



BULLETIN

**P-842**

SUPERSEDES  
ALL PRICES PRIOR  
TO MAY 2016

Evaporators

May 2016

**Please Note:** System list price sheet **P858A has been discontinued.**

Add appropriate expansion valve price(s) from page 6 of this price sheet when unit coolers are for use with KramerSaver or Thermobank condensing units. Liquid line solenoid and mechanical room T-Stat prices (shipped loose) are already included in the list price for KramerSaver or Thermobank condensing units. All system accessories and optional component prices must be added when evaporators are used with C Style condensing units.

## **LIST PRICES - EVAPORATORS**

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 \$7000 OR MORE, WITHIN THE CONTINENTAL USA (EXCLUDING ALASKA AND HAWAII). ANY ADDITIONAL COSTS INCURRED FOR SPECIAL ROUTING AND HANDLING REQUESTS WILL BE INVOICED (See page 6).

SEE PAGE 12 FOR "CONDITIONS OF SALE AND WARRANTY"

### **INDEX**

<b>PAGE</b>	<b>DESCRIPTION</b>
2	AIR DEFROST EVAPORATORS - LOW PROFILE
3	AIR DEFROST EVAPORATORS - MEDIUM SILHOUETTE
4	AIR DEFROST EVAPORATORS - HEIGHT SAVER, COOLMASTER
5	ELECTRIC DEFROST EVAPORATORS - LOW PROFILE, MEDIUM SILHOUETTE
6	ELECTRIC DEFROST EVAPORATORS - HEIGHT SAVER
6	OPTIONS - TXV's, Liquid Line Solenoids, Room T-Stat, Surveillant Controller, Freight Surcharges
7	ELECTRIC DEFROST EVAPORATORS - COOLMASTER
8	HOT GAS DEFROST EVAPORATORS - REVERSE CYCLE
9	HOT GAS DEFROST EVAPORATORS - THERMOBANK - COOLMASTER
10	HOT GAS DEFROST EVAPORATORS - THERMOBANK - LOW PROFILE, MEDIUM SILHOUETTE
11	APEX SELF-CONTAINED UNITS
12	PRINCIPAL TERMS AND CONDITIONS OF SALE



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# AIR DEFROST EVAPORATORS

## KA SERIES LOW PROFILE

Model Number	BTU/HR @ 25°F Suction Temp. 10° TD	Single Speed EC Motor†		Dual Speed EC Motor†		Single Speed PSC Motors			Baked Epoxy Coil Coating*	Insulated Drain Pan‡	Heat. Exchanger (Shipped loose) selected @10° T.D./R404A		Approx Ship WT. (LBS)
		Configurable (No accessories mounted)		Configurable (No accessories mounted)		Configurable (No accessories mounted)					MODEL	LIST	
		115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1					

### 8 FPI

KA18-41C	4,100	\$1,628	\$1,730	\$2,061	\$2,163	\$1,283	\$1,385	\$1,560	\$418	\$1,230	KHX-25	\$150	33
KA18-53C	5,300	1,723	1,745	2,156	2,178	1,378	1,399	1,574	433	1,230	KHX-25	150	34
KA18-66C	6,600	1,958	2,081	2,391	2,514	1,613	1,735	1,910	463	1,230	KHX-25	150	36
KA28-76C	7,600	2,485	2,627	3,351	3,493	1,798	1,940	2,290	523	1,619	KHX-50	176	48
KA28-97C	9,700	2,809	2,843	3,675	3,709	2,123	2,156	2,506	564	1,619	KHX-50	176	51
KA28-106C	10,600	2,975	3,012	3,841	3,878	2,289	2,325	2,675	626	1,619	KHX-50	176	58
KA28-122C	12,200	3,161	3,195	4,027	4,061	2,474	2,508	2,858	648	1,619	KHX-50	176	60
KA28-134C	13,400	3,357	3,395	4,223	4,261	2,670	2,708	3,058	684	1,619	KHX-50	176	63
KA38-160C	16,000	4,304	4,357	5,603	5,656	3,267	3,320	3,845	964	1,724	KHX-75	243	79
KA38-195C	19,500	4,812	4,864	6,111	6,163	3,776	3,827	4,352	999	1,724	KHX-75	243	84
KA48-212C	21,200	5,630	5,967	7,362	7,699	4,238	4,575	5,275	1,061	1,933	KHX-75	243	127
KA48-264C	26,400	6,154	6,518	7,886	8,250	4,727	5,104	5,804	1,111	1,933	KHX-100	311	151
KA58-275C	27,500	6,930	7,346	9,095	9,511	5,216	5,632	6,507	1,372	2,142	KHX-100	311	197
KA68-318C	31,800	8,043	8,518	10,641	11,116	5,964	6,439	7,489	1,701	2,352	KHX-150	359	243
KA68-390C	39,000	9,056	9,494	11,654	12,092	6,976	7,414	8,464	1,763	2,352	KHX-150	359	267

### 6 FPI

KA16-39C	3,900	\$1,575	\$1,674	\$2,008	\$2,107	\$1,245	\$1,345	\$1,520	381	1,230	KHX-25	\$150	41
KA16-48C	4,800	1,667	1,688	2,100	2,121	1,338	1,359	1,534	391	1,230	KHX-25	150	44
KA16-58C	5,800	1,896	2,015	2,329	2,448	1,566	1,685	1,860	419	1,230	KHX-25	150	47
KA26-70C	7,000	2,412	2,551	3,278	3,417	1,752	1,891	2,241	570	1,619	KHX-50	176	54
KA26-87C	8,700	2,728	2,761	3,594	3,627	2,069	2,102	2,452	590	1,619	KHX-50	176	55
KA26-115C	11,500	3,071	3,104	3,937	3,970	2,411	2,445	2,795	620	1,619	KHX-50	176	62
KA36-145C	14,500	3,841	3,880	5,140	5,179	2,852	2,891	3,416	878	1,724	KHX-75	243	77
KA36-170C	17,000	4,655	4,705	5,954	6,004	3,666	3,716	4,241	902	1,724	KHX-75	243	82
KA46-192C	19,200	5,414	5,739	7,146	7,471	4,094	4,420	5,120	964	1,933	KHX-75	243	124
KA46-230C	23,000	5,938	6,290	7,670	8,022	4,583	4,949	5,649	1,011	1,933	KHX-100	311	147
KA56-245C	24,500	6,737	7,143	8,902	9,308	5,088	5,494	6,369	1,249	2,142	KHX-100	311	195
KA66-295C	29,500	7,758	8,218	10,356	10,816	5,779	6,239	7,289	1,546	2,352	KHX-150	359	238
KA66-345C	34,500	8,739	9,163	11,337	11,761	6,760	7,185	8,235	1,603	2,352	KHX-150	359	262

EC = Electronically Commutated Motors PSC = Permanent Split Capacitor

† EC motors are not available in 460V or 575V. Use EC motors for 50HZ operation.

Units with dual speed motors include a relay to control motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is factory mounted on the unit cooler.

\* For units requiring the insulated drain pan option, specify revision code B model: i.e. KA18-41B.

See page 6 for expansion valve, liquid solenoid and t-stat pricing.

\$306 List adder for adjustable termination/fan delay control in lieu of fixed.

(Adjustable defrost control is only available for revision code B models).

\$125 List adder per fan for epoxy high throw fan guards or epoxy coated wire fan guards.

(Wire guards are only available for revision code B models).

\*Baked epoxy coating covers the coil only. Contact Application Engineering for additional cost and lead time for coated housing. Electro Fin and Heresite are also available coating options.

‡ Insulated drain pans are only available for units with vintage B revision code and are not available for vintage C units. Specify vintage B unit if this option is required.

