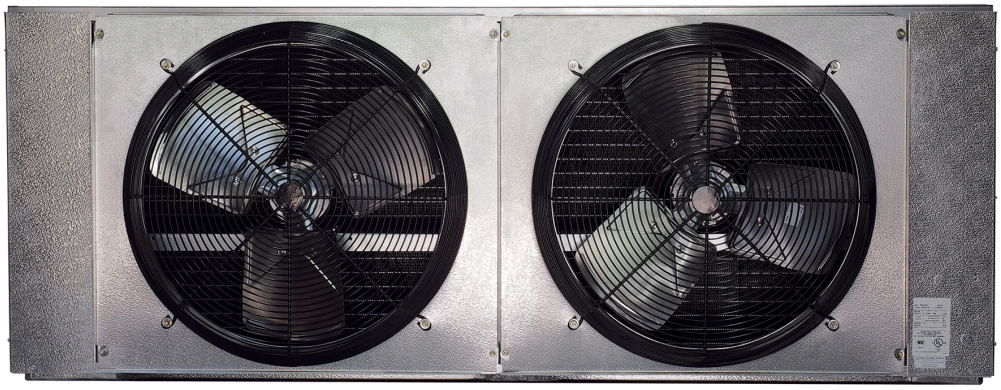
Russell

MEDIUM PROFILE
UNIT COOLER



Walk-Ins: Medium to Large Cooler and Freezer Applications

Air Defrost
18,200 to 99,000 BTUH

Electric Defrost
11,000 to 86,300 BTUH

Hot Gas Defrost
11,000 to 64,300 BTUH

FEATURES

Our Medium Profile Unit Coolers are the perfect evaporator solution for medium to large walk-in coolers and freezers. Designed with efficiency, performance and service in mind, the Medium Profile line truly stands out from the competition. The unit coolers were engineered to meet the Department of Energy's new AWEF* performance regulations and all feature energy-efficient rail-mount Dual Speed EC Motors. For maximum performance, all units are circuited for multiple refrigerants and feature optimized circuit patterns, enhanced surface coil tubing, and new high efficiency fan and venturi designs. The Medium Profile product line has several serviceability features including rail-mount motors, easily removable fan guards and modular fan panels, face mount defrost heaters, hinged drain pans, and shipping pallets designed to facilitate quicker installation.

SIZES

There are a wide array of sizes available with capacities ranging from 11,000 to 99,000 BTUH at a 10° TD. Models are available with air flow spanning a range of 2,090 to 9,580 CFM.

HOUSING

Each unit is constructed with a rust-free, heavy gauge, textured, aluminum housing which is light weight yet extremely durable. Models feature hinged one-piece drain pans to allow for convenient servicing and maintenance. Hanger holes are provided on all units for fast installation.

COIL

Seamless copper tubes are staggered and mechanically expanded into corrugated aluminum fins to assure maximum heat transfer. Die formed fin collars are provided for accurate fin spacing. Top panel is fastened directly to the tube sheets of the coil to provide high structural strength. Low Temp Electric Defrost and Hot Gas Defrost Models are available in both 6 FPI and 4 FPI. Medium Temp Electric Defrost and Air Defrost models are available in 6 FPI.

MOTORS

All models feature highly efficient Dual Speed Electronically Commutated (EC) motors which are compliant with California Title 24 regulations.

FANS & FAN GUARDS

Powerful heavy-duty aluminum fans are individually balanced to provide vibration free operation. Standard heavy-gauge wire fan guards are UL/cUL-approved epoxy coated for corrosion resistance. Air throw for Medium Profile Unit Coolers is 75 ft.

REFRIGERANTS

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

AIR DEFROST

Air Defrost models are designed for use in coolers at +35°F room temperature and warmer.

ELECTRIC DEFROST - MEDIUM TEMP

Medium Temperature Electric Defrost Models are designed for use in coolers between 10°F and 35°F room temperatures. Defrost heaters are mounted on the air intake side of the unit for optimal performance and easy maintenance. Heaters are installed inside the drain pan for fast, reliable drainage. Adjustable defrost termination, fan delay and heater safety controls are factory mounted for optimum performance of each control function.

ELECTRIC DEFROST - LOW TEMP

Low Temperature Electric Defrost Models are designed for use in freezers between +10°F and -30°F room temperatures. Defrost heaters are mounted on the air intake side of the unit for optimal performance and easy maintenance. Heaters are installed inside the drain pan for fast, reliable drainage. Adjustable defrost termination, fan delay and heater safety controls are factory mounted for optimum performance of each control function.

HOT GAS DEFROST

There are two types of Hot Gas Defrost models available: 3-pipe Hot Gas models and 2-pipe Hot Gas Reverse Cycle units. Hot Gas Defrost models are designed for use in coolers and freezers between +35°F and -30°F. Hot Gas Defrost 4 FPI models are designed for use in freezers between +32°F and -30°F. All units include adjustable defrost termination and fan delay controls which are factory mounted for optimum performance of each control function. Hot Gas Defrost models feature electric drain pan heaters making it possible to open the hinged drain pan for easy cleaning and servicing. Refer to the current Technical Bulletin for piping.

ELECTRICAL

Available in 115/1 (Air Defrost only) 208-230V/1, 208-230V/3, 460V/1, or 460V/3. A large compartment is supplied for all electrical components and is easily accessible by removing the end panel. All models are UL and cUL listed.

OPTIONAL FEATURES

- EcoNet® Enabled Controller[3] (factory-installed) (not available on Hot Gas Evaporators)
- EcoNet® Command Center (loose)
- Thermostat - Mechanical or Electric (mounted or loose)
- Thermostatic Expansion Valve (mounted or loose)
- Adjustable Defrost Termination
- Electronic Expansion Valve (mounted or loose)
- Liquid Line Solenoid Valve (mounted or loose)
- Insulated Drain Pan
- Painted Cabinet (White or Black)
- Stainless Steel Cabinet
- Coated Coil (Bronz-Glow, or Electrofin®)
- Suction/Liquid Heat Exchanger (loose)

* AWEF (Annual Walk-in Energy Factor)

1. Single Compressor system without variable capacity.
2. Some limitations apply. For specific electrical offering, consult electrical data tables in this brochure.
3. EcoNet Control Package includes EEV, suction pressure transducer, suction and entering air coil temp. thermistors, local on-board two-row backlit LCD display and push-button adjustments. (Controller replaces TXV, liquid line solenoid valve, room thermostat, defrost termination and fan delay, and time clock.)

ECONET ENABLED UNIT COOLERS (OPTIONAL)

- Developed in conjunction with Rheem Manufacturing specifically for walk-in coolers and freezers — it builds on the reliability and efficiency of Rheem's EcoNet technology
- Saves energy in refrigeration systems through precise superheat and space temperature control, fan cycling, and controlling how often the system goes into defrost based on compressor runtime
- Eliminates unnecessary defrosts
- Maximizes energy efficiency with less compressor runtime
- Reduces fan speed to 50% during off cycle for energy savings
- Can be used with a condensing unit in single and multiple evaporator installations as a group
- Optional EcoNet Command Center with intuitive graphical interface controls up to 32 devices (including the Command Center) through one display, continuous communication between system components, and remote mount display allows for EcoNet Enabled Unit Coolers to be programmed, monitored and troubleshot outside of space being cooled.

