KRAMER

Catalog KM-KAX-0516A

KA-SERIES

LOW PROFILE UNIT COOLER

AIR DEFROST MODELS

3,900 to 39,000 BTUH

SMALL TO MEDIUM WALK-IN

COOLER APPLICATIONS

c UL us NSF

Features

Kramer Low Profile Unit Coolers feature an air draw-through design, easy access for serviceability, and are available as air, electric or hot gas defrost models. Air Defrost models (prefix "KA") are designed for use in coolers of 35°F and warmer. Complete air defrost systems for off-cycle or timed air defrost are available. These Low Profile Unit Coolers can be used in combination with Kramer's Next-Gen Kompact K-Series Condensing Units to provide a complete refrigeration solution for small to medium walk-ins.

SIZES

There are a wide array of sizes available with capacities ranging from 3,600 to 39,000 BTUH at a 10°TD spanning from 740 to 4,880 cfm. One through six fan models are available.

HOUSING

The embossed Aluminum casing is light weight yet durable. Each fan section is baffled to prevent short cycling of the air. The unit is designed to mount flush to the ceiling and meets all NSF requirements. The top pan is slotted for simple installation. The drain fitting is installed in the bottom of the drain pan for easy field connection and the drain fitting can be quickly replaced without replacing the entire drain pan.

End panels slide out for easy serviceability from the front or ends of the unit

COIL

Copper hairpins are staggered and mechanically expanded into corrugated Aluminum fins and tube sheets to achieve maximum heat transfer. Die formed fin collars provide even fin spacing and are available in 6 and 8 fins per inch. Sweat connections are standard on all models.

FANS

Heavy duty 12" Aluminum fans are balanced to provide vibration-free operation. Our low throw black plastic fan guards provide an optimal air pattern. The optional high throw fan guard moves air up to 25 feet.

ELECTRICAL

Available in 115V, 208/230V and 460V. All components are factory wired to convenient screw-type terminal strips. A large compartment is supplied internal to the unit for all electrical components and is easily accessible by opening the slide out end panel. All models are UL and cUL listed and are available in 60 or 50 Hz.

Optional Features

- Coated Aluminum fins (epoxy, ElectroFin[1] or Heresite[1]) or Copper fins
- Coated housing (same options as above)
- Epoxy resin high throw guards for up to 25 ft. air throw
- Adjustable termination/ fan delay control*
- Insulated drain pan*

* These options require the units to be built as Revision B models.

1. ElectroFin and Heresite coatings are not NSF approved. NSF approval label will be removed from unit if ordered with these coatings.

Motors

High efficiency single-speed and dual-speed Electronically Commutated (EC) motors are available in 115V and 208/230V. The dual-speed EC motors are compliant with California Title 24 regulations. Single-speed PSC motors are available in 115V, 208/230V and 460V. All motors include thermal overload protection.

Energy Savings by Switching from PSC to Efficient EC Motor

Chart is based on Energy Cost of $0.10 per kWh.

Motor Change	Std Motor Power Watts/ Mtr	Change to Motor Power Watts/Mtr	Reduced Power Watts/ Mtr	Run Time Hrs/ Day	Motor Energy Savings kWh/Yr	Motor Energy Savings $/Yr	Reduced Box Load MBTU/Yr	Cond. Unit Energy Savings $/Yr	Yearly Saving $ Per MTR	Pay back in Yrs
PSC to EC	85	47	38	22	305	31	1041	20	51	2.0