Specify voltage and motor type when ordering. See KA Series brochure for nomenclature, voltage code and motor codes.

# AIR DEFROST EVAPORATORS

## MEDIUM SILHOUETTE

Model Number	BTU/HR @ 10° TD	Electronically Commutated Motors†								PSC Motors			
		Single Speed		Dual Speed			Variable Speed			Single Speed			
		115V/1	230V/1	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1	575V/1

### 4 FPI

MSA-126	12,600	\$4,635	\$4,714	\$5,047	\$5,190	\$5,564	\$5,207	\$5,312	\$6,041	\$4,054	\$4,145	\$4,293	\$4,379
MSA-169	16,900	5,620	5,719	6,032	6,195	6,569	6,192	6,317	7,026	4,537	4,640	4,779	4,875
MSA-224	22,400	6,923	7,068	7,541	7,782	8,343	7,781	7,965	9,032	5,651	5,807	6,386	6,514
MSA-287	28,700	8,544	8,868	9,162	9,582	10,143	9,402	9,765	10,653	7,337	7,685	8,084	8,245
MSA-340	34,000	10,803	11,040	11,311	11,574	11,890	11,633	11,930	12,305	9,035	9,262	9,551	9,743
MSA-395	39,500	12,205	12,806	12,713	13,340	13,656	13,035	13,696	13,707	10,578	11,167	11,714	11,950
MSA-465	46,500	15,068	15,245	15,830	16,046	16,520	16,313	16,580	17,321	12,462	12,632	13,382	13,650
MSA-585	58,500	15,814	16,315	16,576	17,116	17,590	17,059	17,650	18,067	13,458	13,948	14,863	15,161

### 6 FPI

CSA-145	14,500	\$4,825	\$4,888	\$5,237	\$5,364	\$5,738	\$5,397	\$5,486	\$6,231	\$4,206	\$4,278	\$4,455	\$4,544
CSA-191	19,100	5,840	5,852	6,252	6,328	6,702	6,412	6,450	7,246	4,683	4,695	4,899	4,997
CSA-240	24,000	7,197	7,354	7,815	8,068	8,629	8,055	8,251	9,306	5,894	6,063	6,399	6,527
CSA-305	30,500	8,864	9,102	9,482	9,816	10,377	9,722	9,999	10,973	7,586	7,840	8,102	8,265
CSA-370	37,000	11,250	11,563	11,758	12,097	12,413	12,080	12,453	12,752	9,347	9,644	9,973	10,172
CSA-415	41,500	12,732	12,939	13,240	13,473	13,789	13,562	13,829	14,234	10,925	11,134	11,372	11,600
CSA-490	49,000	15,641	15,971	16,403	16,772	17,246	16,886	17,306	17,894	12,996	13,314	13,890	14,169
CSA-620	62,000	16,423	16,687	17,185	17,488	17,962	17,668	18,022	18,676	13,908	14,164	14,913	15,211

### 8 FPI

DSA-151	15,100	\$4,991	\$5,066	\$5,403	\$5,542	\$5,916	\$5,563	\$5,664	\$6,060	\$4,375	\$4,460	\$4,633	\$4,726
DSA-210	21,000	6,020	6,094	6,432	6,570	6,944	6,592	6,692	7,088	4,969	5,045	5,115	5,218
DSA-260	26,000	7,451	7,566	8,069	8,280	8,841	8,309	8,463	9,057	6,193	6,318	6,643	6,777
DSA-320	32,000	9,114	9,478	9,732	10,192	10,753	9,972	10,375	10,969	7,989	8,386	8,473	8,642
DSA-410	41,000	11,592	12,053	12,100	12,587	12,903	12,422	12,943	13,047	9,713	10,153	10,363	10,570
DSA-450	45,000	13,134	13,436	13,642	13,970	14,286	13,964	14,326	14,636	11,207	11,496	11,844	12,082
DSA-540	54,000	16,178	16,733	16,940	17,534	18,008	17,423	18,068	18,431	13,482	14,015	14,304	14,590
DSA-690	69,000	16,944	17,300	17,706	18,101	18,575	18,189	18,635	19,197	14,698	15,049	15,551	15,863

EC = Electronically Commutated Motors PSC = Permanent Split Capacitor

Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit.

Variable speed motors require a field supplied controller.

\*\* These 460V/1 models use 1/3 HP motors for all units.

Contact Application Engineering for coated housing prices.

† EC motors are not available in 575V.

\$306 List adder for adjustable termination/fan delay control in lieu of fixed.

	MODEL NUMBER	Insulated Drain Pan	HEAT. EXCHANGER @ 10° T.D./R404A		APPROX SHIP WT. (LBS)
			MODEL	LIST	
4 FPI	MSA-126	\$1,787	KHX-150	\$359	115
	MSA-169	1,787	KHX-150	359	130
	MSA-224	2,004	KHX-150	359	280
	MSA-287	2,004	KHX-250	497	310
	MSA-340	1,787	KHX-250	497	345
	MSA-395	1,787	KHX-250	497	375
	MSA-465	2,004	KHX-250	497	400
MSA-585	2,004	KHX-350	509	505	
6 FPI	CSA-145	\$1,787	KHX-150	\$359	120
	CSA-191	1,787	KHX-150	359	140
	CSA-240	2,004	KHX-150	359	290
	CSA-305	2,004	KHX-250	497	320
	CSA-370	1,787	KHX-250	497	360
	CSA-415	2,004	KHX-250	497	395
	CSA-490	2,004	KHX-250	497	415
CSA-620	2,004	KHX-350	509	520	
8 FPI	DSA-151	\$1,787	KHX-150	\$359	125
	DSA-210	1,787	KHX-150	359	145
	DSA-260	2,004	KHX-250	497	295
	DSA-320	2,004	KHX-250	497	330
	DSA-410	1,787	KHX-250	497	370
	DSA-450	1,787	KHX-250	497	390
	DSA-540	2,004	KHX-350	509	430
DSA-690	2,004	KHX-350	509	540	

# AIR DEFROST EVAPORATORS

## HEIGHT SAVER

Model Number	BTU/HR @ 10° TD	Single Speed EC Motors		Single Speed PSC Motors	Insulated Drain Pan	Approx. Ship WT. (LBS)
		115V/1	230V/1	115V PSC <sup>1</sup>		

### 8 FPI

HSA-74	7,400	\$2,855	\$3,144	\$2,052	\$4,034	95
HSA-90	9,000	3,618	3,901	2,503	4,034	100
HSA-100	10,000	3,991	4,455	2,799	4,034	105
HSA-110	11,000	4,218	4,625	3,126	4,790	125
HSA-130	13,000	4,364	5,397	3,465	4,790	130
HSA-156	15,600	5,411	5,912	3,691	4,790	135
HSA-164	16,400	5,873	6,443	4,153	5,380	150
HSA-212	21,200	6,867	7,476	4,585	4,790	155
HSA-240	24,000	7,611	9,627	5,147	5,380	165
HSA-250	25,000	9,130	9,921	6,262	6,483	185

### 6 FPI

HSA-65	6,500	\$2,799	\$2,911	\$2,012	\$4,034	90
HSA-85	8,500	3,548	3,612	2,454	4,034	95
HSA-95	9,500	3,913	4,125	2,744	4,034	100
HSA-103	10,300	4,135	4,282	3,065	4,790	120
HSA-123	12,300	4,837	4,997	3,397	4,790	125
HSA-142	14,200	5,305	5,474	3,619	4,790	130
HSA-159	15,900	5,758	5,966	4,072	5,380	145
HSA-193	19,300	6,732	6,922	4,495	4,790	150
HSA-218	21,800	7,468	7,710	5,046	5,380	160
HSA-233	23,300	8,951	9,186	6,139	6,483	180

1. PSC motors are no longer available for models with 230V/1 requirements. Use models with EC motors for 230V/1 applications.

