



A1 CENTER MOUNT UNIT COOLER



Walk-Ins: Small to Medium Cooler and Freezer Applications

Air Defrost

4,100 to 30,400 BTUH

Electric Defrost

3,700 to 32,400 BTUH



FEATURES

Center Mount Unit Coolers are designed for use in walk-in coolers and freezers with very low headroom clearance. Units mount flush to the ceiling to provide extra storage space. Features include two-way air flow to provide 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 3,700 to 32,400 BTUH at a 10° TD. One through five fan models are available with air flow spanning a range of 572 to 3,150 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. Medium temperature models are available with 6 fins per inch (FPI) and low temperature models with 6 FPI and 4 FPI. Sweat connections are standard on all models.

MOTORS

Standard models feature highly efficient Dual Speed Electronically Commutated (EC) motors. 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

Center Mount Unit Coolers are optimized for multiple refrigerants including R404A*, R407A, R448A, R449A and R744 DX (CO₂). Please specify refrigerant requirements when ordering. A separate compartment is provided for all refrigerant connections which allows ample room for internal mounting of expansion valves.

* High GWP refrigerant. Available for repair and replacement only.

ELECTRICAL

Available for 115V and 208/230V. All components are factory wired to terminal strips and are UL and cUL listed.

AIR DEFROST

Air Defrost models are designed for use in coolers down to 35°F.

ELECTRIC DEFROST

Electric Defrost 6 FPI models are designed for use in coolers and freezers down to -10°F and 4 FPI models are designed for use in freezers between 32°F to -10°F.

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)
- Liquid Line Solenoid Available Loose for field installation
- Insulated Drain Pan
- Painted Cabinet (White or Black)
- Stainless Steel Cabinet
- Coated Coil (Rust proof, FinKOTE2, or Electrofin®)
- Heat Exchanger (loose)

MODEL NOMENCLATURE

R	E	6	A	041	A	D	A
Brand	Style	Fins per Inch (FPI)	Defrost Type	BTUH in Thousands	Unit Voltage ¹	Motor Type	Vintage
R = Russell	Center Mount	4/6	A = Air E = Electric		A = 115/1/60 D = 208-230/1/60	D = Dual Speed EC	

EcoNet Control Package includes: EEV; suction pressure transducer; suction, entering air coil temp. thermistors; local onboard 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.)

EcoNet approved refrigerants are: R404A, R407A, R407C, R448A, R449A/B.

¹ 50 Hz available. Contact Factory for additional information.

APPLICATION RATING & ELECTRICAL DATA

AIR DEFROST MODELS // 6 FPI

Model No.	BTUH Capacity @ +25°F & 10°F TD		CFM	No. of Fans	Total Fan Amps†		115V/208-230V			
	R404A	R407A/R448/R449A/B^			115V	208-230V	Base Model		EcoNet Enabled†	
							MCA	MOPD	MCA	MOPD
RE6A041*DA	4,100	4,900	572	1	0.8	0.5	15.0	20	15.0	20
RE6A070*DA	7,000	8,200	1,204	2	1.6	1.0	15.0	20	15.0	20
RE6A084*DA	8,400	9,900	1,144	2	1.6	1.0	15.0	20	15.0	20
RE6A104*DA	10,400	12,300	1,806	3	2.4	1.5	15.0	20	15.0	20
RE6A128*DA	12,800	15,100	1,716	3	2.4	1.5	15.0	20	15.0	20
RE6A141*DA	14,100	16,600	2,408	4	3.2	2.0	15.0	20	15.0	20
RE6A169*DA	16,900	19,900	2,288	4	3.2	2.0	15.0	20	15.0	20
RE6A204*DA	20,400	23,900	2,860	5	4.0	2.5	15.0	20	15.0	20
RE6A258*DA	25,800	30,400	3,150	5	4.0	2.5	15.0	20	15.0	20

Consult Factory for 50Hz Operation

* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.

[^] Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C.

[†] EcoNet Enabled units include 2 amps for 208-230/1 control circuit, when required.

[†] Dual-speed EC motors are compliant with California Title 24 regulations.

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 page 15 for AWEF compliance ratings.

APPLICATION RATING & ELECTRICAL DATA

ELECTRIC DEFROST MODELS // 6 FPI

Model No.	BTUH Capacity -10°F SST & 10°F TD		CFM	No. of Fans	Total Fan Amps EC Motors†					Heater Amps	Heater Watts
						Base Model		EcoNet Enabled¹			
	R404A	R407A/ R448/ R449A/B²				MCA	MOPD	MCA	MOPD		
RE6E037DDA	3,700	4,300	602	1	0.5	15.0	20	15.0	20	3.2	750
RE6E045DDA	4,500	5,200	572	1	0.5	15.0	20	15.0	20	3.2	750
RE6E075DDA	7,500	8,700	1,204	2	1.0	15.0	20	15.0	20	6.5	1,500
RE6E089DDA	8,900	10,300	1,144	2	1.0	15.0	20	15.0	20	6.5	1,500
RE6E108DDA	10,800	12,400	1,806	3	1.5	15.0	20	15.0	20	9.8	2,250
RE6E125DDA	12,500	14,300	1,716	3	1.5	15.0	20	15.0	20	9.8	2,250
RE6E137DDA	13,700	15,400	2,408	4	2.0	15.0	20	15.0	20	13.0	3,000
RE6E182DDA	18,200	20,900	2,288	4	2.0	15.0	20	15.0	20	13.0	3,000
RE6E221DDA	22,100	25,500	2,860	5	2.5	15.0	20	18.3	20	16.3	3,750
RE6E278DDA	27,800	32,400	3,150	5	2.5	15.0	20	26.4	30	24.4	5,620