MODEL NOMENCLATURE

R	M	6	E	153	D	D	A
Brand	Style	Fins per Inch (FPI)	Defrost Type	BTUH in Thousands	Unit Voltage[1]	Motor Type	Vintage
R = Russell	M = Medium Profile	4 FPI 6 FPI	A = Air D = Medium Temp Electric Defrost E = Low Temp Electric Defrost H = Hot Gas 3 Pipe Electric Drain Pan G = Hot Gas Rev Electric Drain Pan		A =115/1/60 D =208-230/1/60 E =208-230/3/60 F =460/1/60 G =460/3/60	D = Dual Speed EC	

APPLICATION RATING AND ELECTRICAL DATA // AIR DEFROST MODELS

	Model No.	BTUH Capacity @ +25°F S.T. & 10°F TD[1]		CFM	No. of Fans	Total Fan Motor AMPS			MCA	MOPD
		R404A/ R744 DX (CO_2)	R407A/ R448A/R449A^			115V/1	208-230V/1	460V/1		
6 FPI	RM6A182*DA	18,200	21,100	3,190	1	3.2	1.9	1.2	15.0	20
	RM6A220*DA	22,000	25,800	2,950	1	3.2	1.9	1.2	15.0	20
	RM6A276*DA	27,600	32,300	6,950	2	6.4	3.8	2.4	15.0	20
	RM6A370*DA	37,000	43,100	6,380	2	6.4	3.8	2.4	15.0	20
	RM6A442*DA	44,200	51,900	5,900	2	6.4	3.8	2.4	15.0	20
	RM6A549*DA	54,900	64,200	9,580	3	9.6	5.7	3.6	15.0	20
	RM6A658*DA	65,800	76,900	8,860	3	9.6	5.7	3.6	15.0	20

APPLICATION RATING AND ELECTRICAL DATA // MEDIUM TEMPERATURE ELECTRIC DEFROST

	Model No.	BTUH Capacity @ +25°F S.T. & 10°F TD[1]		CFM	No. of Fans	Total Fan Motor AMPS Dual Speed EC† Motors Motor Voltage	
		404/744 DX	407/448/449			208-230V/1	460V/1
6 FPI	RM6D181*DA	18,200	21,100	3,190	1	1.9	1.2
	RM6D219*DA	22,000	25,800	2,950	1	1.9	1.2
	RM6D275*DA	27,600	32,300	6,950	2	3.8	2.4
	RM6D369*DA	37,000	43,100	6,380	2	3.8	2.4
	RM6D441*DA	44,200	51,900	5,900	2	3.8	2.4
	RM6D548*DA	54,900	64,200	9,580	3	5.7	3.6
	RM6D657*DA	65,800	76,900	8,860	3	5.7	3.6

	Model No.	208-230V/1				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled	Base Model	EcoNet Enabled	208-230V/1	
6 FPI	RM6D181DDA	15.0	20.5	20	25	19.5	4,480
	RM6D219DDA	15.0	20.5	20	25	19.5	4,480
	RM6D275DDA	20	40.5	20	45	38.5	8,860
	RM6D369DDA	20	40.5	20	45	38.5	8,860
	RM6D441DDA	20	40.5	20	45	38.5	8,860

	Model No.	208-230V/3				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled	Base Model	EcoNet Enabled	208-230V/3	
6 FPI	RM6D181EDA	15.0	15.0	20	25	11.2	4,480
	RM6D219EDA	15.0	15.0	20	25	11.2	4,480
	RM6D275EDA	15.0	23.2	20	25	22.2	8,860
	RM6D369EDA	15.0	23.2	20	25	22.2	8,860
	RM6D441EDA	15.0	23.2	20	25	22.2	8,860
	RM6D548EDA	15.0	35.5	20	40	33.5	13,340
	RM6D657EDA	15.0	35.5	20	40	33.5	13,340

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 26 for AWEF compliance ratings.

APPLICATION RATING AND ELECTRICAL DATA // MEDIUM TEMPERATURE ELECTRIC DEFROST

	Model No.	460V/1				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled[1]	Base Model	EcoNet Enabled[1]	460V/1	
6 FPI	RM6D181FDA	15.0	15.0	20	25	9.7	4,480
	RM6D219FDA	15.0	15.0	20	25	9.7	4,480
	RM6D275FDA	15.0	20.3	20	25	19.3	8,860
	RM6D369FDA	15.0	20.3	20	25	19.3	8,860
	RM6D441FDA	15.0	20.3	20	25	19.3	8,860
	RM6D548FDA	15.0	30.0	20	35	29.0	13,340
	RM6D657FDA	15.0	30.0	20	35	29.0	13,340

	Model No.	460V/3				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled[1]	Base Model	EcoNet Enabled[1]	460V/1	
6 FPI	RM6D181GDA	15.0	15.0	20	20	5.6	4,480
	RM6D219GDA	15.0	15.0	20	20	5.6	4,480
	RM6D275GDA	15.0	15.0	20	20	11.1	8,860
	RM6D369GDA	15.0	15.0	20	20	11.1	8,860
	RM6D441GDA	15.0	15.0	20	20	11.1	8,860
	RM6 D548GDA	15.0	17.7	20	20	16.7	13,340
	RM6D657GDA	15.0	17.7	20	20	16.7	13,340

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 27 for AWEF compliance ratings.

APPLICATION RATING AND ELECTRICAL DATA // LOW TEMPERATURE ELECTRIC DEFROST

	Model No.	BTUH Capacity @ -20°F S.T. & 10°F TD[1]		CFM	No. of Fans	Total Fan Motor AMPS	
						Dual Speed EC Motors	
						Motor Voltage	
		R404A/R744 DX (CO_2)	R407A/R448A/ R449A^			208-230V/1	460V/1
6 FPI	RM6E153*DA	15,300	17,400	2,250	1	1.9	1.2
	RM6E184*DA	18,400	21,100	2,090	1	1.9	1.2
	RM6E311*DA	31,100	35,700	4,500	2	3.8	2.4
	RM6E374*DA	37,400	42,900	4,180	2	3.8	2.4
	RM6E469*DA	46,900	53,600	6,750	3	5.7	3.6
	RM6E564*DA	56,400	64,300	6,270	3	5.7	3.6
4 FPI	RM4E110*DA	11,000	12,400	2,350	1	1.9	1.2
	RM4E143*DA	14,300	16,200	2,210	1	1.9	1.2
	RM4E232*DA	23,200	26,100	4,690	2	3.8	2.4
	RM4E288*DA	28,800	32,700	4,420	2	3.8	2.4
	RM4E336*DA	33,600	38,300	7,040	3	5.7	3.6
	RM4E419*DA	41,900	47,600	6,640	3	5.7	3.6

Capacity Correction for Electric Defrost Evaporators						
S.S.T. (Dew)	20°F	0°F	-10°F	-20°F	-30°F	-40°F
Multiply Capacity by:	1.15	1.075	1.0375	1	0.9625	0.925

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 27 for AWEF compliance ratings

APPLICATION RATING AND ELECTRICAL DATA // LOW TEMPERATURE ELECTRIC DEFROST

	Model No.	208-230V/1				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled	Base Model	EcoNet Enabled	208-230V/1	
6 FPI	RM6E153DDA	15.0	20.5	20	25	19.5	4,480
	RM6E184DDA	15.0	20.5	20	25	19.5	4,480
	RM6E311DDA	15.0	40.5	20	45	38.5	8,860
	RM6E374DDA	15.0	40.5	20	45	38.5	8,860
4FPI	RM4E110DDA	15.0	20.5	20	25	19.5	4,480
	RM4E143DDA	15.0	20.5	20	25	19.5	4,480
	RM4E232DDA	15.0	40.5	20	45	38.5	8,860
	RM4E288DDA	15.0	40.5	20	45	38.5	8,860