EC motors are not Available in 460V/1 for these models. Only single speed EC motors are available for these models.

All units are provided with sweat refrigerant connections. 230V/1/60 models also valid for 208V/1/60

EC = Electronically Commutated Motors PSC = Permanent Split Capacitor

**460V motors are not available for HSA models.**

Use EC motors for 50HZ operation.

Specify voltage and motor type when ordering. See HSA Series brochure for nomenclature, voltage code and motor codes.

## COOLMASTER

MODEL NUMBER	BTU/HR @ 10° TD	LIST PRICE 208-230 or 460/3	HEAT EXCHANGER		Approx. Ship WT. (LBS)
			MODEL	PRICE	

### 4 FPI

CM-450D	45,500	\$11,250	KHX-250	\$497	500
CM-620D	62,700	13,146	KHX-250	497	600
CM-850D	85,500	17,355	KHX-350	509	900
CM-1100D	107,900	20,058	KHX-500	808	1000
CM-1250D	123,500	26,821	KHX-500	808	1150
CM-1350D	136,600	28,236	KHX-500	808	1500
CM-1600D	159,900	30,803	KHX-1500	2,218	1700
CM-1800D	182,200	33,004	KHX-1500	2,374	2000
CM-2100D	212,500	40,391	KHX-2000	2,374	2200

### 6 FPI

CCM-520D	51,400	\$11,718	KHX-250	\$497	510
CCM-710D	70,825	13,837	KHX-350	497	615
CCM-970D	97,125	18,078	KHX-350	509	920
CCM-1220D	122,250	20,893	KHX-500	808	1,025
CCM-1390D	139,400	28,120	KHX-500	808	1,180
CCM-1550D	154,500	29,722	KHX-1500	2,218	1,530
CCM-1810D	180,450	32,086	KHX-1500	2,218	1,740
CCM-2060D	205,650	34,379	KHX-2000	2,374	2,600
CCM-2400D	239,900	42,073	KHX-2000	2,374	2,700

### 8 FPI

DCM-560D	55,975	\$11,836	KHX-250	\$497	535
DCM-770D	77,075	14,114	KHX-350	509	640
DCM-1060D	105,750	20,609	KHX-350	509	950
DCM-1330D	133,050	23,819	KHX-500	808	1,055
DCM-1520D	151,750	28,964	KHX-500	808	1,225
DCM-1680D	167,950	30,317	KHX-1500	2,218	1,580
DCM-1960D	196,450	34,653	KHX-1500	2,218	1,800
DCM-2240D	223,850	37,646	KHX-2000	2,374	2,650
DCM-2620D	261,500	44,177	KHX-2000	2,374	2,800

# ELECTRIC DEFROST EVAPORATORS

## KE SERIES LOW PROFILE

Model Number	BTU/HR @ -10°F Suction Temp. 10° TD	Single Speed EC motors†		Dual Speed EC Motors†		Single Speed PSC motors			Insulated Drain Pan†	Heat. Exchanger (Shipped loose) selected @10° T.D./R404A		Approx Ship WT. (LBS)
		Configurable (No accessories included)		Configurable (No accessories included)		Configurable (No accessories included)				MODEL	LIST	
		230/1 (A)	230/3 (B)	230/1 (A)	230/3 (B)	230/1 (A)	230/3 (B)	460V/1				

### 6 FPI

KE16-36C	3,700	\$2,269	—	\$2,702	—	\$1,939	—	N/A	\$1,230	KHX-25	\$150	41
KE16-41C	4,300	2,380	—	2,813	—	2,050	—	N/A	1,230	KHX-25	150	44
KE16-46C	4,800	2,638	—	3,071	—	2,308	—	N/A	1,230	KHX-25	150	47
KE26-60C	6,200	3,414	—	4,280	—	2,754	—	N/A	1,619	KHX-25	150	54
KE26-75C	7,800	3,551	—	4,417	—	2,891	—	N/A	1,619	KHX-50	176	55
KE26-92C	9,600	3,768	—	4,634	—	3,108	—	N/A	1,619	KHX-50	176	62
KE36-120C	12,500	4,875	—	6,174	—	3,886	—	N/A	1,724	KHX-50	176	78
KE36-140C	14,600	5,530	—	6,829	—	4,541	—	N/A	1,724	KHX-75	243	85
KE46-164C	17,100	6,517	—	8,249	—	5,178	—	N/A	1,933	KHX-75	243	128
KE46-185C	19,200	—	\$7,179	—	\$8,911	—	\$5,860	N/A	1,933	KHX-75	243	152
KE56-210C	21,800	—	8,346	—	10,511	—	6,598	N/A	2,142	KHX-75	243	195
KE66-245C	25,500	—	9,420	—	12,018	—	7,441	N/A	2,352	KHX-100	311	238
KE66-280C	29,100	—	10,565	—	13,163	—	8,586	N/A	2,352	KHX-100	311	262

### 4 FPI

KE14-37C	3,800	\$2,192	—	\$2,625	—	\$1,862	—	2,037	\$1,230	KHX-25	\$150	45
KE24-72C	7,500	3,693	—	4,559	—	3,033	—	3,383	1,619	KHX-50	176	52
KE24-85C	8,800	3,961	—	4,827	—	3,213	—	3,563	1,619	KHX-50	176	58
KE34-105C	10,900	4,834	—	6,133	—	3,844	—	4,369	1,724	KHX-50	176	76
KE44-140C	14,600	6,393	—	8,125	—	5,074	—	5,774	1,933	KHX-75	243	139
KE54-180C	18,700	—	\$8,077	—	\$10,242	—	\$6,429	\$7,304	2,142	KHX-75	243	186
KE64-215C	22,400	—	9,235	—	11,833	—	7,256	8,306	2,352	KHX-100	311	249

EC = Electronically Commutated Motors PSC = Permanent Split Capacitor

(A) 230/1 Volt motors and heaters.

(B) 230/1 Volt motors and 230/3 Volt heaters.

Use EC motors for 50HZ operation.

† EC motors are not available in 460V or 575V.

All models are supplied with a non-adjustable defrost termination / fan delay thermostat mounted and wired.

\$306 List adder for adjustable termination/fan delay control in lieu of fixed.

(Adjustable defrost control is only available for revision code B models).

Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit.

† Insulated drain pans are only available for units with vintage B revision code and are not available for vintage C units. Specify vintage B unit if this option is required.

Specify voltage and motor type when ordering. See the KE Series brochure for nomenclature, voltage and motor codes.

