KRAMER

A2L

LOW VELOCITY CENTER MOUNT UNIT COOLER

Walk-Ins: Small to Medium Cooler Applications

Air Defrost

5,300 to 33,800 BTUH

Electric Defrost

5,300 to 33,800 BTUH

FEATURES

Low Velocity Center Mount Unit Coolers mount flush to the ceiling to provide extra storage space. Units are ideal for florist boxes; produce storage; meat cutting, holding and packing rooms; and similar applications. Features include two-way air flow to provide for even circulation and temperature, easy serviceability, usability with multiple refrigerants, and are available in air and electric defrost models.

SIZES

There are a wide array of sizes available with capacities ranging from 5,300 to 33,800 BTUH at a 10° TD. One through five fan models are available with air flow spanning a range of 632 to 3,160 CFM.

HOUSING

The embossed aluminum casing is lightweight yet durable. Each fan section is baffled to prevent short cycling of the discharge air. The units are designed to mount flush to the ceiling and are compliant with NSF requirements. Top panel contains 3/8" mounting holes to simplify installation. The housing is sloped to provide more efficient condensate draining. A uniquely shaped control access cover allows for easy access for service in confined spaces.

COIL

Copper hairpins consist of high efficiency 3/8" enhanced copper tubes which are staggered and mechanically expanded into corrugated aluminum fins achieving maximum heat transfer while reducing refrigerant charge. Die formed fin collars provide even fin spacing. All models are available with 6 fins per inch (FPI). Sweat connections are standard on all models.

MOTORS

Standard models feature highly efficient Dual Speed Electronically Commutated (EC) motors. Dual Speed EC motors are available for 115V or 208-230V and are compliant with California Title 24 regulations. All motors include thermal overload protection.

FANS & FAN GUARDS

Aluminum 12" fans are balanced to provide vibration-free operation. Improved black plastic fan guard design and deep draw venturi achieve optimal air pattern. Fan motors and blades can be easily accessed by removing the fan guard.

REFRIGERANTS

Low Velocity Unit Coolers are optimized for multiple A2L refrigerants including R454A, R454C and R455A. Please specify the refrigerant requirements when ordering. A seperate compartment is provided for all refrigerant connections which allows for internal mounting of expansion valves.

AIR DEFROST

Air Defrost models are designed for use in coolers down to 35°F. All components are factory wired to convenient screw-type terminal strips.

ELECTRIC DEFROST

Electric Defrost models are designed for use in coolers and freezers down to 28°F.

ELECTRICAL

Available for 115V (Air Defrost) and 208-230V. All of the components are factory wired to terminal strips and are UL and cUL listed.

OPTIONAL FEATURES

- EcoNet® Enabled Controller1 (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)
- Safety Shut Off Valve (SSOV) in place Liquid Line Solenoid Available Loose for field installation.
- Insulated Drain Pan
- Painted Cabinet (White or Black)
- Stainless Steel Cabinet
- Coated Coil (Russproof, Heresite, Bronz-Glow, or Electrofin®)

MODEL NOMENCLATURE

K	A	V	6	A	053	A	D	A
Brand	Refrigerant Class	Style	Fins per Inch (FPI)	Defrost Type	BTUH in Thousands	Unit Voltage1	Motor Type	Vintage
K = Kramer	A2L R-454A R-454C R-455A	Low Velocity Center Mount	6 FPI	A = Air E = Electric	XXX	A = 115/1/60 D = 208-230/1/60	D = Dual Speed EC	A

^50 Hz available. Contact Factory for additional information.

1. 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. (Controller replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)

APPLICATION RATING & ELECTRICAL DATA // AIR DEFROST MODELS

	Model No.	BTUH Capacity @ 25°F S.T. & 10°F TD	CFM	No. of Fans	115V/1			208-230V/1		
		R454A/R454C/ R454A			Total Fan AMPS	MCA	MOPD	Total Fan AMPS	MCA	MOPD
6 FPI	KAV6A053*DA	5,300	654	1	0.8	15.0	20.0	0.5	15.0	20.0
	KAV6A066*DA	6,600	632	1	0.8	15.0	20.0	0.5	15.0	20.0
	KAV6A105*DA	10,500	1,308	2	1.6	15.0	20.0	1.0	15.0	20.0
	KAV6A 131*DA	13,100	1,264	2	1.6	15.0	20.0	1.0	15.0	20.0
	KAV6A159*DA	15,900	1,962	3	2.4	15.0	20.0	1.5	15.0	20.0
	KAV6A196*DA	19,600	1,896	3	2.4	15.0	20.0	1.5	15.0	20.0
	KAV6A216*DA	21,600	2,616	4	3.2	15.0	20.0	2.0	15.0	20.0
	KAV6A270*DA	27,000	2,528	4	3.2	15.0	20.0	2.0	15.0	20.0
	KAV6A338*DA	33,800	3,160	5	4.0	15.0	20.0	2.5	15.0	20.0