	Model No.	208-230V/3				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled[1]	Base Model	EcoNet Enabled[1]	208-230V/3	
6 FPI	RM6E153EDA	15.0	15.0	20	25	11.2	4,480
	RM6E184EDA	15.0	15.0	20	25	11.2	4,480
	RM6E311EDA	15.0	23.2	20	25	22.2	8,860
	RM6E374EDA	15.0	23.2	20	25	22.2	8,860
	RM6E469EDA	15.0	35.5	20	40	35.5	13,340
	RM6E564EDA	15.0	35.5	20	40	35.5	13,340
4FPI	RM4E110EDA	15.0	15.0	20	25	11.2	4,480
	RM4E143EDA	15.0	15.0	20	25	11.2	4,480
	RM4E232EDA	15.0	23.2	20	25	22.2	8,860
	RM4E288EDA	15.0	23.2	20	25	22.2	8,860
	RM4E336EDA	15.0	35.5	20	40	35.5	13,340
	RM4E419EDA	15.0	35.5	20	40	35.5	13,340

Capacity Correction for Electric Defrost Evaporators						
S.S.T. (Dew)	20°F	0°F	-10°F	-20°F	-30°F	-40°F
Multiply Capacity by:	1.15	1.075	1.0375	1	0.9625	0.925

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 27 for AWEF compliance ratings

APPLICATION RATING AND ELECTRICAL DATA // LOW TEMPERATURE ELECTRIC DEFROST

	Model No.	460V/1				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled[1]	Base Model	EcoNet Enabled[1]	460V/1	
6 FPI	RM6E153FDA	15.0	15.0	20	25	9.7	4,480
	RM6E184FDA	15.0	15.0	20	25	9.7	4,480
	RM6E311FDA	15.0	20.3	20	25	19.3	8,860
	RM6E374FDA	15.0	20.3	20	25	19.3	8,860
	RM6E469FDA	15.0	30.0	20	35	29.0	13,340
	RM6E564FDA	15.0	30.0	20	35	29.0	13,340
4 FPI	RM4E110FDA	15.0	15.0	20	25	9.7	4,480
	RM4E143FDA	15.0	15.0	20	25	9.7	4,480
	RM4E232FDA	15.0	20.3	20	25	19.3	8,860
	RM4E288FDA	15.0	20.3	20	25	19.3	8,860
	RM4E336FDA	15.0	30.0	20	35	29.0	13,340
	RM4E419FDA	15.0	30.0	20	35	29.0	13,340

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 26 for AWEF compliance ratings.

APPLICATION RATING AND ELECTRICAL DATA // LOW TEMPERATURE ELECTRIC DEFROST

	Model No.	460V/3				Heater Amps	Heater Watts
		MCA		MOPD			
		Base Model	EcoNet Enabled	Base Model	EcoNet Enabled	460V/3	
6 FPI	RM6E153GDA	15.0	15.0	20	20	5.6	4,480
	RM6E184GDA	15.0	15.0	20	20	5.6	4,480
	RM6E311GDA	15.0	15.0	20	20	11.1	8,860
	RM6E374GDA	15.0	15.0	20	20	11.1	8,860
	RM6E469GDA	15.0	17.7	20	20	16.7	13,340
	RM6E564GDA	15.0	17.7	20	20	16.7	13,340
4 FPI	RM4E110GDA	15.0	15.0	20	20	5.6	4,480
	RM4E143GDA	15.0	15.0	20	20	5.6	4,480
	RM4E232GDA	15.0	15.0	20	20	11.1	8,860
	RM4E288GDA	15.0	15.0	20	20	11.1	8,860
	RM4E336GDA	15.0	17.7	20	20	16.7	13,340
	RM4E419GDA	15.0	17.7	20	20	16.7	13,340

EcoNet Enabled Units are not powered by Condensing Unit so Defrost Heaters are incorporated into shown MCA/MOPD.
Econet Enabled calculations include additional 1 AMP for control voltages.
^ R407A, R448A and R449A 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.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 27 for AWEF compliance ratings

APPLICATION RATING AND ELECTRICAL DATA // HOT GAS 3-PIPE DEFROST

	Hot Gas 3-Pipe Model No.	BTUH Capacity @ -20°F S.T. & 10°F TD[1]		CFM	No. of F ans	Total Fan Motor AMPS Dual Speed EC† Motors Motor Voltage		MCA	MOPD
		R404A	R407A/ R448A/R449A^			208-230V/1	460V/1		
6 FPI	RM6H153*DA	15,300	17,400	2,250	1	1.9	1.2	15.0	20
	RM6H184*DA	18,400	21,100	2,090	1	1.9	1.2	15.0	20
	RM6H311*DA	31,100	35,700	4,500	2	3.8	2.4	15.0	20
	RM6H374*DA	37,400	42,900	4,180	2	3.8	2.4	15.0	20
	RM6H469*DA	46,900	53,600	6,750	3	5.7	3.6	15.0	20
	RM6H564*DA	56,400	64,300	6,270	3	5.7	3.6	15.0	20
4 FPI	RM4H110*DA	11,000	12,400	2,350	1	1.9	1.2	15.0	20
	RM4H143*DA	14,300	16,200	2,210	1	1.9	1.2	15.0	20
	RM4H232*DA	23,200	26,100	4,690	2	3.8	2.4	15.0	20
	RM4H288*DA	28,800	32,700	4,420	2	3.8	2.4	15.0	20
	RM4H336*DA	33,600	38,300	7,040	3	5.7	3.6	15.0	20
	RM4H419*DA	41,900	47,600	6,640	3	5.7	3.6	15.0	20

	Hot Gas 3-Pipe Model No.	Drain Pan Heater Amps		Drain Pan Heater Watts
		208-230V/1	460V/1	
6 FPI	RM6H153*DA	15,300	15,300	1,480
	RM6H184*DA	15,300	15,300	1,480
	RM6H311*DA	15,300	15,300	2,960
	RM6H374*DA	15,300	15,300	2,960
	RM6H469*DA	15,300	15,300	4,440
	RM6H564*DA	15,300	15,300	4,440
4 FPI	RM4H110*DA	15,300	15,300	1,480
	RM4H143*DA	15,300	15,300	1,480
	RM4H232*DA	15,300	15,300	2,960
	RM4H288*DA	15,300	15,300	2,960
	RM4H336*DA	15,300	15,300	4,440
	RM4H419*DA	15,300	15,300	4,440

HOT GAS 3-PIPE MODEL

The system uses 3 pipes — 1 for liquid line, 1 for suction line and 1 for hot gas. The hot gas is taken from the discharge line, between the compressor and the condenser, through a hot-gas solenoid valve to the distributor tee then through the coil.

Capacity Correction for Hot Gas Defrost Evaporators						
S.S.T. (Dew)	20°F	0°F	-10°F	-20°F	-30°F	-40°F
Multiply Capacity by:	1.15	1.075	1.0375	1	0.9625	0.925

* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
+ Hot Gas models include an electric drain pan.
† Dual Speed EC motors are compliant with California Title 24 regulations..
^ R407A, R448A and R449A are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 26 for AWEF compliance ratings.