ELECTRIC DEFROST MODELS // 4 FPI

Model No.	BTUH Capacity -10°F SST & 10°F TD		CFM	No. of Fans	Total Fan Amps EC Motors [†]					Heater Amps	Heater Watts
						Base Model		EcoNet Enabled ¹			
	R404A	R407A/ R448/ R449A/B [^]				MCA	MOPD	MCA	MOPD		
RE4E037DDA	3,700	4,300	572	1	0.5	15.0	20	15.0	20	3.2	750
RE4E075DDA	7,500	8,700	1,144	2	1.0	15.0	20	15.0	20	3.2	750
RE4E107DDA	10,700	12,200	1,716	3	1.5	15.0	20	15.0	20	6.5	1,500
RE4E149DDA	14,900	17,600	2,288	4	2.0	15.0	20	15.0	20	13.0	3,000
RE4E186DDA	18,600	21,300	2,860	5	2.5	15.0	20	18.3	20	16.3	3,750
RE4E234DDA	23,400	27,200	3,150	5	2.5	15.0	20	26.4	30	24.4	5,620

Consult Factory for 50Hz Operation

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

[^] Refrigerants with large glides are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.

[†] Dual-speed EC motors are compliant with California Title 24 regulations.

¹ EcoNet Enabled units are not powered by condensing unit so Defrost Heaters are incorporated into shown MCA/MOPD.

¹ EcoNet Enabled units include 2 amps for 208-230/1 control circuit.

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 below for AWEF compliance ratings.

Capacity Correction for Electric Defrost Evaporators				
SST (Dew)	20°F	0°F	-10°F	-20°F
Multiply Capacity by:	1.075	1.0375	1	0.09625

Adjust Capacities based on S.S.T using correction factors above.

DISTRIBUTOR NOZZLES & EXPANSION VALVES

ELECTRIC DEFROST MODELS // 6 FPI

Model No.		Nozzle @ Liq. Temp.		TXV [^] @ Liq. Temp.		EEV @ Liq. Temp.		No. of Circuits
		50°F	100°F	50°F	100°F	50°F	100°F	
R404A	RE6A041*DA	L, #1/6	L, #1/2	SBFSE-AA-C	SBFSE-AA-C	SER-AA	SER-AA	2
	RE6A070*DA	L, #1/4	L, #3/4	SBFSE-AA-C	SBFSE-A-C	SER-A	SER-A	2
	RE6A084*DA	L, #1/4	L, #3/4	SBFSE-A-C	SBFSE-A-C	SER-A	SER-B	2
	RE6A104*DA	L, #1/3	L, #1	SBFSE-A-C	SBFSE-A-C	SER-A	SER-B	4
	RE6A128*DA	L, #1/2	L, #1/2	SBFSE-A-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A141*DA	L, #1/2	L, #1/2	SBFSE-A-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A169*DA	L, #3/4	L, #2	SBFSE-A-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A204*DA	L, #3/4	L, #2	SBFSE-B-C	SBFSE-C-C	SER-B	SER-C	4
	RE6A258*DA	L, #3/4	L, #2-1/2	SBFSE-B-C	SBFSE-C-C	SER-B	SER-C	6
407A/R448A/R449A/B [†]	RE6A041*DA	L, #1/6	L, #1/2	SBFSE-AA-C	SBFSE-AA-C	SER-AA	SER-AA	2
	RE6A070*DA	L, #1/4	L, #3/4	SBFSE-AA-C	SBFSE-A-C	SER-A	SER-A	2
	RE6A084*DA	L, #1/3	L, #3/4	SBFSE-AA-C	SBFSE-A-C	SER-A	SER-A	2
	RE6A104*DA	L, #1/2	L, #1	SBFSE-A-C	SBFSE-A-C	SER-A	SER-B	4
	RE6A128*DA	L, #1/2	L, #1-1/2	SBFSE-A-C	SBFSE-A-C	SER-A	SER-B	4
	RE6A141*DA	L, #1/2	L, #1-1/2	SBFSE-A-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A169*DA	L, #3/4	L, #1-1/2	SBFSE-A-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A204*DA	L, #3/4	L, #2	SBFSE-B-C	SBFSE-B-C	SER-B	SER-B	4
	RE6A258*DA	L, #1	L, #2-1/2	SBFSE-B-C	SBFSE-C-C	SER-B	SER-C	6

* Asterisk represents a variable character based on motor ordered. See nomenclature page for details.

Distributor lines are 3/16" diameter and 18" long. Distributor connection size is 1/2" for all Air Defrost models.

[^] TXV selections for Air Defrost models are based on +25°F suction temp., 8°F to 12°F evaporator TD. TXV selections for Electric Defrost models are based on -10°F suction temp., 8°F to 12°F evaporator TD. Contact factory for operating conditions outside of this range.