APPLICATION RATING & ELECTRICAL DATA // ELECTRIC DEFROST MODELS

	Model No.	BTUH Capacity @ 25°F S.T. & 10°F TD	CFM	No. of Fans	208-230V/1						
		R454A/R454C/ R454A			Total Fan AMPS	Base Model		Econet Enabled		Heater Amps	Heater Watts
						MCA	MOPD	MCA	MOPD		
6 FPI	KAV6E053DDA	5,300	654	1	0.5	15.0	20	15.0	20.0	3.2	750
	KAV6E066DDA	6,600	632	1	0.5	15.0	20	15.0	20.0	3.2	750
	KAV6E105DDA	10,500	1,308	2	1.0	15.0	20	15.0	20.0	6.5	1,500
	KAV6E131DDA	13,100	1,264	2	1.0	15.0	20	15.0	20.0	6.5	1,500
	KAV6E159DDA	15,900	1,962	3	1.5	15.0	20	15.0	20.0	9.8	2,250
	KAV6E196DDA	19,600	1,896	3	1.5	15.0	20	15.0	20.0	9.8	2,250
	KAV6E216DDA	21,600	2,616	4	2.0	15.0	20	15.0	20.0	13.0	3,000
	KAV6E270DDA	27,000	2,528	4	2.0	15.0	20	15.0	20.0	13.0	3,000
	KAV6E338DDA	33,800	3,160	5	2.5	15.0	20	17.3	20.0	16.3	3,750

*Each asterisk represents a variable character based on voltage ordered. See page 3 for nomenclature.

DISTRIBUTOR NOZZLES & EXPANSION VALVES // AIR DEFROST MODELS

Model No.		Part Numbers						No. of Circuits
		Nozzle @ Liq. Temp.		TXV @ Liq. Temp.		EEV @ Liq. Temp.		
		50°F	100°F	50°F	100°F	50°F	100°F	
6FPI - R454A	KAV6A053*DA	1/6,TYPE L	1/2,TYPE L	SBFTE-AAA-C	SBFTE-AA-C	SER-AA	SER-AA	2
	KAV6A066*DA	1/4,TYPE L	1/2,TYPE L	SBFTE-AA-C	SBFTE-AA-C	SER-AA	SER-AA	2
	KAV6A105*DA	1/3,TYPE L	1,TYPE L	SBFTE-AA-C	SBFTE-A-C	SER-A	SER-A	2
	KAV6A 131*DA	1/2,TYPE L	1,TYPE L	SBFTE-A-C	SBFTE-A-C	SER-A	SER-A	4
	KAV6A159*DA	1/2,TYPE L	1-1/2,TYPE L	SBFTE-A-C	SBFTE-A-C	SER-A	SER-B	4
	KAV6A196*DA	3/4,TYPE L	1-1/2,TYPE L	SBFTE-A-C	SBFTE-B-C	SER-B	SER-B	4
	KAV6A216*DA	3/4,TYPE L	2,TYPE L	SBFTE-A-C	SBFTE-B-C	SER-B	SER-B	6
	KAV6A270*DA	1,TYPE L	2,TYPE L	SBFTE-B-C	SBFTE-B-C	SER-B	SER-B	8
	KAV6A338*DA	1,TYPE L	3,TYPE L	SBFTE-B-C	SBFTE-C-C	SER-B	SER-C	8
6FPI - R454C	KAV6A053*DA	1/6,TYPE L	1/2,TYPE L	SBFVE-AA-C	SBFVE-AA-C	SER-AA	SER-A	2
	KAV6A066*DA	1/4,TYPE L	3/4,TYPE L	SBFVE-AA-C	SBFVE-AA-C	SER-AA	SER-A	2
	KAV6A105*DA	1/3,TYPE L	1,TYPE L	SBFVE-A-C	SBFVE-A-C	SER-A	SER-A	2
	KAV6A 131*DA	1/2,TYPE L	1-1/2,TYPE L	SBFVE-A-C	SBFVE-A-C	SER-A	SER-B	4
	KAV6A159*DA	1/2,TYPE L	1-1/2,TYPE L	SBFVE-A-C	SBFVE-B-C	SER-B	SER-B	4
	KAV6A196*DA	3/4,TYPE L	2,TYPE L	SBFVE-A-C	SBFVE-B-C	SER-B	SER-B	4
	KAV6A216*DA	3/4,TYPE L	2,TYPE L	SBFVE-B-C	SBFVE-B-C	SER-B	SER-C	6
	KAV6A270*DA	1,TYPE L	3,TYPE L	SBFVE-B-C	SBFVE-B-C	SER-B	SER-C	8
	KAV6A338*DA	1-1/2,TYPE L	3,TYPE L	SBFVE-B-C	SBFVE-C-C	SER-C	SER-C	8
6FPI - R455A	KAV6A053*DA	1/6,TYPE L	1/2,TYPE L	SBFVE-AA-C	SBFVE-AA-C	SER-AA	SER-A	2
	KAV6A066*DA	1/4,TYPE L	3/4,TYPE L	SBFVE-AA-C	SBFVE-AA-C	SER-AA	SER-A	2
	KAV6A105*DA	1/3,TYPE L	1,TYPE L	SBFVE-A-C	SBFVE-A-C	SER-A	SER-A	2
	KAV6A 131*DA	1/2,TYPE L	1-1/2,TYPE L	SBFVE-A-C	SBFVE-A-C	SER-A	SER-B	4
	KAV6A159*DA	1/2,TYPE L	1-1/2,TYPE L	SBFVE-A-C	SBFVE-B-C	SER-B	SER-B	4
	KAV6A196*DA	3/4,TYPE L	2,TYPE L	SBFVE-A-C	SBFVE-B-C	SER-B	SER-B	4
	KAV6A216*DA	3/4,TYPE L	2,TYPE L	SBFVE-B-C	SBFVE-B-C	SER-B	SER-C	6
	KAV6A270*DA	1,TYPE L	3,TYPE L	SBFVE-B-C	SBFVE-B-C	SER-B	SER-C	8
	KAV6A338*DA	1-1/2,TYPE L	3,TYPE L	SBFVE-B-C	SBFVE-C-C	SER-C	SER-C	8