APPLICATION RATING AND ELECTRICAL DATA // HOT GAS REVERSE CYCLE

	Hot Gas Reverse Cycle Model No.+	BTUH Capacity @ -20°F S.T. & 10°F TD[1]		CFM	No. of Fans	Total Fan Motor AMPS Dual Speed EC† Motors Motor Voltage		MCA	MOPD
		R404A	R407A/ R448A/R449A^			208-230V/1	460V/1		
6 FPI	RM6G153*DA	15,300	17,400	2,250	1	1.9	1.2	15.0	20
	RM6G184*DA	18,400	21,100	2,090	1	1.9	1.2	15.0	20
	RM6G311*DA	31,100	35,700	4,500	2	3.8	2.4	15.0	20
	RM6G374*DA	37,400	42,900	4,180	2	3.8	2.4	15.0	20
	RM6G469*DA	46,900	53,600	6,750	3	5.7	3.6	15.0	20
	RM6G564*DA	56,400	64,300	6,270	3	5.7	3.6	15.0	20
4 FPI	RM4G110*DA	11,000	12,400	2,350	1	1.9	1.2	15.0	20
	RM4G143*DA	14,300	16,200	2,210	1	1.9	1.2	15.0	20
	RM4G232*DA	23,200	26,100	4,690	2	3.8	2.4	15.0	20
	RM4G288*DA	28,800	32,700	4,420	2	3.8	2.4	15.0	20
	RM4G336*DA	33,600	38,300	7,040	3	5.7	3.6	15.0	20
	RM4G419*DA	41,900	47,600	6,640	3	5.7	3.6	15.0	20

	Hot Gas Reverse Cycle Model No.+	Drain Pan Heater Amps		Drain Pan Heater Watts
		208-230V/1	460V/1	
6 FPI	RM6G153*DA	6.4	3.2	1,480
	RM6G184*DA	6.4	3.2	1,480
	RM6G311*DA	12.9	6.4	2,960
	RM6G374*DA	12.9	6.4	2,960
	RM6G469*DA	19.3	9.7	4,440
	RM6G564*DA	19.3	9.7	4,440
4 FPI	RM4G110*DA	6.4	3.2	1,480
	RM4G143*DA	6.4	3.2	1,480
	RM4G232*DA	12.9	6.4	2,960
	RM4G288*DA	12.9	6.4	2,960
	RM4G336*DA	19.3	9.7	4,440
	RM4G419*DA	19.3	9.7	4,440

HOT GAS REVERSE CYCLE 2-PIPE MODEL

A changeover valve is located in the discharge suction line of the compressor, so that when defrost is required, the valve changes over from the normal refrigeration flow so that the discharged gas flows into the suction connection and bypasses TX valve.

Capacity Correction for Hot Gas Defrost Evaporators						
S.S.T. (Dew)	20°F	0°F	-10°F	-20°F	-30°F	-40°F
Multiply Capacity by:	1.15	1.075	1.0375	1	0.9625	0.925

* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
+ Hot Gas models include an electric drain pan.
† Dual Speed EC motors are compliant with California Title 24 regulations..
^ R407A, R448A and R449A are rated at dew point temperature. Use R407A capacity ratings for R407C and R407F.
Models were designed in anticipation of the July 2020 Department of Energy Annual Walk-in Energy Factor (AWEF) regulations for evaporators for Walk-in Coolers and Freezers in boxes less than 3,000 sq. ft. See page 26 for AWEF compliance ratings.

DISTRIBUTOR NOZZLE AND 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	
6 FPI - R404A	RM6A182*DA	L-3/4	L-2	SBFSE-B-C	SBFSE-B-C	SER-B	SER-B	4
	RM6A220*DA	L-3/4	L-2-1/2	SBFSE-B-C	SBFSE-B-C	SER-B	SER-B	6
	RM6A276*DA	L-1	L-3	SBFSE-B-C	SBFSE-B-C	SER-B	SER-C	8
	RM6A370*DA	L-1-1/2	L-4	SBFSE-C-C	SBFSE-C-C	SER-C	SER-C	9
	RM6A442*DA	G-1-1/2	G-5	EBSSE-6-C	EBSSE-6-C	SER-C	SER-C	12
	RM6A549*DA	G-2	G-6	EBSSE-6-C	EBSSE-6-C	SER-C	SER-C	12
	RM6A658*DA	G-2-1/2	G-8	EBSSE-6-C	EBSSE-6-C	SER-C	SER-D	16
6 FPI - R407A, R407C†	RM6A182*DA	L-3/4	L-2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	4
	RM6A220*DA	L-3/4	L-2-1/2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	6
	RM6A276*DA	L-1	L-3	SBFDE-B-C	SBFDE-B-C	SER-B	SER-C	8
	RM6A370*DA	L-1-1/2	L-4	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	9
	RM6A442*DA	G-1-1/2	G-5	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	12
	RM6A549*DA	G-2	G-6	EBSDE-7-C	SBFDE-C-C	SER-C	SER-C	12
	RM6A658*DA	G-2-1/2	G-8	EBSDE-7-C	EBSDE-7-C	SER-C	SER-D	16
6 FPI - R448A, R449A†	RM6A182*DA	L-3/4	L-2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	4
	RM6A220*DA	L-3/4	L-2-1/2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	6
	RM6A276*DA	L-1	L-3	SBFDE-C-C	SBFDE-C-C	SER-B	SER-C	8
	RM6A370*DA	L-1-1/2	L-4	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	9
	RM6A442*DA	G-1-1/2	G-5	SBFDE-C-C	EBSDE-7-C	SER-C	SER-C	12
	RM6A549*DA	G-2	G-6	EBSDE-7-C	EBSDE-7-C	SER-C	SER-C	12
	RM6A658*DA	G-2-1/2	G-8	EBSDE-7-C	EBSDE-7-C	SER-C	SER-D	16

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on +25°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

DISTRIBUTOR NOZZLE AND EXPANSION VALVES // MEDIUM TEMPERATURE ELECTRIC DEFROST

Model No.		Part Numbers						No. of Circuits
		Nozzle @ Liq. Temp.		TXV @ Liq. Temp.		EEV @ Liq. Temp.		
		50°F	105°F	50°F	105°F	50°F	105°F	
6 FPI - R404A	RM6D181*DA	L-3/4	L-2	SBFSE-B-C	SBFSE-B-C	SER-B	SER-B	4
	RM6D219*DA	L-3/4	L-2-1/2	SBFSE-B-C	SBFSE-B-C	SER-B	SER-B	6
	RM6D275*DA	L-1	L-3	SBFSE-B-C	SBFSE-C-C	SER-B	SER-C	8
	RM6D369*DA	L-1-1/2	L-4	SBFSE-C-C	SBFSE-C-C	SER-C	SER-C	9
	RM6D441*DA	G-1-1/2	G-5	EBSSE-6-C	EBSSE-6-C	SER-C	SER-C	12
	RM6D548*DA	G-2	G-6	EBSSE-6-C	EBSSE-6-C	SER-C	SER-C	12
	RM6D657*DA	G-2-1/2	G-8	EBSSE-6-C	EBSSE-6-C	SER-C	SER-D	16
6 FPI -R407A, R407C†	RM6D181*DA	L-3/4	L-2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	4
	RM6D219*DA	L-3/4	L-2-1/2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	6
	RM6D275*DA	L-1	L-3	SBFDE-B-C	SBFDE-B-C	SER-B	SER-C	8
	RM6D369*DA	L-1-1/2	L-4	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	9
	RM6D441*DA	G-1-1/2	G-5	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	12
	RM6D548*DA	G-2	G-6	EBSDE-7-C	SBFDE-C-C	SER-C	SER-C	12
	RM6D657*DA	G-2-1/2	G-8	EBSDE-7-C	EBSDE-7-C	SER-C	SER-D	16
6 FPI - R448A, R449A†	RM6D181*DA	L-3/4	L-2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	4
	RM6D219*DA	L-3/4	L-2-1/2	SBFDE-B-C	SBFDE-B-C	SER-B	SER-B	6
	RM6D275*DA	L-1	L-3	SBFDE-C-C	SBFDE-C-C	SER-B	SER-C	8
	RM6D369*DA	L-1-1/2	L-4	SBFDE-C-C	SBFDE-C-C	SER-C	SER-C	9
	RM6D441*DA	G-1-1/2	G-5	SBFDE-C-C	EBSDE-7-C	SER-C	SER-C	12
	RM6D548*DA	G-2	G-6	EBSDE-7-C	EBSDE-7-C	SER-C	SER-C	12
	RM6D657*DA	G-2-1/2	G-8	EBSDE-7-C	EBSDE-7-C	SER-C	SER-D	16