## MEDIUM SILHOUETTE

MODEL NUMBER	BTU/HR @ 10° TD	Electronically Commutated Motors†					Single Speed PSC Motors			Insulated Drain Pan	Heat. Exchanger (Shipped loose)		APPROX. SHIP WT. (LBS)
		Single Speed	Dual Speed		Variable Speed		230/1 (A)	460/1 (B)	575V/1		MODEL	LIST	
		230/1 (A)	230/1 (A)	460V/1 (B) **	230/1 (A)	460V/1 (B) **							

### 4 FPI

MSE-105	10,500	\$5,043	\$5,519	\$5,893	\$5,641	\$6,037	\$4,322	\$4,579	\$4,672	\$1,787	KHX 150	\$359	120
MSE-140	14,000	6,508	6,984	7,358	7,106	7,502	4,894	5,066	5,168	1,787	KHX 150	359	135
MSE-175	17,500	7,406	8,120	8,681	8,303	8,897	6,146	6,624	6,756	2,004	KHX 150	359	285
MSE-230	23,000	10,180	10,714	11,030	11,070	11,174	8,527	9,209	9,393	1,787	KHX 250	497	315
MSE-325	32,500	14,264	14,798	15,114	15,154	15,258	12,075	12,803	13,059	1,787	KHX 350	509	350
MSE-390	39,000	15,082	15,883	16,357	16,417	16,573	13,230	14,121	14,404	2,004	KHX 350	509	425
MSE-510	51,000	17,172	17,973	18,447	18,507	18,663	16,082	17,285	17,632	2,004	KHX 500	808	530

### 6 FPI

CSE-130	13,000	\$5,398	\$5,874	\$6,248	\$5,996	\$6,392	\$4,415	\$4,636	\$4,729	1,787	KHX 150	\$359	125
CSE-150	15,000	5,664	6,140	6,514	6,262	6,658	5,020	5,254	5,359	1,787	KHX 150	359	140
CSE-185	18,500	8,491	9,205	9,766	9,388	9,982	6,750	7,375	7,523	2,004	KHX 150	359	295
CSE-270	27,000	10,604	11,138	11,454	11,494	11,598	9,491	10,007	10,207	1,787	KHX 250	497	320
CSE-320	32,000	11,989	12,523	12,839	12,879	12,983	10,280	11,008	11,229	1,787	KHX 350	509	365
CSE-385	38,500	14,964	15,765	16,239	16,299	16,455	12,625	13,229	13,494	2,004	KHX 350	509	450
CSE-460	46,000	15,544	16,345	16,819	16,879	17,035	13,842	14,825	15,121	2,004	KHX 500	808	490
CSE-520	52,000	17,627	18,428	18,902	18,962	19,118	15,779	16,578	16,910	2,004	KHX 500	808	535

(A) 230/1 Volt motors and 230/1 or 230/3 Volt heaters.

(B) 460/1 Volt motors and 460/1 or 460/3 Volt heaters.

Adjustable DTFD List price add per unit - \$306.00

Air Straightener List price add per fan - \$125.00

EC = Electronically Commutated Motors PSC = Permanent Split Capacitor

Use EC motors for 50HZ operation.

1. Electric defrost models include fixed defrost termination and fan delay controls.

2. Standard motor wiring is single phase.

3. Standard heater wiring is 3 phase.

4. \*\* These 460V/1 models use 1/3 HP motors for all units.

† EC motors are not available for 575V applications.

Specify voltage and motor type when ordering. See MSE and CSE Series brochure for nomenclature, voltage code and motor codes.

# ELECTRIC DEFROST EVAPORATORS

## HEIGHT SAVER

MODEL NUMBER	BTU/HR @ 10° TD	Single Speed EC Motor <sup>1</sup>	Insulated Drain Pan	APPROX. SHIP WT. (LBS)
		230/1 (A)		
<b>6 FPI</b>				
HSE-55	5,500	\$4,527	\$4,034	95
HSE-63	6,300	4,675	4,034	100
HSE-71	7,100	4,665	4,034	105
HSE-79	7,900	5,371	4,790	125
HSE-91	9,100	6,009	4,790	130
HSE-103	10,300	6,280	4,790	135
HSE-125	12,500	6,525	5,380	150
HSE-143	14,300	7,526	4,790	155
HSE-163	16,300	8,431	5,380	165
HSE-219	21,900	10,366	6,483	185

MODEL NUMBER	BTU/HR @ 10° TD	Single Speed EC Motor <sup>1</sup>	Insulated Drain Pan	APPROX. SHIP WT. (LBS)
		230/1 (A)		
<b>4 FPI</b>				
HSE-50	5,000	\$3,270	\$4,034	90
HSE-60	6,000	4,544	4,034	95
HSE-66	6,600	4,682	4,034	100
HSE-74	7,400	5,362	4,790	120
HSE-86	8,600	5,978	4,790	125
HSE-94	9,400	5,993	4,790	130
HSE-116	11,600	6,255	5,380	145
HSE-130	13,000	6,492	4,790	150
HSE-144	14,400	7,517	5,380	160
HSE-174	17,400	8,444	6,483	180

**(A) 230/1 Volt motors and heaters.**

All models are supplied with a non-adjustable defrost termination and fan delay thermostat mounted and wired.

**Adjustable DTFD list add per unit. \$306.00** All units are provided with sweat refrigerant connections.

EC = Electronically Commutated Motors

<sup>1</sup> 460V motors are not available for HSE models. 230V/1/60 models also valid for 208V/1/60

Use EC motors for 50HZ operation. Only single speed EC motors are available for these models.

## OPTIONAL SYSTEM COMPONENTS

### HEAT EXCHANGERS - Shipped Loose

Model Number	PART NUMBER	LIST PRICE	CONNECTIONS		APPROX. LENGTH
			LIQUID	SUCTION	
KX-25	105065001	\$150	1/4	1/2	12
KX-50	105065003	176	3/8	5/8	13
KX-75	105065004	243	3/8	7/8	14
KX-100	105065005	311	3/8	1-1/8	14
KX-150	105065006	359	1/2	1-1/8	14
KX-250	105065007	497	5/8	1-3/8	14
KX-350	105065008	509	5/8	1-5/8	16
KX-500	105065009	808	7/8	2-1/8	17
LHX-15	105065010	2,218	7/8	2-1/8	30
LHX-20	105065011	2,374	1-1/8	2-1/8	30
LHX-25	105065012	2,542	1-1/8	2-5/8	38

### EXPANSION VALVES

Balance Port		List	Elect. Expansion Valves		List
1/4 - 3	LOOSE	\$320	1/2 to 15	LOOSE	\$980
TONS	INSTALLED	362	TONS	INSTALLED	1,296
4 - 9	LOOSE	409	16 to 25	LOOSE	1,408
TONS	INSTALLED	638	TONS	INSTALLED	1,724
10 - 30	LOOSE	712	1. EEV prices include cable. 2. EEV prices DO NOT include controller.		
TONS	INSTALLED	1054			

### STANDARD

1/4 - 3	LOOSE	\$315
TONS	INSTALLED	299

### AIR STRAIGHTENERS

SIZE	List (Per Fan)
LP MODELS (High Throw epoxy fan guard)	\$125
MEDIUM PROFILE	\$324
LARGE PRODUCT COOLERS	\$434

### Surveillant Evaporator Defrost Controller

DESCRIPTION	PART NUMBER	LIST EACH
Factory Installed - For KA models - 115V (Air Defrost Only)	08219529	\$5,294
Factory Installed - For KA/KE models - 230V (Air or Electric Defrost)	08219531	
Factory Installed - For HSA models - 115V (Air Defrost Only)	08219530	
Factory Installed - For HSA/HSE models - 230V (Air or Electric Defrost)	08219532	
Smartgate Router (Shipped Loose)	08219541	\$2,778

### ROOM THERMOSTATS

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	371

### LIQUID LINE SOLENOID VALVE

HORSEPOWER RANGE	LOOSE	MTD
1/2 thru 3	\$270	\$291
4 thru 8 HP	302	337
9 thru 10 HP	437	558
12 thru 15 HP	540	697
22 HP	689	799

## FREIGHT SURCHARGES

The following freight surcharges will be applied to orders when applicable. For delivery and post delivery issues, the customer will be notified and a second invoice will be generated.

BASIC LTL FREIGHT SURCHARGES	NET †
Delivery Notification / Call before delivery	\$68
Lift Gate Service	213
Saturday Delivery Request	484
*Failed/Refused delivery attempt (minimum)	98
*Failed/Refused delivery attempt (Maximum)	1,214
Re-Consignment fee	91
Storage (Per 100 LBS for each calendar day)	4.62

BASIC CONTRACT HAUL SURCHARGES	NET†
Cancelled truck not used	\$2,160
Reconsignment fee	775
Reconsignment cost per mile ( \$1505 Minimum)	3.23
Delay in unloading (4 hours or more past an appointment)	1,505

† Net prices are not to be discounted.

