



Supersedes  
All Prices Prior  
To March, 2015

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**NOMENCLATURE**

**K**      **W**      **F**      **050**      **A**      **E**      **1**      **B**      **1**      **1**      **A**      **1**      **A**  
 I      II      III      IV      V      VI      VII      VIII      IX      X      XI      XII      XIII

**I. Model Series**

K – Kramer

**II. Unit type**

W – Walk In Unit Cooler

**III. Series**

F – Low Air Velocity

**IV. Capacity – Three Number Characters**

050, 075, 100, 130, 160, 190, 220, 270, 340

**V. Voltage Code**

A – 115/1/60  
 D – 208-230/1/60  
 F – 460/1/60  
 L – 100/1/50  
 M – 200-220/1/50  
 P – 380/1/50  
 X – Other

**VI. Motor/Fan Type**

E – (EC) Electronically Commutated  
 P – (PSC) Permanent Split Capacitor  
 S – (SP) Shaded Pole  
 X – Other

**VII. Length in Fans**

1, 2, 3, 4, 5, 6

**VIII. Coil Density**

B – 6 fpi

**IX. Coil Material and Coating Options**

1 – Aluminum Fins (Al)	} Post Coat Materials
2 – Copper Fins (Cu)	
3 – Al + AST Coating	
4 – Al + Blygold	
5 – Al + Bronze Glow	
6 – Al + Heresite	
8 – Baked Epoxy Coating	
X – Other	

**X. Housing Material and Coatings**

1 – Aluminum, Embossed  
 3 – White Painted  
 6 – Stainless Steel 304  
 X – Other

**XI. Unit Design Configuration**

A – Air Defrost  
 E – Electric Defrost  
 G – Hot Gas Reverse Cycle Defrost with Drain Pan Loop  
 H – Hot Gas Re-Evaporative Defrost with Drain Pan Loop  
 K – Hot Gas Reverse Cycle Defrost with 115V Heater  
 L – Hot Gas Reverse Cycle Defrost with 208/230V Heater  
 X – Other

**XII. Not Currently used**

**XIII. Revision Code – Single Alphanumeric Character**

A – Initial Release

**BASE MODELS**

Model Number	Air Defrost 115/1/60	Fan Configuration	Approx Net Weight (lbs)
KWF050AE1B11A1A	\$3,735	1 x 1	50
KWF075AE2B11A1A	4,284	1 x 2	75
KWF100AE2B11A1A	5,405	1 x 2	75
KWF130AE3B11A1A	6,176	1 x 3	100
KWF160AE3B11A1A	6,868	1 x 3	110
KWF190AE4B11A1A	8,566	1 x 4	120
KWF220AE4B11A1A	9,847	1 x 4	130
KWF270AE5B11A1A	10,874	1 x 5	150
KWF340AE6B11A1A	13,883	1 x 6	180

**POSITION V**

**Voltage options**

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base model features, "C/F" = Contact Factory

Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A – 115/1/60	—	Available for motor codes E, P, S
D – 208-230/1/60	\$48	Available for motor codes E, P, S
F – 460/1/60	15	Available for motor code P only
L – 100/1/50	—	Available for motor codes E, P, S
M – 200-220/1/50	48	Available for motor codes E, P, S
P – 380/1/50	15	Available for motor code P only

Heat Exchanger/Accumulator must be priced separately if required. See page 3.

**POSITION VI**

**Motor / Fan Type options**

Note: "N/A" = Not available, "N/C" = No additional charge, "—" = Base model features, "C/F" = Contact Factory

Motor / Fan Type	Adder/(Deduct) Per Fan Section	Available Based Upon Position V
E - Electronically Commutated - Single Speed	—	Available for A,D,L,M
D - Electronically Commutated - Dual Speed	\$238 238	Available for A,L Available for D,M
P - Permanent Split Capacitor - price deduct	(450)	Available for A,L,D,M,F,P

**POSITION VII** Length in Fans - No additional charge

**POSITION VIII Coil Density - 6 FPI** - No additional charge

**Position - IX**

**Coil Material and Coating options**

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

**Position - X**

**Housing Material<sup>1</sup> and Coating options**

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

**Position - XI Unit Design Configuration - Horizontal Air Discharge Only**

Note: "N/A" = Not available, "N/C" = No additional charge, "-" = Base model features, "C/F" = Contact Factory