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on +25°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

DISTRIBUTOR NOZZLE AND EXPANSION VALVES // LOW TEMPERATURE ELECTRIC DEFROST

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	
6 FPI - R404A	RM6E153*DA	L-1-1/2	L-2-1/2	SBFSE-B-Z	SBFSE-B-Z	SER-B	SER-B	6
	RM6E184*DA	L-1-1/2	L-3	SBFSE-B-Z	SBFSE-C-Z	SER-B	SER-B	8
	RM6E311*DA	G-2-1/2	G-5	SBFSE-C-Z	EBSSE-6-Z	SER-B	SER-C	12
	RM6E374*DA	G-3	G-6	EBSSE-6-Z	EBSSE-6-Z	SER-C	SER-C	16
	RM6E469*DA	G-4	G-10	EBSSE-6-Z	EBSSE-7-1/2-Z	SER-C	SER-C	18
	RM6E564*DA	G-5	G-12	EBSSE-7-1/2-Z	EBSSE-10-Z	SER-C	SER-C	24
6 FPI - R407A/ R407C†	RM6E153*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-B	6
	RM6E184*DA	L-1-1/2	L-3	SBFDE-B-Z	SBFDE-B-Z	SER-B	SER-B	8
	RM6E311*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM6E374*DA	G-3	G-6	SBFDE-C-Z	EBSDE-7-Z	SER-C	SER-C	16
	RM6E469*DA	G-4	G-10	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	18
	RM6E564*DA	G-5	G-12	EBSDE-7-Z	EBSDE-10-Z	SER-C	SER-C	24
6 FPI - R448A, R449A†	RM6E153*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-B	6
	RM6E184*DA	L-1-1/2	L-3	SBFDE-B-Z	SBFDE-B-Z	SER-B	SER-B	8
	RM6E311*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM6E374*DA	G-3	G-6	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	16
	RM6E469*DA	G-4	G-10	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	18
	RM6E564*DA	G-5	G-12	EBSDE-10-Z	EBSDE-10-Z	SER-C	SER-C	24

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on -20°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

DISTRIBUTOR NOZZLE AND EXPANSION VALVES // LOW TEMPERATURE ELECTRIC DEFROST

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	
4 FPI - R404A	RM4E110*DA	L-1	L-2	SBFSE-A-Z	SBFSE-A-Z	SER-A	SER-A	4
	RM4E143*DA	L-1-1/2	L-2-1/2	SBFSE-A-Z	SBFSE-B-Z	SER-A	SER-B	6
	RM4E232*DA	L-2	L-4	SBFSE-B-Z	SBFSE-C-Z	SER-B	SER-B	9
	RM4E288*DA	G-2-1/2	G-5	SBFSE-C-Z	EBSSE-6-Z	SER-B	SER-C	12
	RM4E336*DA	G-3	G-6	SBFSE-C-Z	EBSSE-6-Z	SER-C	SER-C	12
	RM4E419*DA	G-4	G-8	EBSSE-6-Z	EBSSE-6-Z	SER-C	SER-C	16
4 FPI - R407A, R407C†	RM4E110*DA	L-1	L-2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-A	4
	RM4E143*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-B	6
	RM4E232*DA	L-2	L-4	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-B	9
	RM4E288*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM4E336*DA	G-3	G-6	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM4E419*DA	G-4	G-8	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	16
4 FPI - R448A, R449A†	RM4E110*DA	L-1	L-2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-A	4
	RM4E143*DA	L-1-1/2	L-2-1/2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-B	6
	RM4E232*DA	L-2	L-4	SBFDE-B-Z	SBFDE-C-Z	SER-B	SER-B	9
	RM4E288*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM4E336*DA	G-3	G-6	SBFDE-C-Z	EBSDE-7-Z	SER-B	SER-C	12
	RM4E419*DA	G-4	G-8	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	16

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on -20°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

DISTRIBUTOR NOZZLE AND EXPANSION VALVES // HOT GAS DEFROST

Model No.		Part Numbers						No. of Circuits
		Nozzle @ Liq. Temp.		TXV^ @ Liq. Temp.		EEV @ Liq. Temp.		
		50°F	105°F	50°F	105°F	50°F	105°F	
6 FPI - R404A	RM6*153*DA	L-1-1/2	L-2-1/2	SBFSE-B-Z	SBFSE-B-Z	SER-B	SER-B	6
	RM6*184*DA	G-1-1/2	G-3	SBFSE-B-Z	SBFSE-C-Z	SER-B	SER-B	8
	RM6*311*DA	G-2-1/2	G-5	SBFSE-C-Z	EBSSE-6-Z	SER-B	SER-C	12
	RM6*374*DA	G-3	G-6	EBSSE-6-Z	EBSSE-6-Z	SER-C	SER-C	16
	RM6*469*DA	G-4	G-10	EBSSE-6-Z	EBSSE-7-1/2-Z	SER-C	SER-C	18
	RM6*564*DA	G-5	G-12	EBSSE-7-1/2-Z	EBSSE-10-Z	SER-C	SER-C	24
6 FPI - R407A, R407C	RM6*153*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-B	6
	RM6*184*DA	G-1-1/2	G-3	SBFDE-B-Z	SBFDE-B-Z	SER-B	SER-B	8
	RM6*311*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM6*374*DA	G-3	G-6	SBFDE-C-Z	EBSDE-7-Z	SER-C	SER-C	16
	RM6*469*DA	G-4	G-10	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	18
	RM6*564*DA	G-5	G-12	EBSDE-7-Z	EBSDE-10-Z	SER-C	SER-C	24
6 FPI - R448A/ R449A†	RM6*153*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-A	6
	RM6*184*DA	G-1-1/2	G-3	SBFDE-B-Z	SBFDE-B-Z	SER-B	SER-B	8
	RM6*311*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-B	12
	RM6*374*DA	G-3	G-6	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	16
	RM6*469*DA	G-4	G-10	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	18
	RM6*564*DA	G-5	G-12	EBSDE-10-Z	EBSDE-10-Z	SER-C	SER-C	24

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on -20°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