[†] SBFDE expansion valves are compatible with R407A, R448A and R449A/B. For other refrigerants, follow manufacturer's selection guidelines. If unit is not configured with a factory installed TXV, unit will include shipped-loose nozzles sized for 100°F liquid temperature.

DISTRIBUTOR NOZZLES & EXPANSION VALVES

ELECTRIC DEFROST MODELS // 6 FPI

Model No.		Nozzle @ Liq. Temp.		TXV [^] @ Liq. Temp.		EEV @ Liq. Temp.		No. of Circuits
		50°F	100°F	50°F	100°F	50°F	100°F	
R404A	RE6E037DDA	L, #1/4	L, #3/4	SBFSE-AA-ZP	SBFSE-AA-ZP	SER-AA	SER-AA	2
	RE6E045DDA	L, #1/3	L, #3/4	SBFSE-AA-ZP	SBFSE-AA-ZP	SER-AA	SER-A	2
	RE6E075DDA	L, #3/4	L, #1-1/2	SBFSE-A-ZP	SBFSE-A-ZP	SER-A	SER-A	4
	RE6E089DDA	L, #3/4	L, #1-1/2	SBFSE-A-ZP	SBFSE-A-ZP	SER-A	SER-B	4
	RE6E108DDA	L, #1	L, #2	SBFSE-A-ZP	SBFSE-B-ZP	SER-A	SER-B	4
	RE6E125DDA	L, #1	L, #2	SBFSE-A-ZP	SBFSE-B-ZP	SER-A	SER-B	4
	RE6E137DDA	L, #1	L, #2-1/2	SBFSE-A-ZP	SBFSE-B-ZP	SER-B	SER-B	4
	RE6E182DDA	L, #1-1/2	L, #3	SBFSE-B-ZP	SBFSE-C-ZP	SER-B	SER-B	8
	RE6E221DDA	L, #2	L, #4	SBFSE-B-ZP	SBFSE-C-ZP	SER-B	SER-C	8
	RE6E278DDA	G, #2	G, #5	SBFSE-C-ZP	SBFSE-C-ZP	SER-C	SER-C	12
R407A/R448A/R449A/B [†]	RE6E037DDA	L, #1/4	L, #1/2	SBFDE-AA-ZP	SBFDE-AA-ZP	SER-AA	SER-AA	2
	RE6E045DDA	L, #1/3	L, #3/4	SBFDE-AA-ZP	SBFDE-AA-ZP	SER-AA	SER-AA	2
	RE6E075DDA	L, #3/4	L, #1	SBFDE-A-ZP	SBFDE-A-ZP	SER-A	SER-A	4
	RE6E089DDA	L, #3/4	L, #1-1/2	SBFDE-A-ZP	SBFDE-B-ZP	SER-A	SER-A	4
	RE6E108DDA	L, #3/4	L, #1-1/2	SBFDE-A-ZP	SBFDE-B-ZP	SER-A	SER-A	4
	RE6E125DDA	L, #1	L, #2	SBFDE-A-ZP	SBFDE-B-ZP	SER-A	SER-B	4
	RE6E137DDA	L, #1	L, #2	SBFDE-B-ZP	SBFDE-B-ZP	SER-A	SER-B	4
	RE6E182DDA	L, #1-1/2	L, #2-1/2	SBFDE-B-ZP	SBFDE-C-ZP	SER-B	SER-B	8
	RE6E221DDA	L, #1-1/2	L, #3	SBFDE-B-ZP	SBFDE-C-ZP	SER-B	SER-C	8
	RE6E278DDA	G, #2	L, #4	SBFDE-C-ZP	SBFDE-C-ZP	SER-B	SER-C	12

ELECTRIC DEFROST MODELS // 4 FPI

Model No.		Nozzle @ Liq. Temp.		TXV [^] @ Liq. Temp.		EEV @ Liq. Temp.		No. of Circuits
		50°F	100°F	50°F	100°F	50°F	100°F	
R404A	RE4E037DDA	L, #1/4	L, #3/4	SBFSE-AA-ZP	SBFSE-AA-ZP	SER-AA	SER-AA	2
	RE4E075DDA	L, #3/4	L, #1-1/2	SBFSE-A-ZP	SBFSE-A-ZP	SER-A	SER-A	4
	RE4E107DDA	L, #3/4	L, #2	SBFSE-A-ZP	SBFSE-B-ZP	SER-A	SER-B	4
	RE4E149DDA	L, #1-1/2	L, #2-1/2	SBFSE-A-ZP	SBFSE-B-ZP	SER-B	SER-B	8
	RE4E186DDA	L, #2	L, #3	SBFSE-B-ZP	SBFSE-C-ZP	SER-B	SER-C	8
	RE4E234DDA	G, #2	G, #4	SBFSE-C-ZP	SBFSE-C-ZP	SER-B	SER-C	12
R407A/R448A/R449A/B [†]	RE4E037DDA	L, #1/4	L, #1/2	SBFDE-AA-ZP	SBFDE-AA-ZP	SER-AA	SER-AA	2
	RE4E075DDA	L, #3/4	L, #1	SBFDE-A-ZP	SBFDE-A-ZP	SER-A	SER-A	4
	RE4E107DDA	L, #3/4	L, #1-1/2	SBFDE-A-ZP	SBFDE-B-ZP	SER-A	SER-B	4
	RE4E149DDA	L, #1-1/2	L, #2-1/2	SBFDE-B-ZP	SBFDE-B-ZP	SER-B	SER-B	8
	RE4E186DDA	L, #1-1/2	L, #2-1/2	SBFDE-B-ZP	SBFDE-C-ZP	SER-B	SER-B	8
	RE4E234DDA	G, #2	G, #4	SBFDE-C-ZP	SBFDE-C-ZP	SER-B	SER-C	12

Distributor lines are 3/16" diameter and 18" long.