*Asterisks represents a variable character based on voltage ordered. See Nomenclature on page 3.
TXV Type: Externally Equalized (EXT). For units with mounted TXV components, see nozzle/TXV table for distributor connection size when TXV is field supplied.

LOOSE COMPONENTS REQUIRED FOR A2L MITIGATION CONTROL // AIR DEFROST MODELS

Model No		Loose LLS @ Liquid Temp			Loose CSOV Mitigation CV	
		Size	50°F	100°F	Size	Description
6FPI - R454A	KAV6A053*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A066*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A105*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A 131*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A159*DA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6A196*DA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6A216*DA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6A270*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6A338*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
6FPI - R454C	KAV6A053*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A066*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A105*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A 131*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A159*DA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6A196*DA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6A216*DA	3/8	SSOV6S130	SSOV6S140	7/8	CSOV-7S
	KAV6A270*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6A338*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
6FPI - R455A	KAV6A053*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A066*DA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6A105*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A 131*DA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6A159*DA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6A196*DA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6A216*DA	3/8	SSOV6S130	SSOV6S140	7/8	CSOV-7S
	KAV6A270*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6A338*DA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S

Mitigation solenoid valve (SSOV) and mitigation suction line check valves (CSOV) operate as double duty mitigation controls for A2L leak mitigation system and are required to ship loose and be installed outside the refrigerated space.

Mitigation solenoid valve (SSOV) and mitigation suction line check valves (CSOV) are sized on a 1:1 condensing unit to evaporator ratio. Sizing assumes 100 ft line run, 10 ft vertical rise. Any design outside ofthese assumptions will require application support.

DISTRIBUTOR NOZZLES & EXPANSION VALVES // ELECTRIC DEFROST MODELS

Model No.		Part Numbers						No. of Circuits
		Nozzle @ Liq. Temp.		TXV @ Liq. Temp.		EEV @ Liq. Temp.		
		50°F	100°F	50°F	100°F	50°F	100°F	
6FPI - R454A	KAV6E053DDA	1/6,TYPE L	1/2,TYPE L	SBF-AAA-C	SBF-AA-C	SER-AA	SER-AA	2
	KAV6E066DDA	1/4,TYPE L	1/2,TYPE L	SBF-AA-C	SBF-AA-C	SER-AA	SER-AA	2
	KAV6E105DDA	1/3,TYPE L	1,TYPE L	SBF-AA-C	SBF-A-C	SER-A	SER-A	2
	KAV6E131DDA	1/2,TYPE L	1,TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-A	4
	KAV6E159DDA	1/2,TYPE L	1-1/2,TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-B	4
	KAV6E196DDA	3/4,TYPE L	1-1/2,TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	4
	KAV6E216DDA	3/4,TYPE L	2,TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	6
	KAV6E270DDA	1,TYPE L	2,TYPE L	SBF-B-C	SBF-B-C	SER-B	SER-B	8
	KAV6E338DDA	1,TYPE L	3,TYPE L	SBF-B-C	SBF-C-C	SER-B	SER-C	8
6FPI - R454C	KAV6E053DDA	1/6,TYPE L	1/2,TYPE L	SBF-AA-C	SBF-AA-C	SER-AA	SER-A	2
	KAV6E066DDA	1/4,TYPE L	3/4,TYPE L	SBF-AA-C	SBF-AA-C	SER-AA	SER-A	2
	KAV6E105DDA	1/3,TYPE L	1,TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-A	2
	KAV6E131DDA	1/2,TYPE L	1-1/2,TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-B	4
	KAV6E159DDA	1/2,TYPE L	1-1/2,TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	4
	KAV6E196DDA	3/4,TYPE L	2,TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	4
	KAV6E216DDA	3/4,TYPE L	2,TYPE L	SBF-B-C	SBF-B-C	SER-B	SER-C	6
	KAV6E270DDA	1,TYPE L	3,TYPE L	SBF-B-C	SBF-B-C	SER-B	SER-C	8
	KAV6E338DDA	1-1/2, TYPE L	3,TYPE L	SBF-B-C	SBF-C-C	SER-C	SER-C	8
6FPI - R455A	KAV6E053DDA	1/4,TYPE L	1/2,TYPE L	SBF-AA-C	SBF-AA-C	SER-AA	SER-A	2
	KAV6E066DDA	1/4,TYPE L	3/4,TYPE L	SBF-AA-C	SBF-AA-C	SER-AA	SER-A	2
	KAV6E105DDA	1/2,TYPE L	1,TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-A	2
	KAV6E131DDA	3/4,TYPE L	1-1/2, TYPE L	SBF-A-C	SBF-A-C	SER-A	SER-B	4
	KAV6E159DDA	3/4,TYPE L	1-1/2, TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	4
	KAV6E196DDA	3/4,TYPE L	2,TYPE L	SBF-A-C	SBF-B-C	SER-B	SER-B	4
	KAV6E216DDA	1,TYPE L	2,TYPE L	SBF-B-C	SBF-B-C	SER-B	SER-C	6
	KAV6E270DDA	1-1/2, TYPE L	2-1/2,TYPE L	SBF-B-C	SBF-B-C	SER-B	SER-C	8
	KAV6E338DDA	1-1/2, TYPE L	3,TYPE L	SBF-B-C	SBF-C-C	SER-C	SER-C	8