DISTRIBUTOR NOZZLE AND EXPANSION VALVES // HOT GAS DEFROST

Model No.		Part Numbers						No. of Circuits
		Nozzle @ Liq. Temp.		TXV^ @ Liq. Temp.		EEV @ Liq. Temp.		
		50°F	105°F	50°F	105°F	50°F	105°F	
4 FPI - R404A	RM4*110*DA	L-1	L-2	SBFSE-A-Z	SBFSE-A-Z	SER-A	SER-A	4
	RM4*143*DA	L-1-1/2	L-2-1/2	SBFSE-A-Z	SBFSE-B-Z	SER-A	SER-B	6
	RM4*232*DA	G-2	G-4	SBFSE-B-Z	SBFSE-C-Z	SER-B	SER-B	9
	RM4*288*DA	G-2-1/2	G-5	SBFSE-C-Z	EBSSE-6-Z	SER-B	SER-C	12
	RM4*336*DA	G-3	G-6	SBFSE-C-Z	EBSSE-6-Z	SER-C	SER-C	12
	RM4*419*DA	G-4	G-8	EBSSE-6-Z	EBSSE-6-Z	SER-C	SER-C	16
4 FPI - R407A/ R407C†	RM4*110*DA	L-1	L-2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-A	4
	RM4*143*DA	L-1-1/2	L-2-1/2	SBFDE-B-Z	SBFDE-B-Z	SER-A	SER-B	6
	RM4*232*DA	G-2	G-4	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-B	9
	RM4*288*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM4*336*DA	G-3	G-6	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-C	12
	RM4*419*DA	G-4	G-8	EBSDE-7-Z	EBSDE-7-Z	SER-C	SER-C	16
4 FPI - R448A/ R449A†	RM4*110*DA	L-1	L-2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-A	4
	RM4*143*DA	L-1-1/2	L-2-1/2	SBFDE-A-Z	SBFDE-A-Z	SER-A	SER-A	6
	RM4*232*DA	G-2	G-4	SBFDE-B-Z	SBFDE-C-Z	SER-B	SER-B	9
	RM4*288*DA	G-2-1/2	G-5	SBFDE-C-Z	SBFDE-C-Z	SER-B	SER-B	12
	RM4*336*DA	G-3	G-6	SBFDE-C-Z	EBSDE-7-Z	SER-B	SER-B	12
	RM4*419*DA	G-4	G-8	EBS DE-7-Z	EBSDE-7-Z	SER-C	SER-C	16

The distributor lines are 3/16" tube & 21" long.
* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ TXV selections are based on -20°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 valves, follow manufacturers selection guidelines.
Base models (no factory-mounted components) include nozzles sized for 100°F liquid shipped loose.

SPECIFICATIONS // AIR DEFROST MODELS

	Model No.	Fan Diam. (In.)	Motor Data			Refrigerant Connections		No. of Hanger Slot Locations	Fig.	Unit Dimensions (In.)			Approx. Unit Wt. (Lbs.)
			Motor Qty.	HP	RPM	Liquid Line^	Suction			L	W	H	
6 FPI	RM6A182*DA	24	1	1/3	850	3/8	7/8	4	1	47-1/2	21-5/16	33-7/8	120
	RM6A220*DA	24	1	1/3	850	3/8	7/8	4	1	47-1/2	21-5/16	33-7/8	120
	RM6A276* DA	24	2	1/3	850	1/2	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6A370*DA	24	2	1/3	850	1/2	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6A442*DA	24	2	1/3	850	5/8	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6A549*DA	24	3	1/3	850	5/8	1-3/8	8	3	113-9/16	21-5/16	33-7/8	316
	RM6A658*DA	24	3	1/3	850	5/8	1-3/8	8	3	113-9/16	21-5/16	33-7/8	316

SPECIFICATIONS // MEDIUM TEMPERATURE ELECTRIC DEFROST MODELS

	Model No.	Fan Diam. (In.)	Motor Data			Refrigerant Connections		No. of Hangers Slot Location	Fig.	Unit Dimensions (In.)			Approx. Unit Wt. (Lbs.)
			Motor Qty	HP	RPM	Liquid Line^	Suction			L	W	H	
6 FPI	RM6D181*DA	24	1	1/3	850	3/8	7/8	4	1	47-1/2	21-5/16	33-7/8	120
	RM6D219*DA	24	1	1/3	850	3/8	7/8	4	1	47-1/2	21-5/16	33-7/8	120
	RM6D275*DA	24	2	1/3	850	1/2	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6D369*DA	24	2	1/3	850	1/2	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6D441*DA	24	2	1/3	850	5/8	1-1/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6D548*DA	24	3	1/3	850	5/8	1-3/8	8	3	113-9/16	21-5/16	33-7/8	316
	RM6D657*DA	24	3	1/3	850	5/8	1-3/8	8	3	113-9/16	21-5/16	33-7/8	316

* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.
For dimensional distance between hanger slots, consult model's corresponding dimension drawing. Hanger slots are 3/8" deep x 1" wide.

SPECIFICATIONS // LOW TEMPERATURE ELECTRIC DEFROST AND HOT GAS MODELS

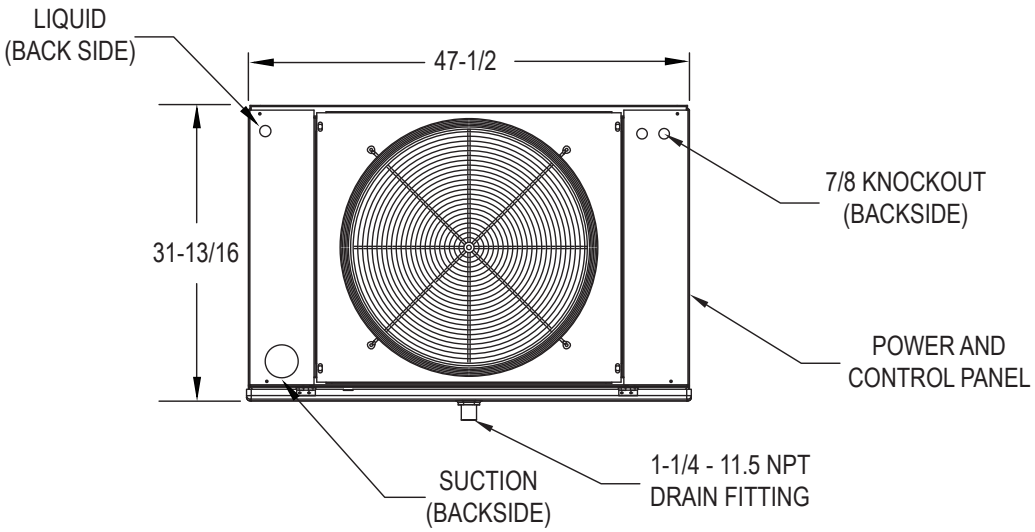
	Model No.	Fan Diam. (In.)	Motor Data			Refrigerant Connections			No. of Hanger Slot Loc.	Fig.	Unit Dimensions (In.)			App. Unit Wt. (Lbs.)
			Motor Qty.	HP	RPM	Liquid Line^	Suction	3-Pipe Hot Gas Line			L	W	H	
6 FPI - RM*E/G/H	RM6*153*DA	24	1	1/3	850	3/8	1-1/8	1/2	4	1	47-1/2	21-5/16	33-7/8	120
	RM6*184*DA	24	1	1/3	850	3/8	1-1/8	1/2	4	1	47-1/2	21-5/16	33-7/8	120
	RM6*311*DA	24	2	1/3	850	1/2	1-5/8	5/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6*374*DA	24	2	1/3	850	5/8	1-5/8	7/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM6*469*DA	24	3	1/3	850	5/8	2-1/8	7/8	8	3	113-9/16	21-5/16	33-7/8	320
	RM6*564*DA	24	3	1/3	850	5/8	2-1/8	7/8	8	3	113-9/16	21-5/16	33-7/8	320
4 FPI - RM*E/G/H	RM4*110*DA	24	1	1/3	850	3/8	1-1/8	1/2	4	1	47-1/2	21-5/16	33-7/8	120
	RM4*143*DA	24	1	1/3	850	3/8	1-1/8	1/2	4	1	47-1/2	21-5/16	33-7/8	120
	RM4*232*DA	24	2	1/3	850	1/2	1-3/8	5/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM4*288*DA	24	2	1/3	850	1/2	1-3/8	5/8	6	2	80-1/2	21-5/16	33-7/8	220
	RM4*336*DA	24	3	1/3	850	1/2	1-5/8	5/8	8	3	113-9/16	21-5/16	33-7/8	320
	RM4*419*DA	24	3	1/3	850	5/8	1-5/8	7/8	8	3	113-9/16	21-5/16	33-7/8	320

* Each asterisk represents a variable character based on voltage ordered. See page 4 for nomenclature.
^ For units with mounted TXV components. See Nozzle/TXV table for distributor connection size when TXV is field installed.
1. For dimensional distance between hanger slots, consult model's corresponding dimension drawing. Hanger slots are 3/8" deep x 1" wide.
2. Drain is 1-1/4" NPT for all models.
3. For shipping dimensions and weights, see Shipping Information table on page 25.

