notes and references for Options on page 147.
 "-" Not Available

Continued on next page

QUANTUM AIR™

FACTORY MOUNTED OPTIONS

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)	574						
Control Circuit Transformer†	1,082						
	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)†	5,709	5,709	5,709	5,709	5,709	5,709	5,709
CPC Relay Boards (2)+ XFMR (2x5 thru 2x7 config)†	-	-	-	-	-	-	-
CPC Relay Board Condenser Split 50/50 (1 Board + Relay)	5,940	5,940	5,940	5,940	5,940	5,940	5,940
CPC Analog Speed Control Board And Transformer	5,976	5,976	5,976	5,976	5,976	5,976	5,976
DANFOSS Relay Board + XFMR (1x1 thru 2x4 config)†	5,730	5,730	5,730	5,730	5,730	5,730	5,730
DANFOSS Relay Boards (2) + XFMR (2x5 thru 2x7 config)†	-	-	-	-	-	-	-
DANFOSS Relay Board Condenser Split 50/50 (Relay)†	8,415	8,415	8,415	8,415	8,415	8,415	8,415
DANFOSS Analog Speed Control Board And Transformer	6,617	6,617	6,617	6,617	6,617	6,617	6,617
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)†	5,709	5,709	5,709	-	-	-	
CPC Relay Boards (2)+ Xfmr (2x5 Thru 2x7 Config)†	-	-	-	10,706	10,706	10,706	
CPC Relay Board Condenser Split 50/50 (1 Board + Relay)	5,940	5,940	5,940	5,940	5,940	5,940	
CPC Analog Speed Control Board And Transformer	5,976	5,976	5,976	5,976	5,976	5,976	
DANFOSS Relay Board + Xfmr (1x1 Thru 2x4 Config)†	5,730	5,730	5,730	-	-	-	
DANFOSS Relay Boards (2) + Xfmr (2x5 Thru 2x7 Config)†	-	-	-	11,748	11,748	11,748	
DANFOSS Relay Board Condenser Split 50/50 (Relay)†	8,415	8,415	8,415	8,415	8,415	8,415	
DANFOSS Analog Speed Control Board And Transformer	6,617	6,617	6,617	6,617	6,617	6,617	
VSEC Stand Alone Motor Control (C450)	Contact Factory						

Notes and references for Options on page 147.

"-" Not Available

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†	454	908	1,362	1,816	2,270	2,724	3,178
Paired Motor Contactors†	Not Available						
NEMA rated Contactors - Individual†	1,864	3,728	5,592	7,456	9,320	11,184	13,048
NEMA rated Contactors - PAIRED†	Not Available						
Individual motor fuses†	458	916	1,374	1,832	2,290	2,748	3,206
Paired motor fuses†	Not Available						
Individual circuit breakers††	1,271	2,542	3,813	5,084	6,355	7,626	8,897
Paired circuit breakers††	Not Available						
Individual motor terminal boards†	322	644	966	1,288	1,610	1,932	2,254
Paired motor terminal blocks†	Not Available						
Fan toggle switches - per fan (to control contactors)†	192	384	576	768	960	1,152	1,344
Fan toggle switches - PAIRED (to control contactors)†	Not Available						
Fan toggle switches - per fan (to control Motors)†	868	1,736	2,604	3,472	4,340	5,208	6,076
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†	1,816	2,724	3,632	4,540	5,448	6,356	
Paired Motor Contactors†	1,816	2,724	3,632	4,540	5,448	6,356	
Nema Rated Contactors - Individual†	7,456	11,184	14,912	18,640	22,368	26,096	
Nema Rated Contactors - Paired†	7,456	11,184	14,912	18,640	22,368	26,096	
Individual Motor Fuses†	1,832	2,748	3,664	4,580	5,496	6,412	
Paired Motor Fuses†	1,832	2,748	3,664	4,580	5,496	6,412	
Individual Circuit Breakers††	5,084	7,626	10,168	12,710	15,252	17,794	
Paired Circuit Breakers††	5,084	7,626	10,168	12,710	15,252	17,794	
Individual Motor Terminal Boards†	1,288	1,932	2,576	3,220	3,864	4,508	
Paired Motor Terminal Blocks†	1,288	1,932	2,576	3,220	3,864	4,508	
Fan Toggle Switches - Per Fan (To Control Contactors)†	768	1,152	1,536	1,920	2,304	2,688	
Fan Toggle Switches - Paired (To Control Contactors)†	768	1,152	1,536	1,920	2,304	2,688	
Fan Toggle Switches - Per Fan (To Control Motors)†	3,472	5,208	6,944	8,680	10,416	12,152	
Fan Toggle Switches - Paired (To Control Motors)†	3,472	5,208	6,944	8,680	10,416	12,152	

Notes and references for Options on next page.