Distributor connection size is 1/2" for all Electric Defrost models with "L" nozzle and 7/8" for models with "G" nozzle.

[^] TXV selections for Air Defrost models are based on +25°F suction temp., 8°F to 12°F evaporator TD. TXV selections for Electric Defrost models are based on -10°F suction temp., 8°F to 12°F evaporator TD. Contact factory for operating conditions outside of this range.

[†] SBFDE expansion valves are compatible with R407A, R448A and R449A/B. For other refrigerants, follow manufacturer's selection guidelines. If unit is not configured with a factory installed TXV, unit will include shipped-loose nozzles sized for 100°F liquid temperature.

SPECIFICATIONS // ALL MODELS

AIR DEFROST MODELS // 6 FPI

Model No.	TXV Type	Refrigerant Connections		No. of Hanger Slot Locations	Dimensions (in.)				Approx Weight (Lbs.)	
		Liquid Line ¹	Suction		L	W	H	Figure	Net	Ship
RE6A041*DA	External	3/8	5/8	2	32	28-3/8	11-1/4	1	55	190
RE6A070*DA	External	3/8	5/8	3	52	28-3/8	11-1/4	2	75	210
RE6A084*DA	External	3/8	5/8	3	52	28-3/8	11-1/4	2	80	215
RE6A104*DA	External	3/8	5/8	4	72	28-3/8	11-1/4	3	95	230
RE6A128*DA	External	3/8	7/8	4	72	28-3/8	11-1/4	3	105	240
RE6A141*DA	External	3/8	7/8	5	92	28-3/8	11-1/4	4	120	280
RE6A169*DA	External	3/8	7/8	5	92	28-3/8	11-1/4	4	130	290
RE6A204*DA	External	3/8	1-1/8	6	112	28-3/8	11-1/4	5	145	330
RE6A258*DA	External	3/8	1-1/8	6	112	28-3/8	13-3/4	6	155	340

ELECTRIC DEFROST MODELS // 6 FPI

Model No.	TXV Type	Refrigerant Connections		No. of Hanger Slot Locations	Dimensions (in.)				Approx Weight (Lbs.)	
		Liquid Line ¹	Suction		L	W	H	Figure	Net	Ship
RE6E037DDA	External	3/8	5/8	2	32	28-3/8	11-1/4	1	50	185
RE6E045DDA	External	3/8	5/8	2	32	28-3/8	11-1/4	1	55	190
RE6E075DDA	External	3/8	5/8	3	52	28-3/8	11-1/4	2	75	210
RE6E089DDA	External	3/8	5/8	3	52	28-3/8	11-1/4	2	80	215
RE6E108DDA	External	3/8	7/8	4	72	28-3/8	11-1/4	3	95	230
RE6E125DDA	External	3/8	7/8	4	72	28-3/8	11-1/4	3	105	240
RE6E137DDA	External	3/8	1-1/8	5	92	28-3/8	11-1/4	4	120	280
RE6E182DDA	External	3/8	1-1/8	5	92	28-3/8	11-1/4	4	130	290
RE6E221DDA	External	3/8	1-1/8	6	112	28-3/8	11-1/4	5	145	330
RE6E278DDA	External	3/8	1-1/8	6	112	28-3/8	13-1/4	6	155	340

ELECTRIC DEFROST MODELS // 4 FPI

Model No.	TXV Type	Refrigerant Connections		No. of Hanger Slot Locations	Dimensions (in.)				Approx Weight (Lbs.)	
		Liquid Line ¹	Suction		L	W	H	Figure	Net	Ship
RE4E037DDA	External	3/8	5/8	2	32	28-3/8	11-1/4	1	50	185
RE4E075DDA	External	3/8	5/8	3	32	28-3/8	11-1/4	2	55	190
RE4E107DDA	External	3/8	5/8	4	52	28-3/8	11-1/4	3	75	210
RE4E149DDA	External	3/8	1-1/8	5	92	28-3/8	11-1/4	4	130	290
RE4E186DDA	External	3/8	1-1/8	6	112	28-3/8	11-1/4	5	145	330
RE4E234DDA	External	3/8	1-1/8	6	112	28-3/8	13-1/4	6	155	340

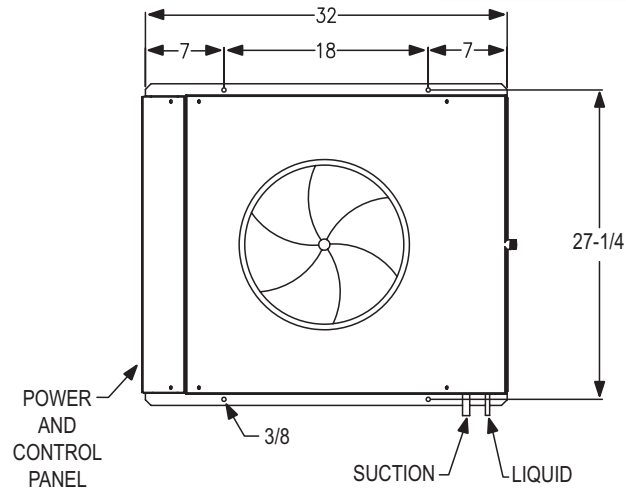
* Asterisk represents a variable character based on voltage ordered. See nomenclature page for details.