ELECTRIC DEFROST - Code E		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	N/A	N/A
D - 208-230/1/60	\$240	Available for motor codes E, P, S
F - 460/1/60	325	Available for motor code P only
L - 100/1/50	N/A	N/A
M - 200-220/1/50	240	Available for motor codes E, P, S
P - 380/1/50	325	Available for motor code P only

HOT GAS DEFROST - Reverse Cycle with Hot Gas drain pan loop - Code G		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$421	Available for motor codes E, P, S
D - 208-230/1/60	421	Available for motor codes E, P, S
F - 460/1/60	421	Available for motor code P only
L - 100/1/50	421	Available for motor codes E, P, S
M - 200-220/1/50	421	Available for motor codes E, P, S
P - 380/1/50	421	Available for motor code P only

HOT GAS DEFROST - Reverse Cycle with electric drain pan heater - Code K or L		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$275	Available for motor codes E, P, S
D - 208-230/1/60	275	Available for motor codes E, P, S
F - 460/1/60	N/A	N/A
L - 100/1/50	275	Available for motor codes E, P, S
M - 200-220/1/50	275	Available for motor codes E, P, S
P - 380/1/50	N/A	N/A

HOT GAS DEFROST - Re-evaporative with Drain Pan loop - Code H		
Voltage Code	Adder/(Deduct) Per Fan Section	Available Based Upon Position VI Motor Options
A - 115/1/60	\$357	Available for motor codes E, P, S
D - 208-230/1/60	357	Available for motor codes E, P, S
F - 460/1/60	357	Available for motor code P only
L - 100/1/50	357	Available for motor codes E, P, S
M - 200-220/1/50	357	Available for motor codes E, P, S
P - 380/1/50	357	Available for motor code P only

Heat Exchanger/Accumulator (HEA) must be priced separately if required. See the table below.

**Position - XII**

Insulated Drain Pan		
Fan Configuration	No Insulation	Insulated Drain Pan <sup>1</sup>
1 X 1	—	\$2,458
1 X 2	—	3,154
1 X 3	—	4,078
1 X 4	—	4,634
1 X 5	—	5,497
1 X 6	—	6,360

1. Insulated Drain Pan not available with stainless steel or galvanized steel pans.

**Position - XIII** Revision Code: A - Initial Release

**Optional Heat Exchanger/Accumulators for use with Hot Gas Re-Evap models (shipped loose)**

MODEL NUMBER	LIST PRICE
HEA-1A	\$3,095
HEA-2A	3,234
HEA-3A	3,656
HEA-4A	3,834
HEA-5A	4,184
HEA-6A	4,415

**Optional Expansion Valves**

Balanced Port Expansion Valve - Loose	1/4 thru 3 Tons	\$412
	4 thru 9 Tons	581
Balanced Port Expansion Valve - Mounted	1/4 thru 3 Tons	533
	4 thru 9 Tons	810

**Optional Room T-Stat**

Type	RANGE	LIST
Mechanical - Loose	-30 to + 100	\$274
Mechanical - Mounted @ Evap	-30 to + 100	297
Electronic - Loose	-30 to + 100	353
Electronic - Mounted @ Evap	-30 to + 100	698