\* Refused Delivery fee will be calculated @ 11.6 cents per 100 LBS, subject to Minimum and Maximum charges shown above (per incident).

† Net prices are not to be discounted.

# ELECTRIC DEFROST EVAPORATORS

## COOLMASTER

MODEL NUMBER	BTU/HR @ 10° TD	LIST PRICE 208-230/ 460/3	HEAT EXCHANGER		APPROX. SHIP WT. (LBS)
			MODEL	PRICE	

### 4 FPI - Standard Fan

KED-400D	40,000	\$13,159	KHX-350	\$509	450
KED-550D	55,000	16,924	KHX-500	808	520
KED-750D	75,000	24,716	KHX-1500	2,218	790
KED-950D	95,000	28,249	KHX-2000	2,374	890
KED-1200D	120,000	32,419	KHX-2000	2,374	1,410
KED-1600D	160,000	45,546	KHX-3000	2,804	1,810

### 4 FPI - Pressure Propeller

KED-400PP	40,000	\$15,234	KHX-350	\$509	490
KED-550PP	55,000	19,008	KHX-500	808	550
KED-750PP	75,000	26,802	KHX-1500	2,218	810
KED-950PP	95,000	30,470	KHX-2000	2,374	900
KED-1200PP	120,000	35,545	KHX-2000	2,374	1,430
KED-1600PP	160,000	49,714	KHX-3000	2,804	1,900

### 6 FPI - Standard Fan

CED-450D	45,200	\$13,565	KHX-350	\$509	470
CED-620D	62,200	17,721	KHX-500	808	540
CED-850D	84,800	25,745	KHX-1500	2,218	815
CED-1070D	107,400	29,122	KHX-2000	2,374	920
CED-1360D	135,600	33,594	KHX-2500	2,542	1,460
CED-1800D	180,800	46,857	KHX-3000	2,804	2,170

### 6 FPI - Pressure Propeller

CED-450PP	45,200	\$15,649	KHX-350	\$509	520
CED-620PP	62,200	19,805	KHX-500	808	570
CED-850PP	84,800	27,829	KHX-1500	2,218	835
CED-1070PP	107,400	31,206	KHX-2000	2,374	930
CED-1360PP	135,600	36,720	KHX-2500	2,542	1,480
CED-1800PP	180,800	51,025	KHX-3000	2,804	2,260

All models have 3 phase motors and heaters.

Models "KED-1200" and larger and models "CED-1360" and larger are equipped with fused defrost heaters.

All models are supplied with an adjustable defrost termination / fan delay thermostat mounted and wired.

Air Straighteners list adder per fan.- **\$434**

Models with Pressure Propeller fans are for use in Blast Freezers with air pressure drop up to 0.5" static pressure.

Models with PP fans are not for use above +25°F room temperature.

# HOT GAS DEFROST EVAPORATORS - REVERSE CYCLE

## LOW PROFILE - HOT GAS REVERSE CYCLE/ 2 PIPE DEFROST MODELS

Model Number	BTU/HR @ 10° TD	Single Speed EC Motors†		Dual Speed EC Motors†		Single Speed PSC Motors†			Insulated Drain Pan	Heat Exchanger		APPROX. SHIP WT. (LBS)
		115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1		Model	LIST	
<b>6 FPI</b>												
LPG-35R	3,700	\$2,384	\$2,480	\$2,622	\$2,718	\$2,064	\$2,153	\$2,328	\$1,230	KHX-25	\$176	41
LPG-41R	4,300	2,543	2,648	2,781	2,886	2,198	2,296	2,471	1,230	KHX-25	176	44
LPG-46R	4,800	2,836	2,955	3,074	3,193	2,511	2,625	2,800	1,230	KHX-25	176	47
LPG-63R	6,200	3,477	3,613	3,953	4,089	2,829	2,952	3,302	1,619	KHX-25	243	54
LPG-71R	7,800	3,816	4,128	4,292	4,604	3,141	3,361	3,711	1,619	KHX-50	243	55
LPG-92R	9,600	4,194	4,715	4,670	5,191	3,528	3,788	4,138	1,619	KHX-50	311	62
LPG-120R	12,500	5,019	5,204	5,733	5,918	4,042	4,312	4,837	1,724	KHX-50	359	78
LPG-138R	13,800	5,724	5,917	6,438	6,631	4,793	5,063	5,588	1,724	KHX-75	359	85
LPG-162R	16,200	6,341	6,806	7,293	7,758	5,030	5,381	6,081	1,933	KHX-75	359	128
LPG-184R	18,400	7,028	7,685	7,980	8,637	5,771	6,157	6,857	1,933	KHX-75	359	152
LPG-220R	22,000	7,521	8,240	8,711	9,430	6,008	6,486	7,361	2,142	KHX-75	497	195
LPG-240R	24,000	8,857	9,769	10,285	11,197	6,902	7,558	8,608	2,352	KHX-100	497	238
LPG-265R	26,500	10,083	10,811	11,511	12,239	8,176	8,961	10,011	2,352	KHX-100	497	262

### 4 FPI

LPG-38R	3,800	\$2,672	\$2,728	\$2,910	\$2,966	\$2,137	\$2,287	\$2,462	1,230	KHX-25	\$176	42
LPG-70R	7,000	4,444	4,568	4,920	5,044	2,994	3,095	3,445	1,619	KHX-50	176	49
LPG-86R	8,600	4,673	4,851	5,149	5,327	3,254	3,401	3,751	1,619	KHX-50	176	55
LPG-106R	10,600	5,565	5,892	6,279	6,606	3,552	3,977	4,502	1,724	KHX-50	311	79
LPG-142R	14,200	7,330	7,736	8,282	8,688	4,664	5,197	5,897	1,933	KHX-75	359	149
LPG-182R	18,200	8,897	9,422	10,087	10,612	5,835	6,269	7,144	2,142	KHX-75	359	189
LPG-214R	21,400	10,442	11,028	11,870	12,456	6,809	7,546	8,596	2,352	KHX-100	497	233

† EC Motors not available in 460V or 575V. ECM = Electronically Commutated Motors PSC = Permanent Split Capacitor

- Use EC motors for 50HZ operation.
- \$364 List adder for liquid txv bypass check valve, shipped loose. \$559 list price adder for factory mounted liquid txv bypass check valve. Consult factory for installed liquid check valve prices.
- Hot Gas reverse cycle includes a fixed defrost termination control and a fixed fan delay control, factory wired.
- Check valve between Hot Gas drain pan circuit and the coil is included in all Reverse Cycle models.
- See page 6 for prices to add appropriate system accessories.
- \$306 List adder for adjustable termination/fan delay control in lieu of fixed.
- \$125 List adder per fan for epoxy high throw fan guards or epoxy coated wire fan guards.

**NOTE:** Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit.

Specify voltage and motor type when ordering. See LPG Series brochure for nomenclature, voltage code and motor code.