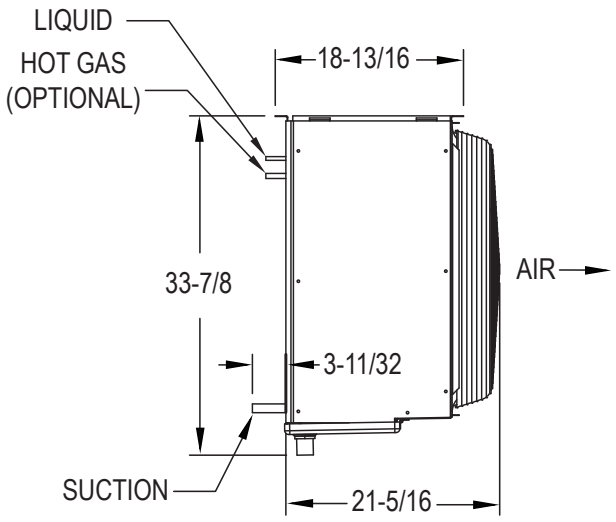
PHYSICAL DIMENSIONS

Figure 1: Single Fan

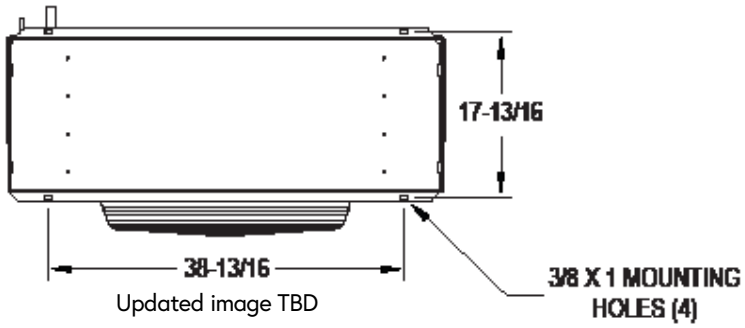
Front View



Side View



Top View



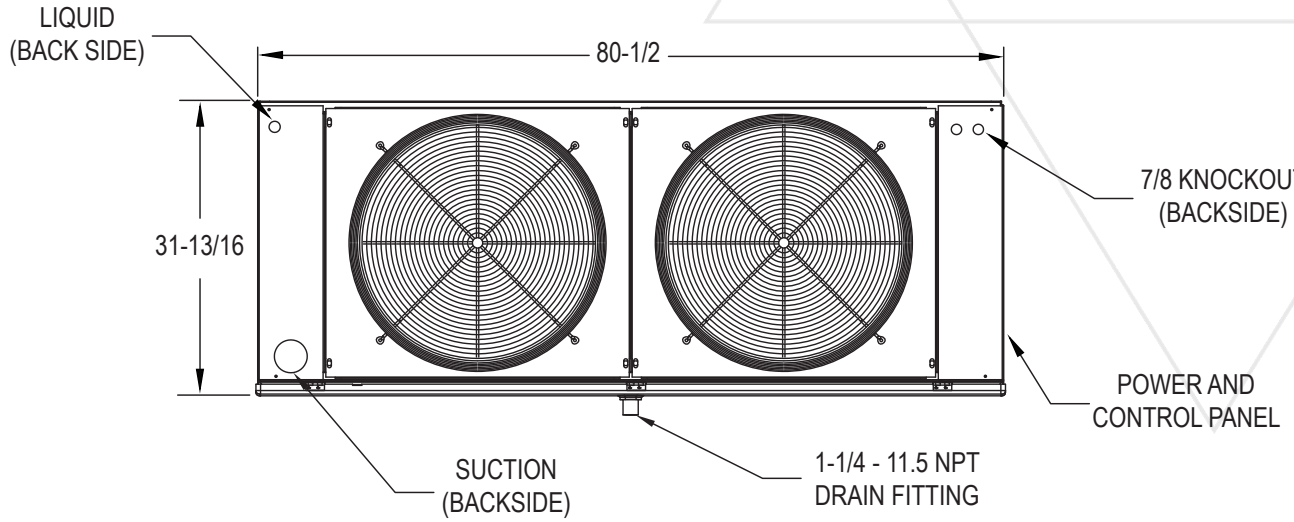
Updated image TBD

All mounting holes are 3/8" diameter
All dimensions are in inches

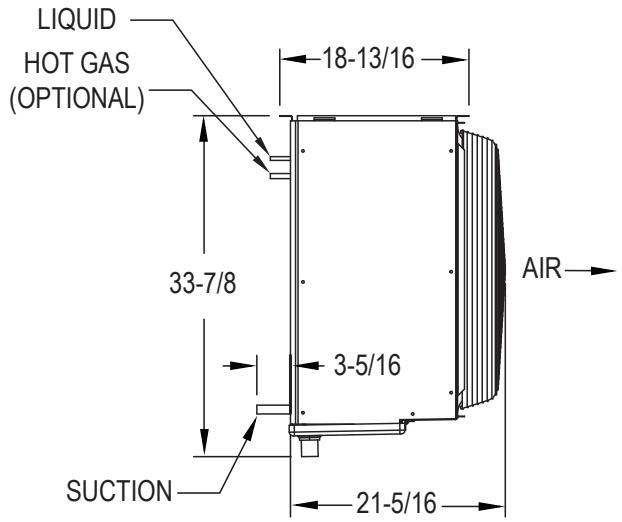
PHYSICAL DIMENSIONS

Figure 2: Two Fan

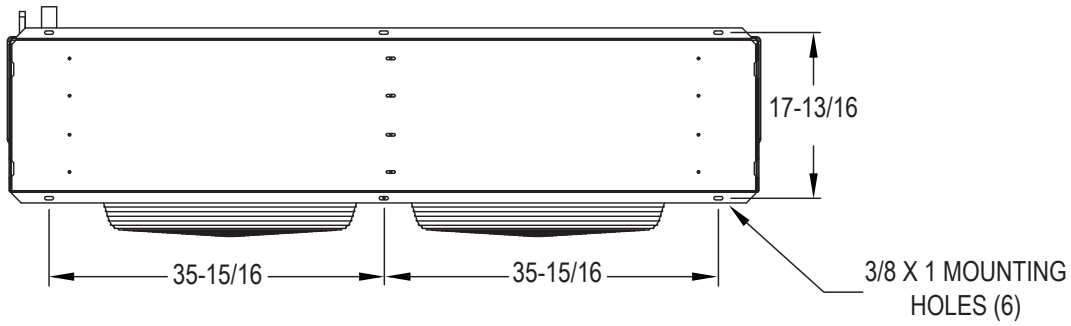
Front View



Side View



Top View

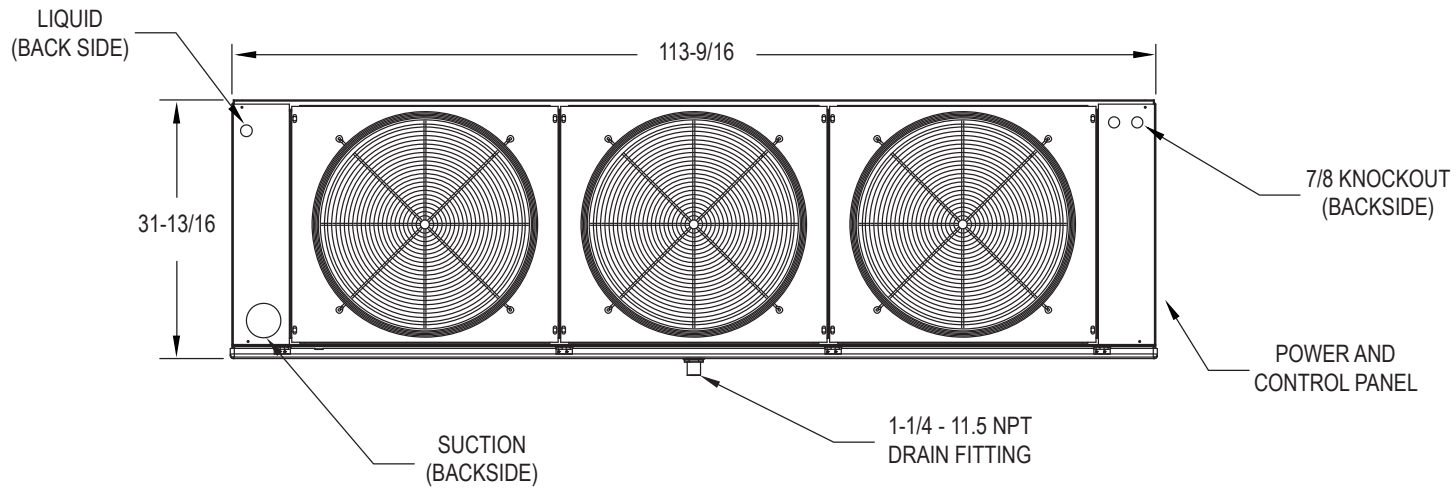


All mounting holes are 3/8" diameter
All dimensions are in inches

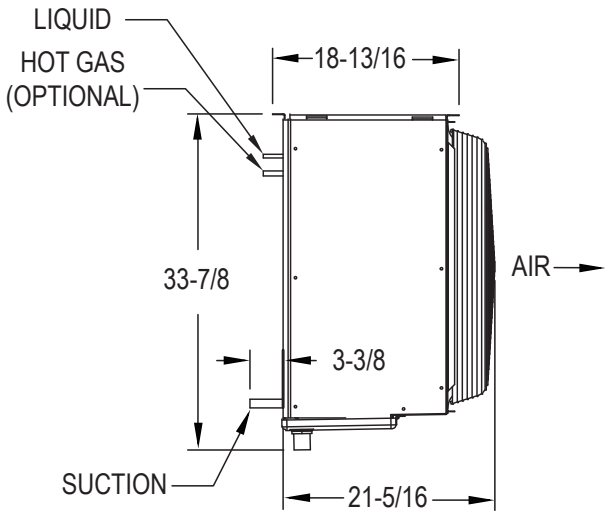
PHYSICAL DIMENSIONS

Figure 3: Three Fan

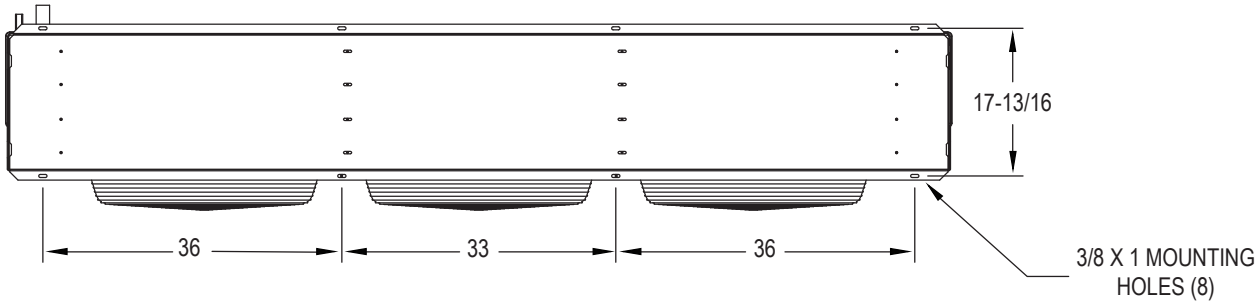
Front View



Side View



Top View



All mounting holes are 3/8" diameter
All dimensions are in inches

SHIPPING INFORMATION

Figure 1-4: Shipping information

No. of Fans	Shipping Dimensions (Inches)			Shipping Weight (Lbs)
	L	W	H	
1	60	43-1/4	48-1/2	346
2	93	43-1/4	48-1/2	510
3	120	43-1/4	48-1/2	673

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.

SPECIFICATIONS // ALL MODELS

Department of Energy Annual Walk-In Energy Factor (AWEF) Ratings

Base Model No.	Defrost Type	FPI	AWEF
COOLER MODELS[1]			
RM6A182*DA	Air Defrost	6	9
RM6A220*DA	Air Defrost	6	9
RM6A276*DA	Air Defrost	6	9
RM6A370*DA	Air Defrost	6	9
RM6A442*DA	Air Defrost	6	9
RM6A549*DA	Air Defrost	6	9
RM6A658*DA	Air Defrost	6	9
RM6D181*DA	Electric Defrost	6	9
RM6D219*DA	Electric Defrost	6	9
RM6D275*DA	Electric Defrost	6	9