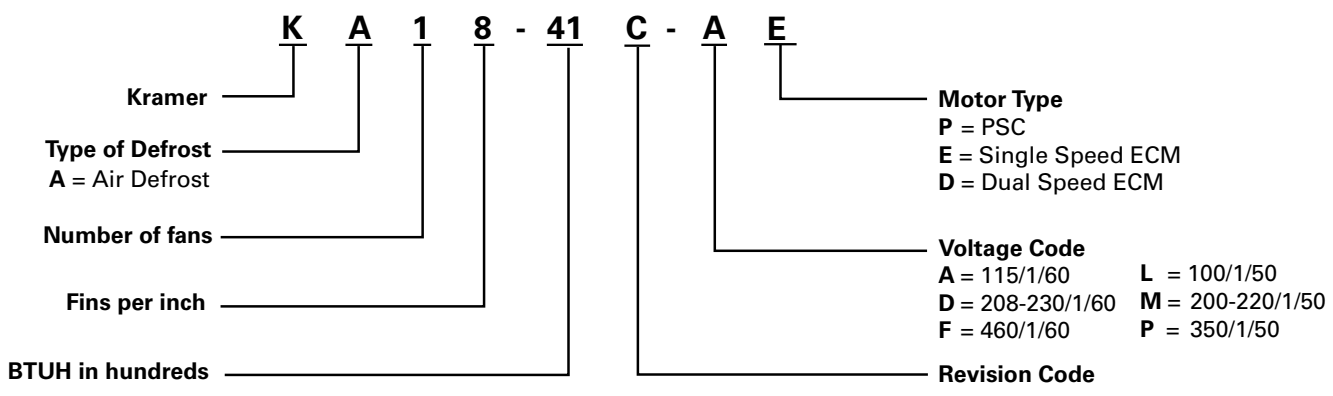
PSC = 1/20 HP PSC motor
EC = 50 Watt Electronically Commutated motor

Performance and Electrical Data

	Model Number	BTUH* Capacity @ 25°F Suction Temperature		CFM	Motor Qty.	Total Fan Motor AMPS - 1 Phase				
						Single and Dual^ Speed EC Motors†		Single Speed PSC Motors		
		10° TD	12° TD			115V	208-230V	115V	208-230V	460V
8 FPI	KA18-41C	4,100	4,900	800	1	0.8	0.5	1.0	0.5	0.4
	KA18-53C	5,300	6,400	770	1	0.8	0.5	1.0	0.5	0.4
	KA18-66C	6,600	7,900	740	1	0.8	0.5	1.0	0.5	0.4
	KA28-76C	7,600	9,100	1,460	2	1.6	1.0	2.0	1.0	0.8
	KA28-97C	9,700	11,600	1,420	2	1.6	1.0	2.0	1.0	0.8
	KA28-106C	10,600	12,700	1,540	2	1.6	1.0	2.0	1.0	0.8
	KA28-122C	12,200	14,600	1,380	2	1.6	1.0	2.0	1.0	0.8
	KA28-134C	13,400	16,100	1,480	2	1.6	1.0	2.0	1.0	0.8
	KA38-160C	16,000	19,200	2,310	3	2.4	1.5	3.0	1.5	0.8
	KA38-195C	19,500	23,400	2,220	3	2.4	1.5	3.0	1.5	1.2
	KA48-212C	21,200	25,400	3,080	4	3.2	2.0	4.0	2.0	1.6
	KA48-264C	26,400	31,700	2,960	4	3.2	2.0	4.0	2.0	1.6
	KA58-275C	27,500	33,000	3,850	5	4.0	2.5	5.0	2.5	2.0
	KA68-318C	31,800	38,200	4,620	6	4.8	3.0	6.0	3.0	2.4
	KA68-390C	39,000	46,800	4,440	6	4.8	3.0	6.0	3.0	2.4
6 FPI	KA16-39C	3,900	4,700	830	1	0.8	0.5	1.0	0.5	0.4
	KA16-48C	4,800	5,800	800	1	0.8	0.5	1.0	0.5	0.4
	KA16-58C	5,800	7,000	780	1	0.8	0.5	1.0	0.5	0.4
	KA26-70C	7,000	8,400	1,540	2	1.6	1.0	2.0	1.0	0.8
	KA26-87C	8,700	10,400	1,500	2	1.6	1.0	2.0	1.0	0.8
	KA26-115C	11,500	13,800	1,560	2	1.6	1.0	2.0	1.0	0.8
	KA36-145C	14,500	17,400	2,400	3	2.4	1.5	3.0	1.5	1.2
	KA36-170C	17,000	20,400	2,340	3	2.4	1.5	3.0	1.5	1.2
	KA46-192C	19,200	23,000	3,200	4	3.2	2.0	4.0	2.0	1.6
	KA46-230C	23,000	27,600	3,120	4	3.2	2.0	4.0	2.0	1.6
	KA56-245C	24,500	29,400	4,000	5	4.0	2.5	5.0	2.5	2.0
	KA66-295C	29,500	35,400	4,800	6	4.8	3.0	6.0	3.0	2.4
	KA66-345C	34,500	41,400	4,680	6	4.8	3.0	6.0	3.0	2.4