¹ For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.

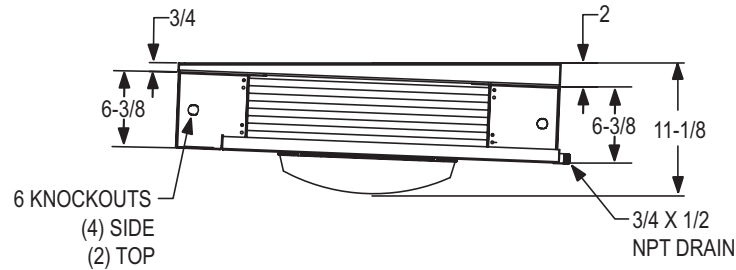
DIMENSIONAL DRAWINGS

Figure 1 - Single Fan

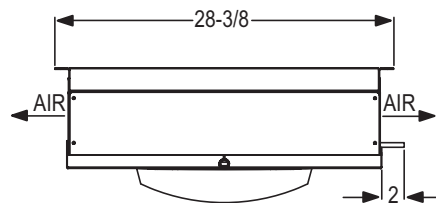
Bottom View



Side View



End View

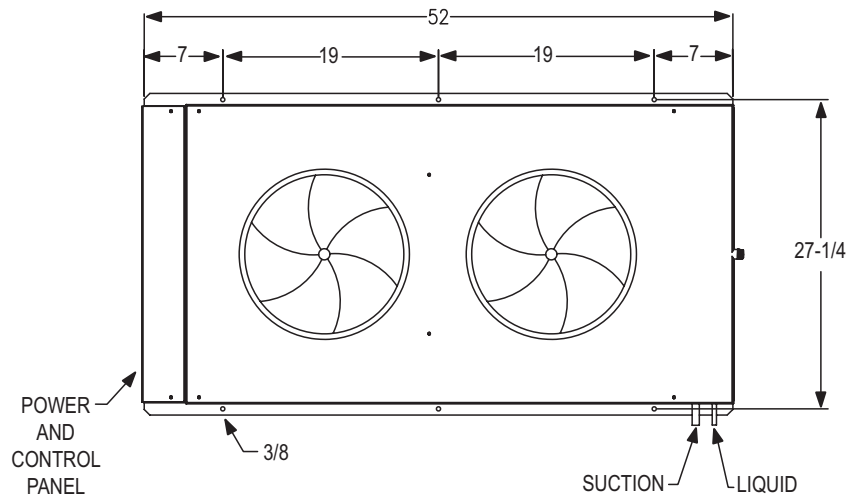


Measurements noted on the end view drawing are the same for all units.
 All mounting holes are 3/8" diameter.
 All dimensions are in inches.