QUANTUM AIR™

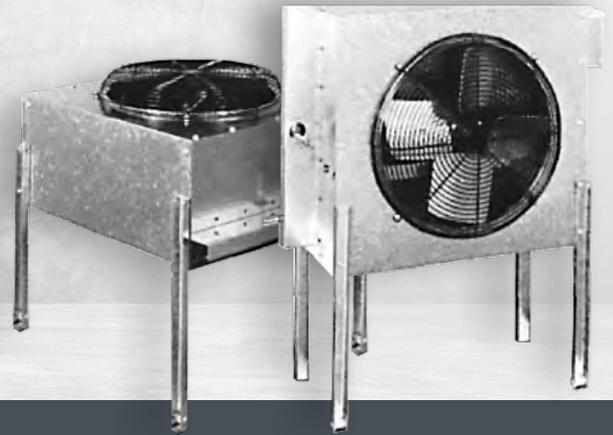
FACTORY MOUNTED OPTIONS

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	1,283	1,876	2,765	3,393	3,989	4,590	5,149
Stainless Steel Housing	Contact Application Engineering						
Leg Length - 21" Or 30" - Standard Vertical Air Discharge	269	535	800	800	800	987	1,254
Leg Length - 46" (Vertical Air Discharge Only)	320	633	947	947	947	1,167	1,475
Box Style Leg At Every Location- 25" (Vertical Air Discharge Only)	931	1,395	1,862	2,326	2,790	3,254	3,720
Sealtite Wiring To Motor Rail	400	494	750	1,012	1,247	1,506	1,754
Sealtite Wiring To Electrical Box	1,327	2,654	3,981	5,308	6,635	7,962	9,289
Condenser Base With 18" Legs (Vertical Air Discharge Only)	3,246	4,687	6,129	8,775	10,618	12,172	14,138
Condenser Base With 30 Or 46" Legs (Vertical Air Discharge Only)	3,476	5,146	6,813	8,690	11,761	13,496	15,683
Finkote2 Coil Coating	15,000	18,000	26,500	35,000	43,500	48,750	54,000
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	3,755	5,470	6,783	7,977	9,174	10,303	
Stainless Steel Housing	Contact Application Engineering						
Leg Length - 21" Or 30" - Standard Vertical Air Discharge	535	800	800	800	987	1,254	
Leg Length - 46" (Vertical Air Discharge Only)	633	947	947	947	1,167	1,475	
Box Style Leg At Every Location- 25" (Vertical Air Discharge Only)	1,395	1,862	2,326	2,790	3,254	3,720	
Sealtite Wiring To Motor Rail	1,012	1,506	2,003	2,509	3,008	3,492	
Sealtite Wiring To Electrical Box	5,308	7,962	10,616	13,270	15,924	18,578	
Condenser Base With 18" Legs (Vertical Air Discharge Only)	4,687	6,129	8,775	10,618	12,659	14,704	
Condenser Base With 30 Or 46" Legs (Vertical Air Discharge Only)	5,146	6,813	9,695	11,761	14,034	16,309	
Finkote2 Coil Coating	25,000	35,000	45,000	55,000	67,500	72,500	
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 Coil Density
A = 8 FPI
B = 10 FPI
C = 12 FPI
D = 14 FPI</p> | <p>8. Coil Material & Coating Options*
1 = Aluminum fins
2 = Copper fins
3 = Al + AST coating
6 = Al + Heresite</p> <p>9. Housing Material & Coatings*
2 = Galvanized</p> <p>10. Unit Design Configuration
A = Vertical Fan Discharge, Standard Legs
E = Vertical Fan Discharge, 30" Legs
N = Horizontal Fan Discharge, Standard Legs</p> <p>11. Circuit Splitting Options
1 = Full
2 = 50/50
X = Other</p> <p>12. 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.

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* 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	5,293	1 x 1	KDS007*A2B12A1A	16,908	1 x 2
KDS002*A1B12A1A	7,595		KDS009*A2B12A1A	21,256	
KDS003*A1B12A1A	8,684		KDS011*A2B12A1A	23,105	
KDS005*A1B12A1A	13,707				
1075 RPM • 0.75 HP Motors • 3 Phase (E & G)					
KDS001*T1B12A1A	5,087	1 x 1	KDS007*T2B12A1A	16,712	1 x 2
KDS002*T1B12A1A	6,593		KDS009*T2B12A1A	20,338	
KDS003*T1B12A1A	7,334		KDS011*T2B12A1A	22,772	
KDS005*T1B12A1A	13,191				
850 RPM • 0.25 HP Motors • Single Phase (D & F)					
KDS001*C1B12A1A	5,293	1 x 1	KDS006*C2B12A1A	16,908	1 x 2
KDS002*C1B12A1A	7,595		KDS008*C2B12A1A	21,256	
KDS003*C1B12A1A	8,684		KDS009*C2B12A1A	23,105	
KDS004*C1B12A1A	13,707				
850 RPM • 0.25 HP Motors • 3 Phase (E & G)					
KDS001*C1B12A1A	5,551	1 x 1	KDS006*C2B12A1A	17,425	1 x 2
KDS002*C1B12A1A	7,854		KDS008*C2B12A1A	21,771	
KDS003*C1B12A1A	8,941		KDS009*C2B12A1A	23,620	
KDS004*C1B12A1A	13,965				
1075 RPM • 0.5 HP Motors • TEAO • 3 Phase (E & G)					
KDS001*H1B12A1A	7,025	1 x 1	KDS007*H2B12A1A	20,591	1 x 2
KDS002*H1B12A1A	8,534		KDS009*H2B12A1A	24,218	
KDS003*H1B12A1A	9,277		KDS011*H2B12A1A	26,651	
KDS005*H1B12A1A	15,129				

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	(622)	-	793	1,585
1 x 2	(1,244)	-	1,585	3,161

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	286	286
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.
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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.
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