**Optional Liquid Line Solenoid Valve**

HORSEPOWER RANGE	LOOSE*	MTD*
1/2 thru 3 HP	\$270	\$291
4 thru 8 HP	302	337

**PRINCIPAL TERMS AND CONDITIONS OF SALE**

1. **Applicable Law and Terms of Sale:** All orders shall be subject to the following terms and conditions notwithstanding any additional or contrary printed terms and conditions of Buyer. Such additional or contrary terms shall not bind Seller unless accepted in writing even though such terms do not materially alter the terms hereof. No oral statements, warranties, stipulations, representations or terms shall have any binding effect or be any part of the contract whatsoever.
2. **Orders:** All orders must be in writing and will be binding when our order acknowledgment is mailed. Orders are accepted subject to strikes, fires, accidents, and other causes beyond our reasonable control. Acceptance of your order is conditioned upon an agreement to hold us harmless by reason of delivery delays.
3. **Prices:** Prices are subject to change without notice, and all quotations, unless otherwise specified, are binding only for immediate acceptance. Prices are based on material made to Seller's standard tolerances, unless otherwise specified.
4. **Freight:** All products are shipped FOB Point of Shipment with full freight allowed on single orders with a net price value of \$7000.00 or more, except surface coils and parts, within the continental USA (excluding Alaska and Hawaii). Routing and selection of carrier will be made by Seller. For special routing requests, Buyer will bear all additional costs for such routing. Equipment is shipped at Buyer's risk. Buyer should examine equipment before signing transportation receipt. If equipment is received damaged or if quantity received does not match freight bill, the Buyer should require agent to so indicate on freight bill and immediately file a damage/missing claim. Our liability ceases upon delivery of equipment in good order to the freight carrier.
5. **Taxes:** Any sales, use, excise, or similar tax payable by Seller which is or may be imposed by any taxing authority upon manufacture, sale or delivery of goods covered by any order or any increase in rate of any such tax now in force, shall be added to the sales price; if not collected at the time of payment of sales price, Buyer will hold Seller harmless.
6. **Limited Warranty:** Seller warrants against defect in materials and workmanship in products which it manufactures for (1) year from date of installation or up to (18) eighteen months from the date of shipment, whichever event occurs first, when properly installed and operated under normal use. This guarantee does not include any labor or other charges made outside of the Seller's factory for replacement or repair of defective parts unless specifically stated in the body of the Seller's invoice. On parts not manufactured by Seller, such as motors, controls, valves and compressors we extend to the Buyer the same warranties made to us by the manufacturer. Seller's only liability under this warranty or otherwise shall be the repair or replacement (at Seller's option) of non-conforming goods or parts. Seller assumes no liability for incidental or consequential damages such as injury to person or property, or lost profits.
7. **THIS GUARANTEE SUPERSEDES AND IS IN LIEU OF ANY AND ALL OTHER WARRANTIES BY LAW OR CUSTOM, EITHER EXPRESSED OR IMPLIED INCLUDING, BUT NOT LIMITED BY THIS ENUMERATION, ANY GUARANTEE AS TO QUALITY OR FITNESS FOR ANY PARTICULAR PURPOSE, EXCEPT AS SET FORTH ABOVE. NO PERSON, AGENT, OR DEALER IS AUTHORIZED TO GIVE ANY WARRANTIES ON BEHALF OF SELLER NOR TO ASSUME FOR SELLER ANY OTHER LIABILITY IN CONNECTION WITH ANY OF THE SELLER'S PRODUCTS.**
8. **Delivery:** Seller shall not be liable for any delays in or failure of delivery due to acts of God or public authority, labor disputes, accidents, fires, floods, extreme weather conditions, failure of and delays by carriers, shortages of material, delays of a supplier, and any other cause beyond Seller's control. In no event shall Seller be liable for consequential or special damages arising out of a delay in or failure of delivery. Failure to meet estimated ship dates will not be considered sufficient cause of cancellation of orders.
9. **Cancellations and Returned Goods:** Permission to return any part or product must be obtained from Seller and may be subject to a restocking charge. Credits for new material accepted for return will be at the original sales price or current market price, whichever is lower, less handling and restocking charges. Buyer must prepay all transportation charges. Any costs for putting material in condition for resale will be charged to the Buyer. Shipment of material returned without factory authorization or not properly tagged with a Return Material Authorization Number or not freight prepaid cannot be received by Seller. Obsolete products or material made to special order are not returnable.
10. **Catalog Materials and Drawings:** Seller is not responsible for typographical errors or other errors of omission in Seller's catalogs or drawings.
11. **Late Charge Provision:** Buyer agrees to pay a late charge of 1-1/2% per month (18% per year) for any invoice or bill not paid within (30) thirty days of the date of the billing invoice.
12. **Choices of law, Disputes:** This agreement and the performance of the parties hereunder shall be construed in accordance with and governed by the laws of the State of Georgia and shall be deemed made in the state. Buyer irrevocably consents to the exclusive jurisdiction of the courts of the State of Georgia, on all matters arising out of or relating to this sale and Buyer further irrevocably consents to service of process by certified mail, return receipt requested, at Buyer's address set forth in the order acknowledgement.

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