TXV Type: Externally Equalized (EXT)
For units with mounted TXV components, see nozzle/TXV table for distributor connection size when TXV is field supplied.

LOOSE COMPONENTS REQUIRED FOR A2L MITIGATION CONTROL // ELECTRIC DEFROST MODELS

Model No		Loose LLS @ Liquid Temp			Loose CSOV Mitigation CV	
		Size	50°F	100°F	Size	Description
6FPI - R454A	KAV6E053DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E066DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E105DDA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6E131DDA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6E159DDA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6E196DDA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6E216DDA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6E270DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6E338DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
6FPI - R454C	KAV6E053DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E066DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E105DDA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6E131DDA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6E159DDA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6E196DDA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6E216DDA	3/8	SSOV6S130	SSOV6S140	7/8	CSOV-7S
	KAV6E270DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6E338DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
6FPI - R455A	KAV6E053DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E066DDA	3/8	SSOV3S130	SSOV3S130	5/8	CSOV-5S
	KAV6E105DDA	3/8	SSOV3S130	SSOV3S130	7/8	CSOV-7S
	KAV6E131DDA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6E159DDA	3/8	SSOV3S130	SSOV6S130	7/8	CSOV-7S
	KAV6E196DDA	3/8	SSOV6S130	SSOV6S130	7/8	CSOV-7S
	KAV6E216DDA	3/8	SSOV6S130	SSOV6S140	7/8	CSOV-7S
	KAV6E270DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S
	KAV6E338DDA	1/2	SSOV6S140	SSOV6S140	1 1/8	CSOV-9S

Mitigation solenoid valve (SSOV) and mitigation suction line check valves (CSOV) operate as double duty mitigation controls for A2L leak mitigation system and are required to ship loose and be installed outside the refrigerated space.

Mitigation solenoid valve (SSOV) and mitigation suction line check valves (CSOV) are sized on a 1:1 condensing unit to evaporator ratio. Sizing assumes 100 ft line run, 10 ft vertical rise. Any design outside ofthese assumptions will require application support.

SPECIFICATIONS // AIR DEFROST MODELS

	Model No.	Fans	Refrigerant Connections		No. of Hanger Slot Locations	Dimensions (In.)				Approx. Weight (Lbs.)	
			KAV6A Liquid	KAV6A Suction		L	W	H	Figure	Net	Ship
6 FPI - KAV6A	KAV6A053*DA	1	3/8	5/8	4	36	28-3/8	13-3/4	1	60	195
	KAV6A066*DA	1	3/8	5/8	4	36	28-3/8	13-3/4	1	60	195
	KAV6A105*DA	2	3/8	7/8	6	56	28-3/8	13-3/4	2	80	215
	KAV6A 131*DA	2	3/8	7/8	6	56	28-3/8	13-3/4	2	80	215
	KAV6A159*DA	3	3/8	7/8	8	76	28-3/8	13-3/4	3	100	235
	KAV6A196*DA	3	3/8	7/8	8	76	28-3/8	13-3/4	3	100	235
	KAV6A216*DA	4	3/8	7/8	10	96	28-3/8	13-3/4	4	125	285
	KAV6A270*DA	4	1/2	1-1/8	10	96	28-3/8	13-3/4	4	125	285
	KAV6A338*DA	5	1/2	1-1/8	12	116	28-3/8	13-3/4	5	155	340