## MEDIUM SILHOUETTE - HOT GAS REVERSE CYCLE

Model Number	BTU/HR @ 10° TD	Single Speed EC Motors†		Dual Speed EC Motors†		Variable Speed EC Motors			Single Speed PSC Motors				Insulated Drain Pan	HEAT EXCHANGER		APPROX. SHIP WT. (LBS)
		115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1	575V/1		MODEL	LIST	
<b>4 FPI</b>																
MSG-105R	10,500	\$6,981	\$7,337	\$7,393	\$7,831	\$7,553	\$7,579	\$8,331	\$5,692	\$6,061	\$6,480	\$6,610	\$1,787	KHX 150	\$359	120
MSG-140R	14,000	8,337	8,687	8,749	9,187	8,909	8,935	9,681	7,096	7,459	7,992	8,152	1787	KHX 150	359	135
MSG-175R	17,500	10,653	10,844	11,271	11,503	11,511	11,550	12,335	9,304	9,508	10,121	10,324	2004	KHX 150	359	285
MSG-230R	23,000	13,555	13,724	14,063	14,405	14,385	14,445	14,718	12,237	12,412	12,936	13,195	1787	KHX 250	497	315
MSG-325R	32,500	17,091	17,392	17,599	17,941	17,921	17,981	18,386	15,351	15,650	16,546	16,878	1787	KHX 350	509	350
MSG-390R	39,000	19,606	19,902	20,368	20,881	20,851	20,941	21,393	17,275	17,573	18,670	19,044	2004	KHX 350	509	425
MSG-510R	51,000	20,386	20,714	21,148	21,661	21,631	21,721	22,205	17,725	18,043	19,237	19,622	2004	KHX 500	808	530

### 6 FPI

CSG-130R	13,000	\$6,515	\$6,881	\$6,927	\$7,365	\$7,087	\$7,113	\$7,875	\$5,894	\$6,271	\$6,543	\$6,324	\$1,787	KHX 150	\$359	125
CSG-150R	15,000	8,208	8,299	8,620	9,058	8,780	8,806	9,293	7,339	7,426	7,762	7,792	1787	KHX 150	359	140
CSG-185R	18,500	9,061	9,203	9,679	10,336	9,919	9,958	10,694	9,695	9,896	10,430	10,418	2004	KHX 150	359	295
CSG-270R	27,000	11,755	11,964	12,263	12,605	12,585	12,645	12,958	12,554	12,902	13,554	13,527	1787	KHX 250	497	320
CSG-320R	32,000	13,295	13,614	13,803	14,145	14,125	14,185	14,608	13,424	13,805	14,694	14,768	1787	KHX 350	509	365
CSG-385R	38,500	15,540	15,761	16,302	16,815	16,785	16,875	17,252	15,835	16,034	16,995	17,202	2004	KHX 350	509	450
CSG-460R	46,000	17,530	17,917	18,292	18,805	18,775	18,865	19,408	18,406	18,725	19,870	20,121	2004	KHX 500	808	490
CSG-520R	52,000	19,247	19,661	20,009	20,522	20,492	20,582	21,152	20,072	20,484	21,611	21,879	2004	KHX 500	808	535

For adjustable DTFD add - \$306 list per unit.

Reverse Cycle Evaps have TXV bypass check valve and pan circuit/coil check valve installed. Suction check valve is to be supplied & installed by others.

ECM = Electronically Commutated Motors PSC = Permanent Split Capacitor

† EC Motors not available in 460V or 575V.

- Liquid (TEV Bypass) check valve is shipped loose for field installation. Consult factory for installed liquid check valve pricing.
- \*\* These 460V/1 models use 1/3 HP motors for all units.

**NOTE:** Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit. Variable speed motors require a field supplied controller.



# HOT GAS DEFROST EVAPORATORS - THERMOBANK

## COOLMASTER

MODEL NUMBER	BTU/HR @ 10° TD	LIST PRICE 208-230/460/3	HEAT EXCHANGER		APPROX. SHIP WT. (LBS)
			MODEL	LIST PRICE	

### 4 FPI - Standard Fan

TV-400D	40,000	\$15,897	KHX-350	\$509	\$760
TV-550D	55,000	18,212	KHX-500	808	860
TV-750D	75,000	24,424	KHX-1500	2,218	1,150
TV-950D	95,000	31,240	KHX-1500	2,218	1,260
TV-1100D	108,000	32,433	KHX-2000	2,374	1,350
TV-1200D	120,000	34,986	KHX-2000	2,374	2,130
TV-1400D	140,000	41,667	KHX-2500	2,542	2,280
TV-1600D	160,000	53,927	KHX-3000	2,804	2,370
TV-1900D	186,000	59,689	KHX-4000	3,119	2,580

### 4 FPI - Pressure Propeller\*

TV-400PP	40,000	\$17,981	KHX-350	\$509	\$850
TV-550PP	55,000	20,296	KHX-500	808	950
TV-750PP	75,000	26,508	KHX-1500	2,218	1,360
TV-950PP	95,000	33,324	KHX-1500	2,218	1,440
TV-1100PP	108,000	34,517	KHX-2000	2,374	1,580
TV-1200PP	120,000	38,112	KHX-2000	2,374	2,430
TV-1400PP	140,000	44,793	KHX-2500	2,542	2,530
TV-1600PP	160,000	58,095	KHX-3000	2,804	2,670
TV-1900PP	186,000	63,587	KHX-4000	3,119	2,780

### 6 FPI - Standard Fan

CTV-450D	45,200	\$16,458	KHX-350	\$509	\$770
CTV-620D	62,200	18,825	KHX-500	808	880
CTV-850D	84,800	27,572	KHX-1500	2,218	1,170
CTV-1070D	107,400	32,515	KHX-1500	2,218	1,285
CTV-1220D	122,000	36,883	KHX-2000	2,374	1,380
CTV-1360D	135,600	40,451	KHX-2000	2,374	2,170
CTV-1580D	158,200	43,642	KHX-2500	2,542	2,330
CTV-1800D	180,800	55,279	KHX-3000	2,804	2,420
CTV-2100D	210,200	62,249	KHX-4000	3,119	2,630

### 6 FPI - Pressure Propeller\*

CTV-450PP	45,200	\$18,542	KHX-350	\$509	\$860
CTV-620PP	62,200	20,909	KHX-500	808	965
CTV-850PP	84,800	29,656	KHX-1500	2,218	1,390
CTV-1070PP	107,400	34,599	KHX-1500	2,218	1,465
CTV-1220PP	122,000	38,967	KHX-2000	2,374	1,610
CTV-1360PP	135,600	43,577	KHX-2000	2,374	2,470
CTV-1580PP	158,200	46,768	KHX-2500	2,542	2,580
CTV-1800PP	180,800	59,447	KHX-3000	2,804	2,720
CTV-2100PP	210,200	66,417	KHX-4000	3,119	2,830

THERMOBANK evaporator price does not include DTFD or other controls.

Air Straighteners list adder per fan. **\$434**

Models with Pressure Propeller fans are for use in Blast Freezers with air pressure drop up to 0.5" static pressure.

Models with PP fans are not for use above +25°F room temperature.