RM6D369*DA	Electric Defrost	6	9
RM6D441*DA	Electric Defrost	6	9
RM6D548*DA	Electric Defrost	6	9
RM6D657*DA	Electric Defrost	6	9
RM6*153*DA	Hot Gas Defrost	6	9
RM6*184*DA	Hot Gas Defrost	6	9
RM6*311*DA	Hot Gas Defrost	6	9
RM6*374*DA	Hot Gas Defrost	6	9
RM6*469*DA	Hot Gas Defrost	6	9
RM6*564*DA	Hot Gas Defrost	6	9

Department of Energy Annual Walk-In Energy Factor (AWEF) Ratings

Base Model No.	Defrost Type	FPI	AWEF
FREEZER MODELS[2]			
RM6E153*DA	Electric Defrost	6	4.15
RM6E184*DA	Electric Defrost	6	4.15
RM6E311*DA	Electric Defrost	6	4.15
RM6E374*DA	Electric Defrost	6	4.15
RM6E469*DA	Electric Defrost	6	4.15
RM6E564*DA	Electric Defrost	6	4.15
RM4E110*DA	Electric Defrost	4	4.15
RM4E143*DA	Electric Defrost	4	4.15
RM4E232*DA	Electric Defrost	4	4.15
RM4E288*DA	Electric Defrost	4	4.15
RM4E336*DA	Electric Defrost	4	4.15
RM4E419*DA	Electric Defrost	4	4.15
RM6*153*DA	Hot Gas Defrost	6	4.15
RM6*184*DA	Hot Gas Defrost	6	4.15
RM6*311*DA	Hot Gas Defrost	6	4.15
RM6*374*DA	Hot Gas Defrost	6	4.15
RM6*469*DA	Hot Gas Defrost	6	4.15
RM6*564*DA	Hot Gas Defrost	6	4.15
RM4*110*DA	Hot Gas Defrost	4	4.15
RM4*143*DA	Hot Gas Defrost	4	4.15
RM4*232*DA	Hot Gas Defrost	4	4.15
RM4*288*DA	Hot Gas Defrost	4	4.15
RM4*336*DA	Hot Gas Defrost	4	4.15
RM4*419*DA	Hot Gas Defrost	4	4.15

* Each asterisk represents a variable character based on voltage ordered.
See page 4 for nomenclature.

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

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