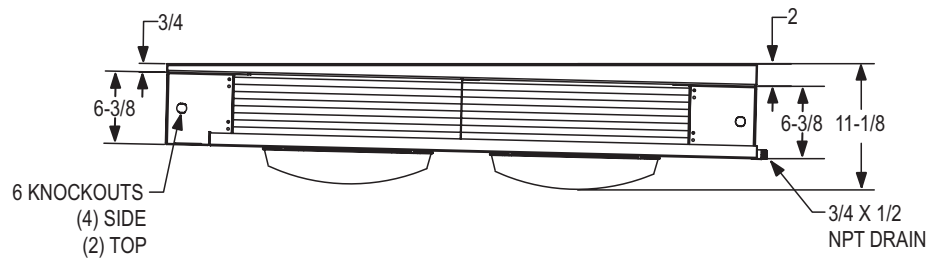
DIMENSIONAL DRAWINGS

Figure 2 - Two Fan

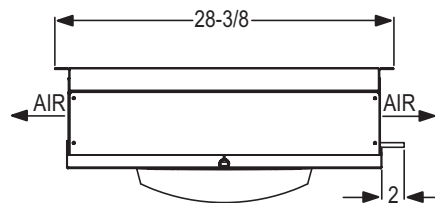
Bottom View



Side View



End View

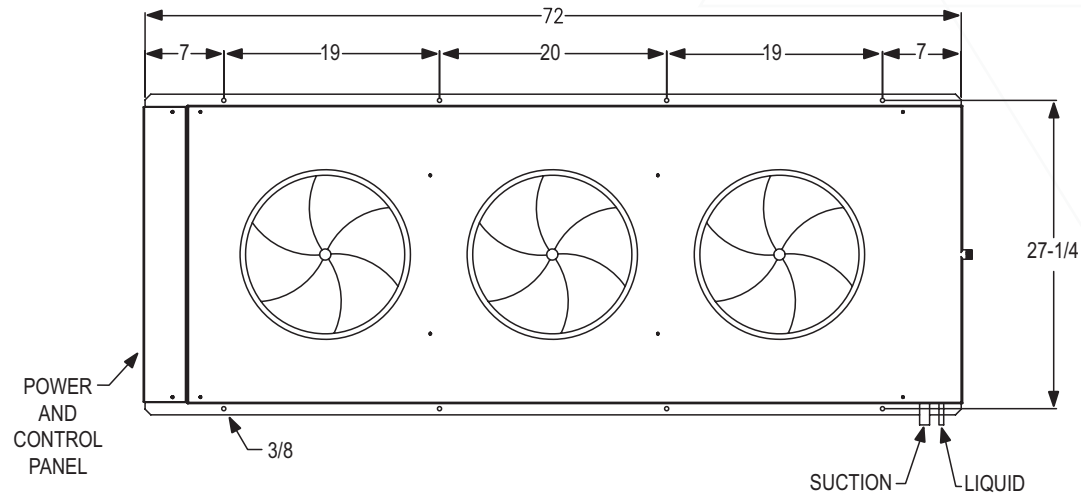


Measurements noted on the end view drawing are the same for all units.
All mounting holes are 3/8" diameter.
All dimensions are in inches.

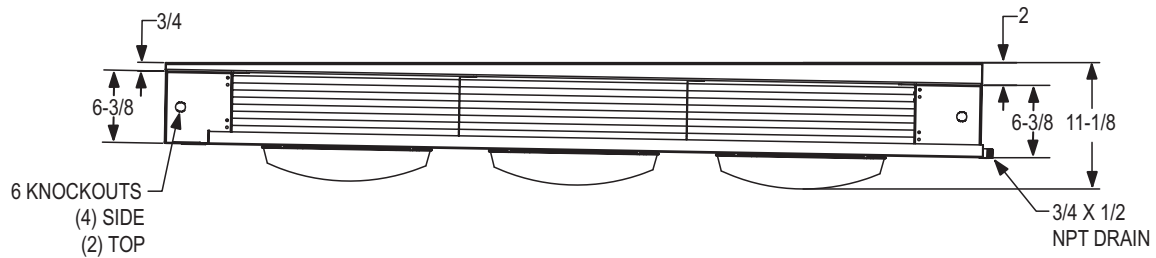
DIMENSIONAL DRAWINGS

Figure 3 - Three Fan

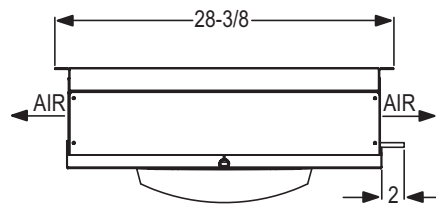
Bottom View



Side View



End View

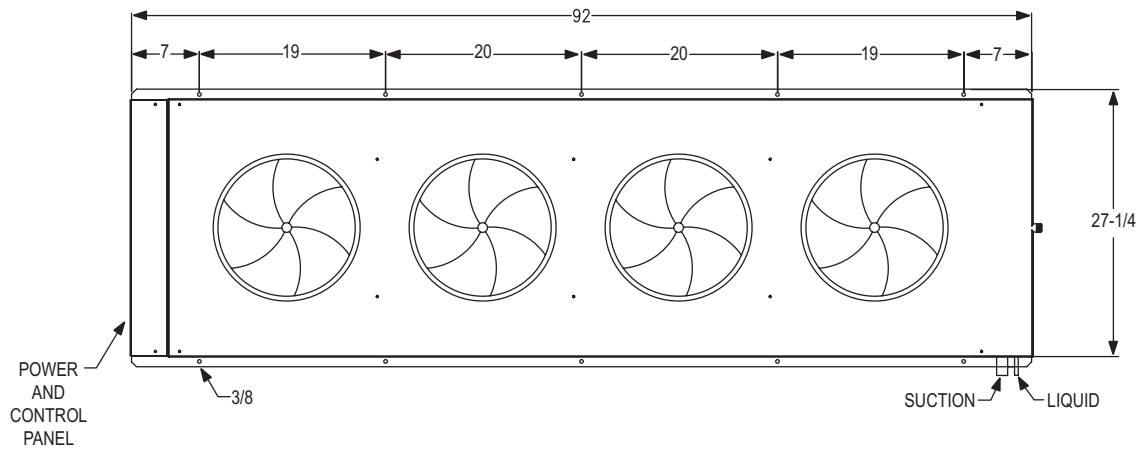


Measurements noted on the end view drawing are the same for all units.
 All mounting holes are 3/8" diameter.
 All dimensions are in inches.

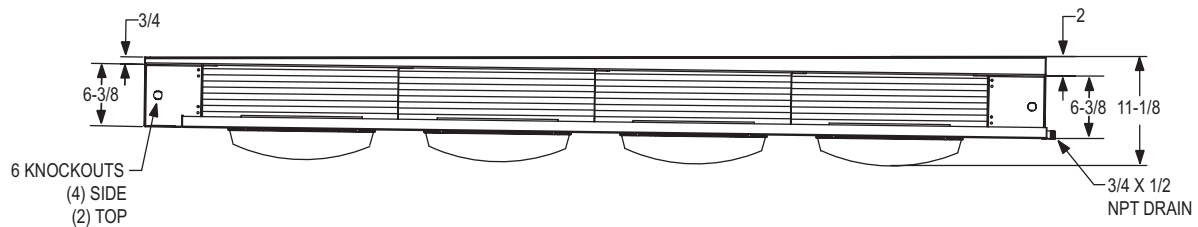
DIMENSIONAL DRAWINGS

Figure 4 - Four Fan

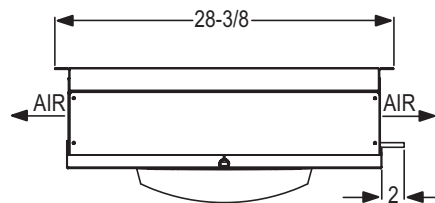
Bottom View



Side View



End View



Measurements noted on the end view drawing are the same for all units.