# HOT GAS DEFROST EVAPORATORS - THERMOBANK

## LOW PROFILE - HOT GAS/ 3 PIPE DEFROST MODELS

Model Number	Single Speed EC Motors†		Dual Speed EC Motors†		Single Speed PSC Motors†			Insulated Drain Pan	APPROX. SHIP WT. (LBS)
	115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1		
	<b>6 FPI</b>								
LPG-35T	\$2,948	\$3,045	\$3,381	\$3,478	\$2,768	\$2,865	\$3,040	\$1,230	41
LPG-41T	3,066	3,172	3,499	3,605	2,886	2,992	3,167	1,230	44
LPG-46T	3,213	3,328	3,646	3,761	3,033	3,148	3,323	1,230	47
LPG-63T	3,999	4,134	4,865	5,000	3,639	3,774	4,124	1,619	54
LPG-71T	4,372	4,684	5,238	5,550	4,012	4,324	4,674	1,619	55
LPG-92T	4,795	5,316	5,661	6,182	4,435	4,956	5,306	1,619	62
LPG-120T	5,872	6,404	7,171	7,703	5,332	5,864	6,389	1,724	78
LPG-138T	6,725	7,484	8,024	8,783	6,185	6,944	7,469	1,724	85
LPG-162T	7,374	8,066	9,106	9,798	6,654	7,346	8,046	1,933	128
LPG-184T	8,091	8,775	9,823	10,507	7,371	8,055	8,755	1,933	152
LPG-220T	8,703	9,463	10,868	11,628	7,803	8,563	9,438	2,142	195
LPG-240T	10,322	11,298	12,920	13,896	9,242	10,218	11,268	2,352	238
LPG-265T	11,757	12,270	14,355	14,868	10,677	11,190	12,240	2,352	262

Model Number	Single Speed EC Motors†		Dual Speed EC Motors†		Single Speed PSC Motors†			Insulated Drain Pan	APPROX. SHIP WT. (LBS)
	115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1		
	<b>4 FPI</b>								
LPG-38T	\$2,996	\$3,161	\$3,429	\$3,594	\$2,816	\$2,981	\$3,156	1,230	42
LPG-70T	4,443	4,568	5,309	5,434	4,083	4,208	4,558	1,619	49
LPG-86T	4,949	5,132	5,815	5,998	4,589	4,772	5,122	1,619	55
LPG-106T	5,561	6,097	6,860	7,396	5,021	5,557	6,082	1,724	79
LPG-142T	7,287	7,953	9,019	9,685	6,567	7,233	7,933	1,933	149
LPG-182T	8,844	9,376	11,009	11,541	7,944	8,476	9,351	2,142	189
LPG-214T	10,220	11,131	12,818	13,729	9,140	10,051	11,101	2,352	233

† EC Motors not available in 460V or 575V. ECM = Electronically Commutated Motors PSC = Permanent Split Capacitor

Use EC motors for 50HZ operation.

1. Hot Gas 3 Pipe Defrost models include a fixed defrost termination control and a fixed fan delay control, factory wired.

2. See page 6 for prices to add appropriate system accessories.

Specify voltage and motor type when ordering. See LPG Series brochure for complete nomenclature, voltage code and motor code.

## MEDIUM SILHOUETTE

Model Number	Single Speed EC Motors†		Dual Speed EC Motors†		Variable Speed EC Motors†			Single Speed PSC Motors†				Insulated Drain Pan	HEAT EXCHANGER		APPROX. SHIP WT. (LBS)
	115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1	575V/1		MODEL	LIST	
	<b>4 FPI</b>														
MSG-105T	\$6,408	\$6,764	\$6,820	\$7,240	\$6,980	\$7,006	\$7,758	\$5,119	\$5,489	\$5,908	\$6,038	\$1,787	KHX 150	\$359	120
MSG-140T	7,766	8,115	8,178	8,591	8,338	8,364	9,109	6,525	6,886	7,419	7,579	1,787	KHX 150	359	135
MSG-175T	10,081	10,273	10,699	10,987	10,939	10,978	11,764	8,732	8,938	9,551	9,754	2,004	KHX 150	359	285
MSG-230T	12,827	12,997	13,335	13,531	13,657	13,717	13,991	11,509	11,682	12,206	12,465	1,787	KHX 250	497	315
MSG-325T	16,360	16,664	16,868	17,198	17,190	17,250	17,658	14,620	14,923	15,819	16,151	1,787	KHX 350	509	350
MSG-390T	18,878	19,171	19,640	19,972	20,123	20,213	20,662	16,547	16,846	17,943	18,317	2,004	KHX 350	509	425
MSG-510T	19,659	19,982	20,421	20,783	20,904	20,994	21,473	16,998	17,314	18,508	18,893	2,004	KHX 500	808	530

Model Number	Single Speed EC Motors†		Dual Speed EC Motors†		Variable Speed EC Motors†			Single Speed PSC Motors†				Insulated Drain Pan	HEAT EXCHANGER		APPROX. SHIP WT. (LBS)
	115V/1	230V/1	115V/1	230V/1	115V/1	230V/1	460V/1**	115V/1	230V/1	460V/1	575V/1		MODEL	LIST	
	<b>6 FPI</b>														
CSG-130T	\$5,946	\$6,310	\$6,358	\$6,786	\$6,518	\$6,544	\$7,304	\$5,325	\$5,702	\$5,974	\$5,755	\$1,787	KHX 150	\$359	125
CSG-150T	7,639	7,728	8,051	8,204	8,211	8,237	8,722	6,770	6,857	7,193	7,223	1,787	KHX 150	359	140
CSG-185T	8,489	8,634	9,107	9,348	9,347	9,386	10,125	9,123	9,325	9,859	9,847	2,004	KHX 150	359	295
CSG-270T	11,181	11,391	11,689	11,925	12,011	12,071	12,385	11,980	12,332	12,984	12,957	1,787	KHX 250	497	320
CSG-320T	12,567	12,885	13,075	13,419	13,397	13,457	13,879	12,696	13,078	13,967	14,041	1,787	KHX 350	509	365
CSG-385T	14,813	15,040	15,575	15,841	16,058	16,148	16,531	15,108	15,309	16,270	16,477	2,004	KHX 350	509	450
CSG-460T	16,797	17,187	17,559	17,988	18,042	18,132	18,678	17,673	18,001	19,146	19,397	2,004	KHX 500	808	490
CSG-520T	18,517	18,933	19,279	19,734	19,762	19,852	20,424	19,342	19,759	20,886	21,154	2,004	KHX 500	808	535

THERMOBANK evaporator prices do not include DTFD or other controls.

ECM = Electronically Commutated Motors PSC = Permanent Split Capacitor

† EC motors are not available for 575V applications.

\*\* These 460V/1 models use 1/3 HP motors for all units.

NOTE: Units with dual speed motors include a relay which controls motor speed when wired to the room T-stat. Field wiring is required unless the T-Stat is mounted on the unit. Variable speed motors require a field supplied controller.

Specify voltage and motor type when ordering. See MSG and CSG Series brochure for nomenclature, voltage code and motor codes.