SPECIFICATIONS // ELECTRIC DEFROST MODELS

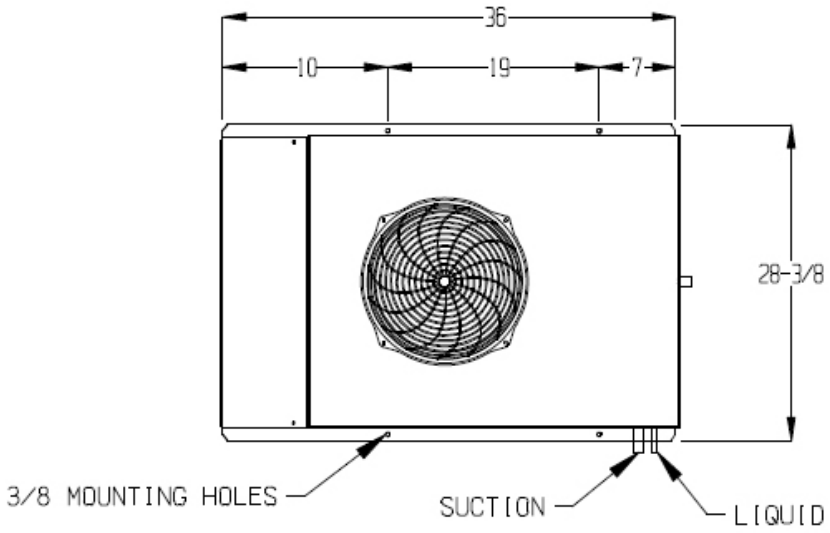
	Model No.	Fans	Refrigerant Connections		No. of Hanger Slot Locations	Dimensions (In.)				Approx. Weight (Lbs.)	
			KAV6E Liquid	KAV6E Suction		L	W	H	Figure	Net	Ship
6 FPI - KAV6E	KAV6E053DDA	1	3/8	5/8	4	36	28-3/8	13-3/4	1	60	195
	KAV6E066DDA	1	3/8	5/8	4	36	28-3/8	13-3/4	1	60	195
	KAV6E105DDA	2	3/8	7/8	6	56	28-3/8	13-3/4	2	80	215
	KAV6E131DDA	2	3/8	7/8	6	56	28-3/8	13-3/4	2	80	215
	KAV6E159DDA	3	3/8	7/8	8	76	28-3/8	13-3/4	3	100	235
	KAV6E196DDA	3	3/8	7/8	8	76	28-3/8	13-3/4	3	100	235
	KAV6E216DDA	4	3/8	7/8	10	96	28-3/8	13-3/4	4	125	285
	KAV6E270DDA	4	1/2	1-1/8	10	96	28-3/8	13-3/4	4	125	285
	KAV6E338DDA	5	1/2	1-1/8	12	116	28-3/8	13-3/4	5	155	340

* Astericks represents a variable character based on voltage ordered. See Nomenclature on page 3.
TXV Type: Externally Equalized.
For units with mounted TXV components, see nozzle/TXV table for distributor connection size when TXV is field supplied.

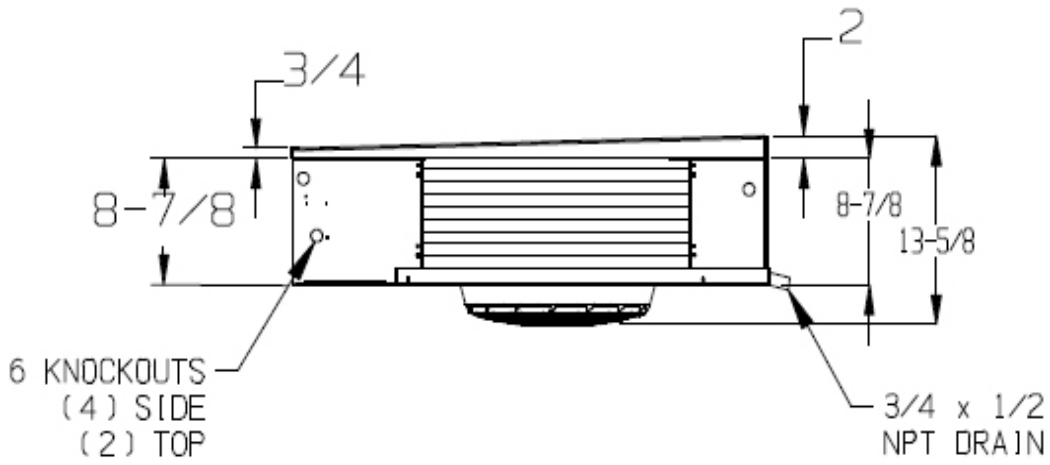
PHYSICAL DIMENSIONS

Figure 1 - Single Fan

Bottom View



Side View

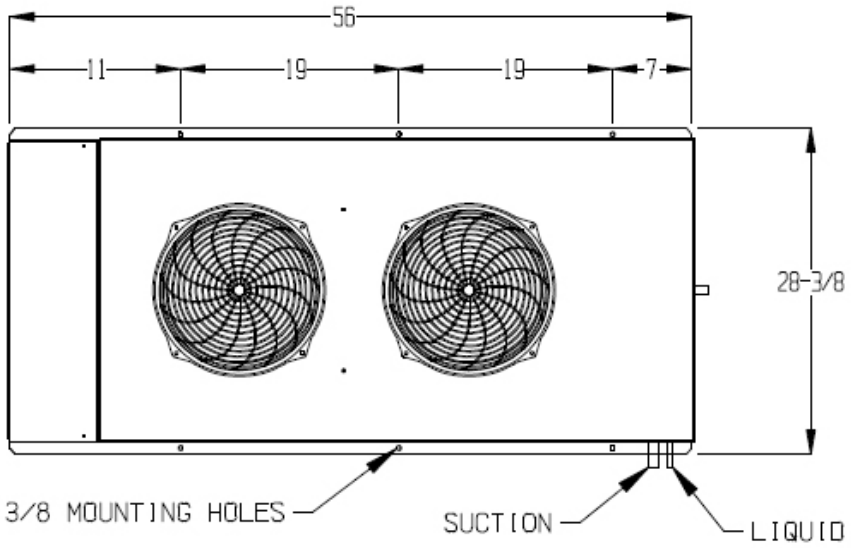


Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter.
Mounting holes on four and five fan units are located 20" on center at each tube sheet. All dimensions are in inches.