All mounting holes are 3/8" diameter.

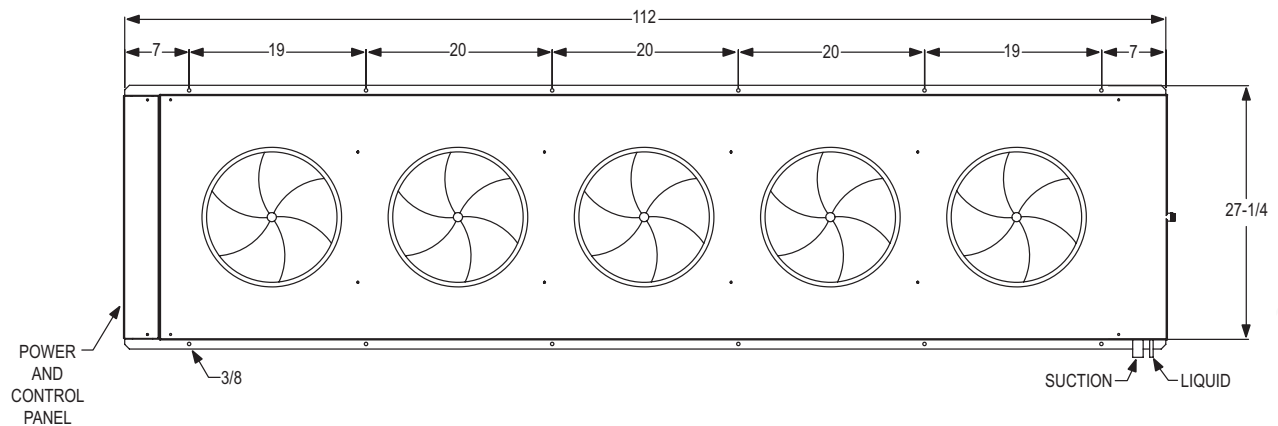
Mounting holes on four and five fan units are located 20" on center at each tube sheet.

All dimensions are in inches.

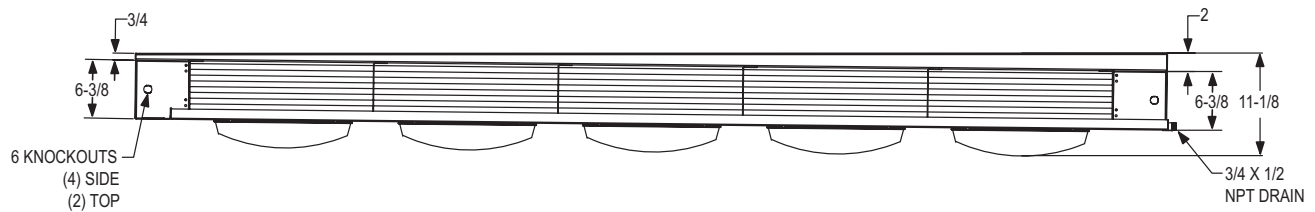
DIMENSIONAL DRAWINGS

Figure 5 - Five Fan

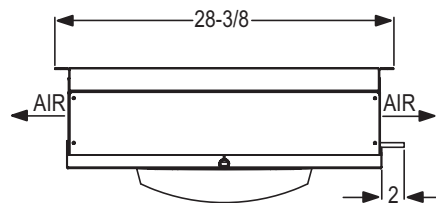
Bottom View



Side View



End View



Measurements noted on the end view drawing are the same for all units.

All mounting holes are 3/8" diameter.

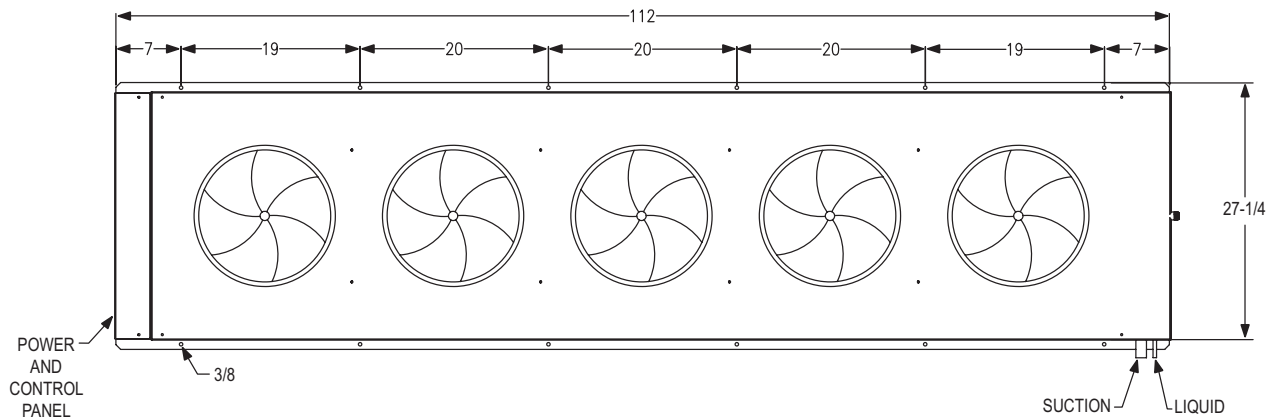
Mounting holes on four and five fan units are located 20" on center at each tube sheet.