Use EC motors for 50 Hz operation.
* Standard rating based on R404A refrigerant with 100°F liquid temperature. Consult factory for other operating conditions.
† These Electronically Commutated (EC) Motors are not available in 460V or 575V.
^ Dual-speed EC motors are compliant with California Title 24 regulations.

MODEL NUMBER NOMENCLATURE



Physical Data

MODELS	TXV* TYPE	REFRIGERANT CONNECTIONS		NO. OF HANGERS	DIMENSIONS (Inches)				APPROX. SHIP WT. (LBS)
		LIQUID†	SUCTION		A	B	C	W	
KA18-41C	EXT	1/2 ODS	5/8 ODS	2	19	—	—	27	33
KA18-53C	EXT	1/2	5/8	2	19	—	—	27	34
KA18-66C	EXT	1/2	5/8	2	19	—	—	27	36
KA28-76C	EXT	1/2	5/8	2	33	—	—	41	48
KA28-97C	EXT	1/2	7/8	2	33	—	—	41	51
KA28-106C	EXT	1/2	7/8	2	37	—	—	45	58
KA28-122C	EXT	1/2	7/8	2	33	—	—	41	60
KA28-134C	EXT	1/2	7/8	2	37	—	—	45	63
KA38-160C	EXT	1/2	1-1/8	2	55	—	—	63	79
KA38-195C	EXT	1/2	1-1/8	2	55	—	—	63	84
KA48-212C	EXT	1/2	1-1/8	3	36-1/2	36-1/2	—	81	127
KA48-264C	EXT	1/2	1-1/8	3	36-1/2	36-1/2	—	81	151
KA58-275C	EXT	1/2	1-1/8	3	54-1/2	36-1/2	—	99	197
KA68-318C	EXT	1/2	1-1/8	4	37	36	36	117	243
KA68-390C	EXT	1/2	1-1/8	4	37	36	36	117	267
KA16-39C	EXT	1/2 ODS	5/8 ODS	2	19	—	—	27	41
KA16-48C	EXT	1/2	5/8	2	19	—	—	27	44
KA16-58C	EXT	1/2	5/8	2	19	—	—	27	47
KA26-70C	EXT	1/2	5/8	2	33	—	—	41	54
KA26-87C	EXT	1/2	7/8	2	33	—	—	41	55
KA26-115C	EXT	1/2	7/8	2	37	—	—	45	62
KA36-145C	EXT	1/2	7/8	2	55	—	—	63	78
KA36-170C	EXT	1/2	1-1/8	2	55	—	—	63	85
KA46-192C	EXT	1/2	1-1/8	3	36-1/2	36-1/2	—	81	124
KA46-230C	EXT	1/2	1-1/8	3	36-1/2	36-1/2	—	81	147
KA56-245C	EXT	1/2	1-1/8	3	54-1/2	36-1/2	—	99	195
KA66-295C	EXT	1/2	1-1/8	4	37	36	36	117	238
KA66-345C	EXT	1/2	1-1/8	4	37	36	36	117	262

* External equalized

† Sweat connection at the distributor. Mounted TXV outlet size may vary. All factory mounted Liquid Line Solenoids have 3/8" outlets.

Installation Notes:

(1) Install 12" away from back wall.

(2) Drain connections are centered on the drain pan.

(3) For long air throw requirements, specify high throw fan guard.

(4) 3/4" MPT drain connection