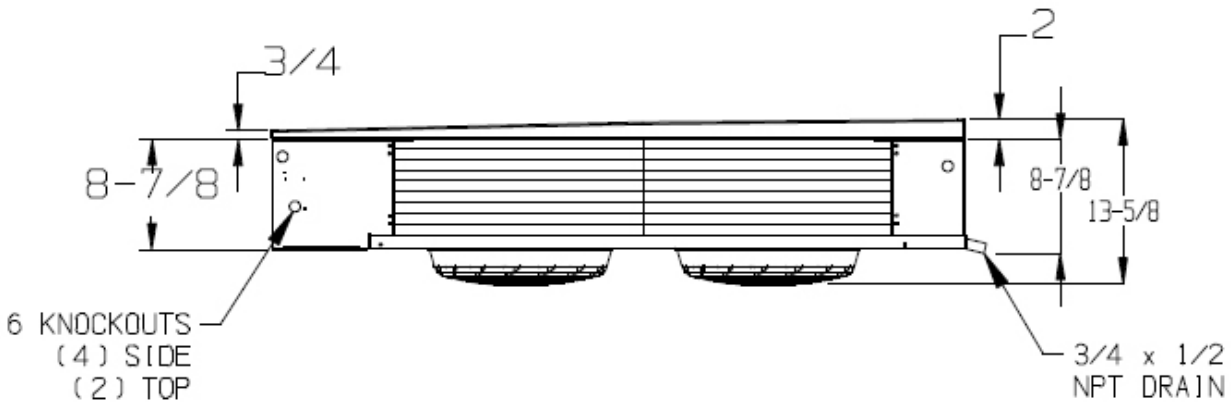
PHYSICAL DIMENSIONS

Figure 2 - Two Fan

Bottom View



Side View

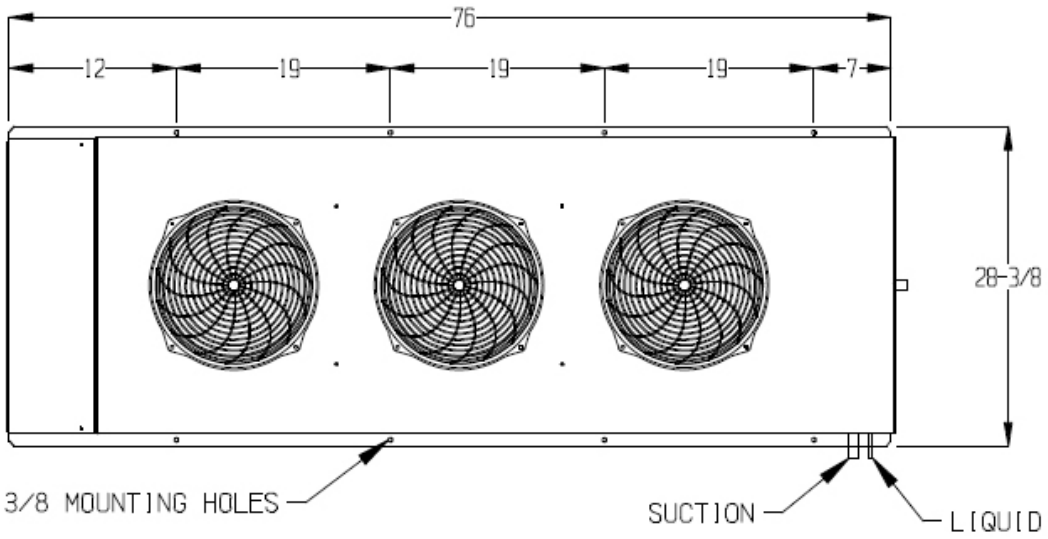


Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter.
Mounting holes on four and five fan units are located 20" on center at each tube sheet. All dimensions are in inches.