All dimensions are in inches.

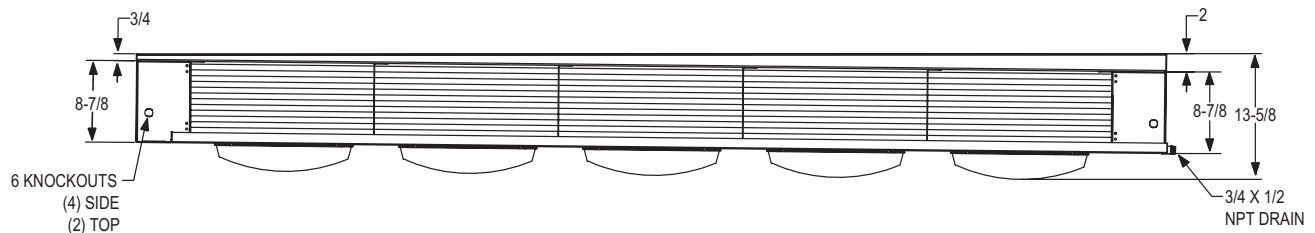
DIMENSIONAL DRAWINGS

Figure 6 - Five Fan Tall

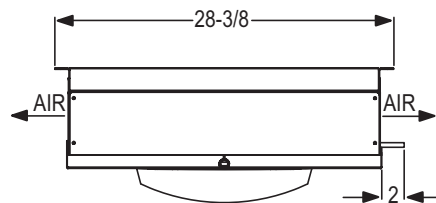
Bottom View



Side View



End 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.

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 ANNUAL WALK-IN ENERGY FACTOR (AWEF) RATINGS COOLER AND FREEZER MODELS

Cooler Models ¹			
Model No.	Defrost Type	FPI	AWEF
RE6A041*DA	Air Defrost	6	9.00
RE6A070*DA	Air Defrost	6	9.00
RE6A084*DA	Air Defrost	6	9.00
RE6A104*DA	Air Defrost	6	9.00
RE6A128*DA	Air Defrost	6	9.00
RE6A141*DA	Air Defrost	6	9.00
RE6A169*DA	Air Defrost	6	9.00
RE6A204*DA	Air Defrost	6	9.00
RE6A258*DA	Air Defrost	6	9.00
RE6E037DDA	Electric Defrost	6	9.00
RE6E045DDA	Electric Defrost	6	9.00
RE6E075DDA	Electric Defrost	6	9.00
RE6E089DDA	Electric Defrost	6	9.00
RE6E108DDA	Electric Defrost	6	9.00
RE6E125DDA	Electric Defrost	6	9.00
RE6E137DDA	Electric Defrost	6	9.00
RE6E182DDA	Electric Defrost	6	9.00
RE6E221DDA	Electric Defrost	6	9.00
RE6E278DDA	Electric Defrost	6	9.00

Freezer Models ²			
Model No.	Defrost Type	FPI	AWEF
RE6E037DDA	Electric Defrost	6	4.15
RE6E045DDA	Electric Defrost	6	4.15
RE6E075DDA	Electric Defrost	6	4.15
RE6E089DDA	Electric Defrost	6	4.15
RE6E108DDA	Electric Defrost	6	4.15
RE6E125DDA	Electric Defrost	6	4.15
RE6E137DDA	Electric Defrost	6	4.15
RE6E182DDA	Electric Defrost	6	4.15
RE6E221DDA	Electric Defrost	6	4.15
RE6E278DDA	Electric Defrost	6	4.15
RE4E037DDA	Electric Defrost	4	3.95
RE4E075DDA	Electric Defrost	4	3.98
RE4E107DDA	Electric Defrost	4	4.01
RE4E149DDA	Electric Defrost	4	4.06
RE4E186DDA	Electric Defrost	4	4.09
RE4E234DDA	Electric Defrost	4	4.15

* Asterisk represents a variable character based upon voltage ordered. See page 3 for nomenclature.

1. If the model has a numerical value in the AWEF table, the following statement applies: The evaporator is designed and certified for use in walk-in cooler applications."
2. If the model has a numerical value in the AWEF table, the following statement applies:
3. "The evaporator is designed and certified for use in walk-in freezer applications."



Russell®

ENGINEERED FOR COOL.™

©2026 Heat Transfer Products Group

Published August 2026

RU-CTX-A1-0826

russell.htpg.com

This information is the most current and accurate information available and is subject to change without notice. HTPG makes no warranty or guarantee of any kind, express or implied, regarding the information set forth herein, including without limitation warranty regarding its currency, accuracy or completeness or any warranty of merchantability or fitness for a particular purpose.