# APEX • TOP MOUNTED REFRIGERATION SYSTEM

## Medium Temperature - Air Defrost

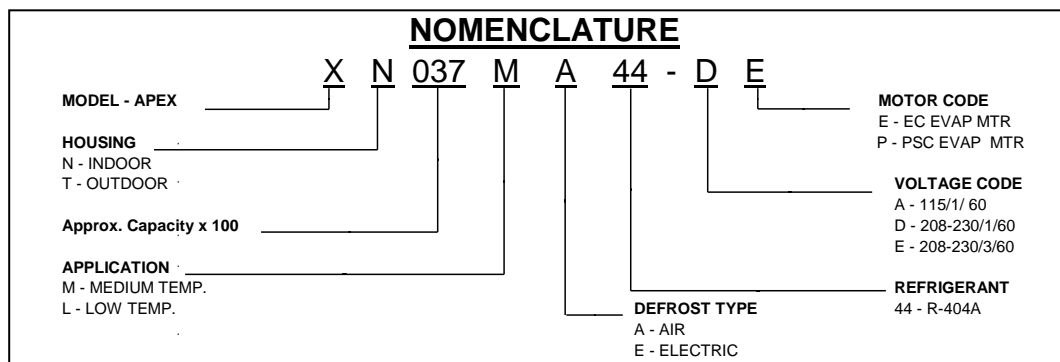
Model Number	Indoor List Price EC Evap Mtr	Indoor List Price PSC Evap Mtr	Outdoor List Price EC Evap Mtr	Outdoor List Price PSC Evap Mtr	Indoor Power Cord	Volts/Ph/Hz	INDOOR NET / SHIP WT. (lbs.)	OUTDOOR NET / SHIP WT. (lbs.)	Extended† Compressor Warranty Net Price
XN026MA44A*	\$5,633	\$5,305	N/A	N/A	Yes	115/1/60	120 / 185	N/A	\$78
XN029MA44A*	6,183	5,789	N/A	N/A	Yes	115/1/60	120 / 185	N/A	78
XN037MA44A*	6,373	6,284	N/A	N/A	Yes	115/1/60	125 / 190	N/A	78
XN050MA44A*	8,226	7,870	N/A	N/A	Yes	115/1/60	210 / 305	N/A	78
X*050MA44D*	8,226	7,870	\$9,381	\$8,997	Yes	208-230/1/60	210 / 305	220 / 360	78
X*068MA44D*	9,485	8,434	10,430	9,631	Yes	208-230/1/60	220 / 315	230 / 370	78
X*076MA44D*	10,371	9,499	11,290	10,404	Yes	208-230/1/60	220 / 315	230 / 375	78
X*106MA44D*	11,786	10,110	12,331	11,152	Yes	208-230/1/60	295 / 420	310 / 485	80
X*106MA44E*	10,996	10,259	12,503	11,318	No	208-230/3/60	295 / 420	310 / 485	80
X*134MA44D*	13,020	11,247	13,348	12,291	No	208-230/1/60	310 / 435	325 / 500	96
X*134MA44E*	13,182	11,396	13,514	12,454	No	208-230/3/60	310 / 435	325 / 500	96

## Medium Temperature - Electric Defrost

Model Number	Indoor List Price EC Evap Mtr	Indoor List Price PSC Evap Mtr	Outdoor List Price EC Evap Mtr	Outdoor List Price PSC Evap Mtr	Indoor Power Cord	Volts/Ph/Hz	INDOOR NET / SHIP WT. (lbs.)	OUTDOOR NET / SHIP WT. (lbs.)	Extended† Compressor Warranty Net Price
XN026ME44A*	5,728	\$5,384	N/A	N/A	Yes	115/1/60	120 / 185	N/A	\$78
XN029ME44A*	6,281	5,883	N/A	N/A	Yes	115/1/60	120 / 185	N/A	78
XN037ME44A*	6,445	6,343	N/A	N/A	Yes	115/1/60	125 / 190	N/A	78
X*050ME44A*	8,376	7,961	N/A	N/A	Yes	115/1/60	210 / 305	N/A	78
X*050ME44D*	8,816	8,090	\$9,454	\$9,238	Yes	208-230/1/60	210 / 305	220 / 360	78
X*068ME44D*	9,707	8,532	10,837	9,857	Yes	208-230/1/60	220 / 315	230 / 370	78
X*076ME44D*	10,537	9,678	11,434	10,227	Yes	208-230/1/60	220 / 315	230 / 375	78
X*106ME44D*	12,238	11,513	12,615	11,450	Yes	208-230/1/60	295 / 420	310 / 485	80
X*106ME44E*	11,948	11,411	12,565	11,444	No	208-230/3/60	295 / 420	310 / 485	80
X*134ME44D*	13,715	12,092	13,798	12,692	No	208-230/1/60	310 / 435	325 / 500	96
X*134ME44E*	13,185	12,014	13,709	12,468	No	208-230/3/60	310 / 435	325 / 500	96

## Low Temperature - Electric Defrost

Model Number	Indoor List Price EC Evap Mtr	Indoor List Price PSC Evap Mtr	Outdoor List Price EC Evap Mtr	Outdoor List Price PSC Evap Mtr	Indoor Power Cord	Volts/Ph/Hz	INDOOR NET / SHIP WT. (lbs.)	OUTDOOR NET / SHIP WT. (lbs.)	Extended† Compressor Warranty Net Price
XN018LE44A	\$8,792	\$8,031	N/A	N/A	Yes	115/1/60	140 / 200	N/A	\$78
X*024LE44A	9,516	9,108	N/A	N/A	Yes	115/1/60	210 / 305	N/A	78
X*024LE44D	9,516	9,108	\$10,824	\$10,408	Yes	208-230/1/60	210 / 305	225 / 365	78
X*031LE44D	10,916	10,033	12,311	11,391	Yes	208-230/1/60	245 / 340	255 / 400	78
X*043LE44D	12,101	11,120	13,746	12,721	Yes	208-230/1/60	245 / 340	255 / 400	80
X*051LE44D	13,835	12,497	15,519	14,134	Yes	208-230/1/60	315 / 445	315 / 445	80
X*051LE44E	13,835	12,497	15,519	14,134	No	208-230/3/60	315 / 445	315 / 445	80
X*068LE44D	14,892	13,471	16,703	15,231	No	208-230/1/60	320 / 450	335 / 515	94
X*068LE44E	14,892	13,471	16,703	15,142	No	208-230/3/60	320 / 450	335 / 515	94



### Saving Time and Money

- Fully factory assembled, charged and tested.
- No piping or loose components to install which saves you labor cost \$\$\$.
- PSC condenser motors for all units.
- Adjustable digital controller is preset for typical cooler or freezer applications.
- **Two-year warranty on all parts\***  
See Apex IOM M900 for full Warranty Statement

### Quick Installation

- Installs in a fraction of the time it takes for a typical split refrigeration systems.
- The supply/return register mounts flush with a standard 4" ceiling panel which provides for more storage in your cooler or freezer.
- Condensate is evaporated so no drain line is required on indoor models.
- Outdoor models come standard with a roof and drain line connection (see drawing in Catalog 509).

\* Insert character for housing code or motor code as applicable

## 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. Minimum order charge is \$50.00.
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. 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. Full freight is allowed on shipments with a net price value of \$7000.00 or more, except surface coils and parts within the continental U.S.A. excluding Alaska and Hawaii.
5. **Taxes:** Any sales, use, excise, or similar tax payable by Seller which is or may be imposed by any taxing authority upon manufacture, sale or delivery of goods covered by any order or any increase in rate of any such tax now in force shall be added to the sales price; if not collected at the time of payment of sales price, Buyer will hold Seller harmless.
6. **Limited Warranty:** Seller warrants against defect in materials and workmanship in products which it manufactures for (1) year from date of installation or up to (18) eighteen months from the date of shipment, whichever event occurs first, when properly installed and operated under normal use. This guarantee does not include any labor or other charges made outside of the Seller's factory for replacement or repair of defective parts unless specifically stated in the body of the Seller's invoice. On parts not manufactured by Seller, such as motors, controls, valves and compressors we extend to the Buyer the same warranties made to us by the manufacturer. Seller's only liability under this warranty or otherwise shall be the repair or replacement (at Seller's option) of non-conforming goods or parts. Seller assumes no liability for incidental or consequential damages such as injury to person or property, or lost profits.  
  
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7. **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.
8. **Cancellations and Returned Goods:** Permission to return any part or product must be obtained from Seller. 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 Material Return Authorization Number or not freight prepaid cannot be received by Seller. Obsolete products or material made to special order are not returnable.
9. **Catalog Materials and Drawings:** Seller is not responsible for typographical errors or other errors of omission in Seller's catalogs or drawings.
10. **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.
11. **Choices of law, Disputes:** This agreement and the performance of the parties hereunder shall be construed in accordance with and governed by the laws of the State of Georgia and shall be deemed made in the state. Buyer irrevocably consents to the exclusive jurisdiction of the courts of Fulton County on all matters arising out of or relating to this sale and Buyer further irrevocably consents to service of process by certified mail, return receipt requested, at Buyer's address set forth in the order acknowledgement.

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



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