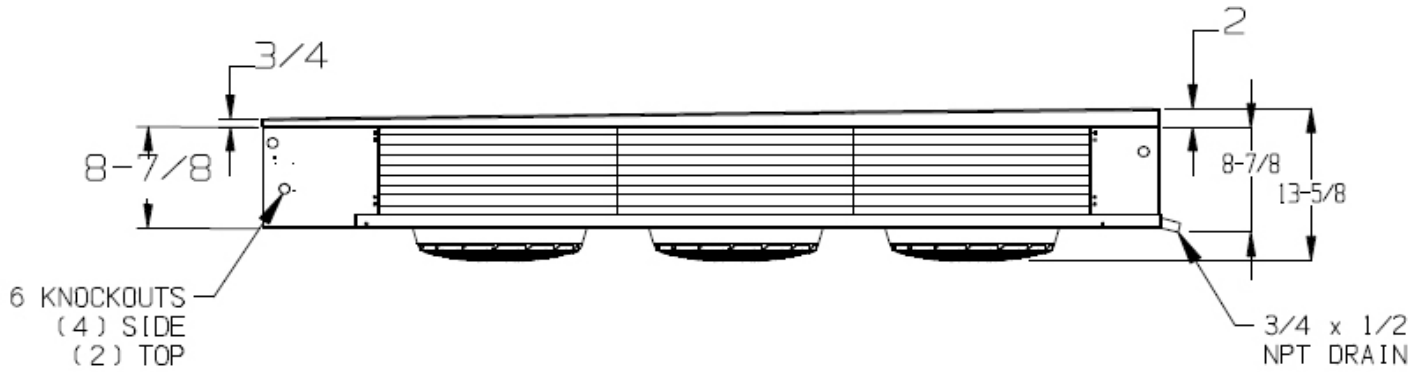
PHYSICAL DIMENSIONS

Figure 3 - Three Fan

Bottom View



Side View

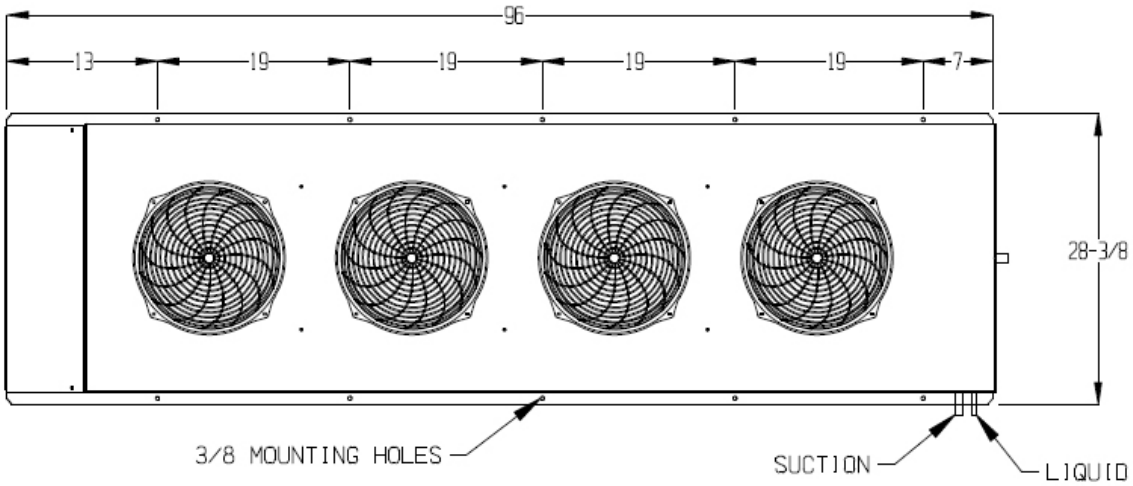


Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter.
Mounting holes on four and five fan units are located 20" on center at each tube sheet. All dimensions are in inches.

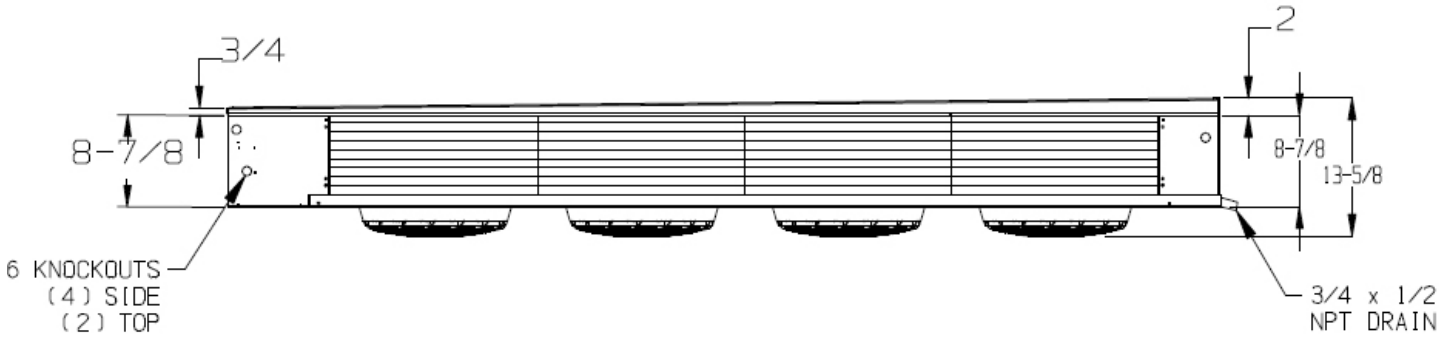
PHYSICAL DIMENSIONS

Figure 4 - Four Fan

Bottom View



Side View

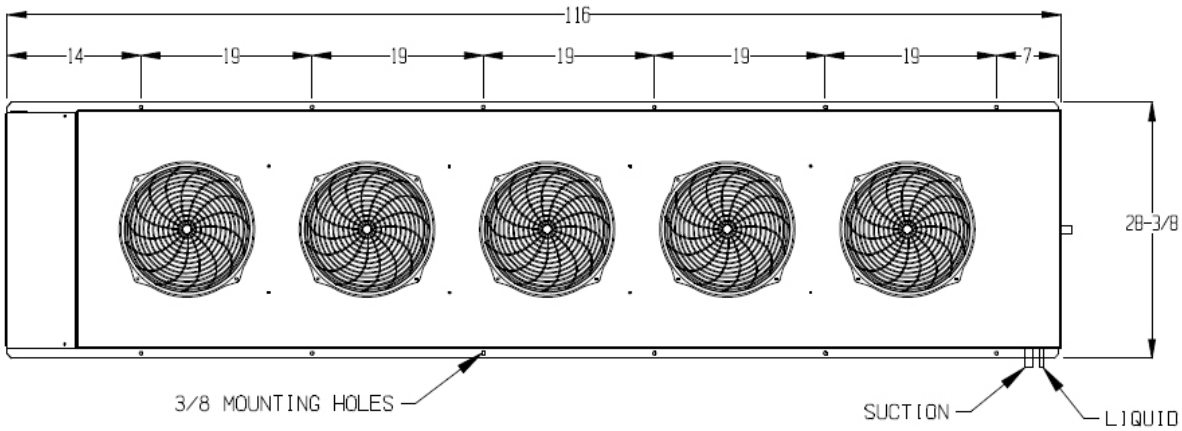


Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter.
Mounting holes on four and five fan units are located 20" on center at each tube sheet. All dimensions are in inches.

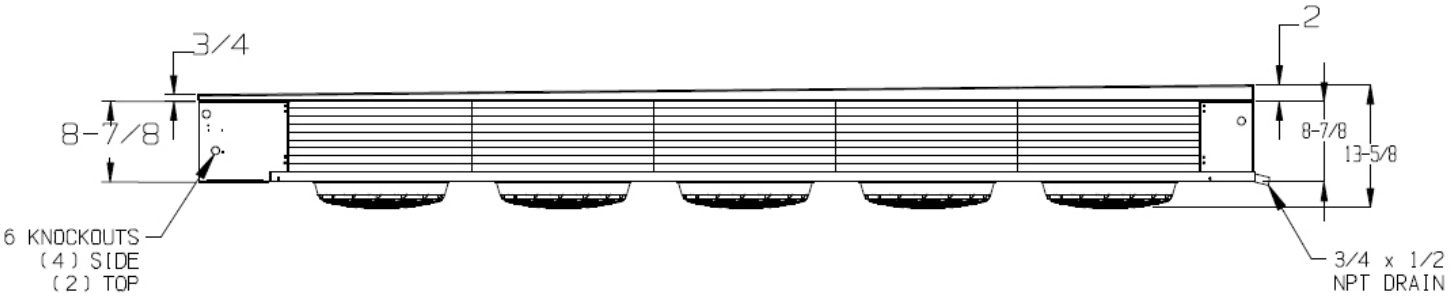
PHYSICAL DIMENSIONS

Figure 5 - Five Fan

Bottom View



Side View



Measurements noted on the end view drawing are the same for all units. All mounting holes are 3/8" diameter.
Mounting holes on four and five fan units are located 20" on center at each tube sheet. All dimensions are in inches.

AWEF RATINGS // COOLER MODELS

EVAPORATOR APPLICATION RATINGS

Multiple conditions combine to determine the application capacity of an evaporator. Walk-in space temperature, relative humidity, saturated suction temperature difference, and outdoor ambient temperature. All of the factors are considered when calculating an evaporator application rating. These ratings are considerably higher than the net capacity value used for DOE ratings (AWEF).

The AWEF of an evaporator is calculated using the dry coil capacity and the daily evaporator power consumption. Power consumption included fan and defrost power. Evaporator net capacity reported to the DOE database is dry coil capacity less the full power fan watts. DOE test conditions are at 10°F evaporator/SST temperature difference and less than 50% relative humidity and 96°F liquid temperature. These conditions create a uniform test method, but should not be used for equipment selection. The equipment selected would be too large for the application.

Published application ratings are a guideline for proper equipment selection. They account for true operating conditions experienced by equipment.

Department of Energy Walk-in Energy factor (AWEF) Ratings

COOLER MODELS

Base Model No.	Defrost Type	FPI	AWEF
KAV6A053*DA	Air Defrost	6	9.00
KAV6A066*DA	Air Defrost	6	9.00
KAV6A105*DA	Air Defrost	6	9.00
KAV6A 131*DA	Air Defrost	6	9.00
KAV6A159*DA	Air Defrost	6	9.00
KAV6A196*DA	Air Defrost	6	9.00
KAV6A216*DA	Air Defrost	6	9.00
KAV6A270*DA	Air Defrost	6	9.00
KAV6A338*DA	Air Defrost	6	9.00

Department of Energy Walk-in Energy factor (AWEF) Ratings

COOLER MODELS

Base Model No.	Defrost Type	FPI	AWEF
KAV6E053DDA	Electric	6	9.00
KAV6E066DDA	Electric	6	9.00
KAV6E105DDA	Electric	6	9.00
KAV6E131DDA	Electric	6	9.00
KAV6E159DDA	Electric	6	9.00
KAV6E196DDA	Electric	6	9.00
KAV6E216DDA	Electric	6	9.00
KAV6E270DDA	Electric	6	9.00
KAV6E338DDA	Electric	6	9.00

*Each asterisk represents a variable character based on voltage ordered. See page 3 for nomenclature.
Models were designed in anticipation of the July 2020 Department of Energy AWEF regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See above for AWEF compliance ratings.

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