

CENTER MOUNT EVAPORATOR

Technical Guide

Including A2L models meeting DOE minimum AWEF

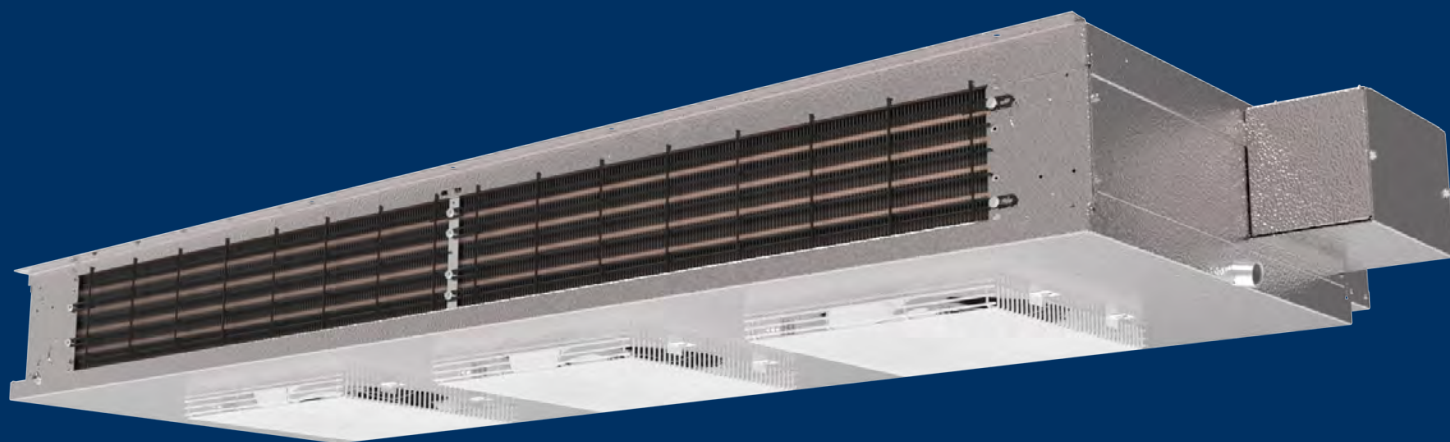


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FEATURES & BENEFITS

CABINET

- Air moves across the ceiling in both directions providing even air distribution throughout the cooler
- Compact, ceiling mount and center mount design allows for shelving and storage of product around all walls
- Heavy-gauge grained aluminum cabinet cleans easily and looks attractive
- Cabinet design features improved access panels on each end for easy access to electrical and refrigeration components
- Improved wire management and routing
- Quick disconnect, waterproof plug and receptacle for each motor in all models
- Molded fan guard is made of strong, durable, NSF and UL Sanitation rated lightweight and damage resistant plastic material
- Liquid line solenoid wire harness is factory-installed for quick installation

COIL

- High-efficiency aluminum fins with full collars cover mechanically expanded copper tubes
- Coils are dehydrated and sealed at the factory
- Electric defrost models incorporate high quality tubular heaters and a standard fixed defrost termination thermostat
- Generous coil surface gives proper compressor balance
- Standard adjustable defrost termination fan delay thermostat
- Internally enhanced tubing and fin design for higher efficiency
- Optimized heater placement with reduced heater wattages
- Fixed defrost termination for electric, adjustable defrost termination for hot gas

DRAIN PAN

- Hinged drain pan for faster, easier and safer access and serviceability
- Tapered mounting provides proper slope for condensate drainage to one end of the unit
- Double drain pan eliminates drain pan sweating

MOTOR

- Motor rail is design for maximum strength and durability
- Motors are life lubricated and thermal overload protected
- 2 Speed EC Motors are factory-installed

CONTROL OPTIONS

- intelliGen™ Refrigeration Controller (IRC) units come with a factory mounted controller, tested and calibrated with an electronic expansion valve, pressure transducer, temperature sensors, control board and user interface. Standard features include Door Sensor, Product Load Input and Alarm Output.
- Optional Factory or Field installable intelliGen Webserver Card (iWC) enables local and remote monitoring on any Phone, Tablet or PC.
- Optional Factory or Field installable intelliGen Integration Card (iIC) enables connectivity to BACnet and Modbus.

OTHER OPTIONS

- Factory installed mounted components are available in these configurations:
- Pre-assembled units available with mounted TXV, liquid line solenoid valve and room thermostat
- Mounted TXV
- Mounted TXV and solenoid valve
- Units available with stainless steel housing and drain pan
- Air defrost units are available with various coil coatings options

A2L FEATURES AND OPTIONS

- A2L and A1 dual refrigerants compatible models
- Factory mounted Refrigerant Detection System (RDS)
 - Mounted refrigerant leak detection sensors
 - Mounted refrigerant leak mitigation controller
 - Early warning leak detection with relay output for external alert devices
 - Mitigation alarm with relay output for external alarm devices
- Base model option available with or without RDS
- Field mounted Refrigerant Detection System kit available.
- Protection grill for evaporator coil
- Piping protection guards for refrigerant line connections
- Red tags on service valves and connection points as indicators for A2L refrigerants
- A2L labels to meet regulatory requirement

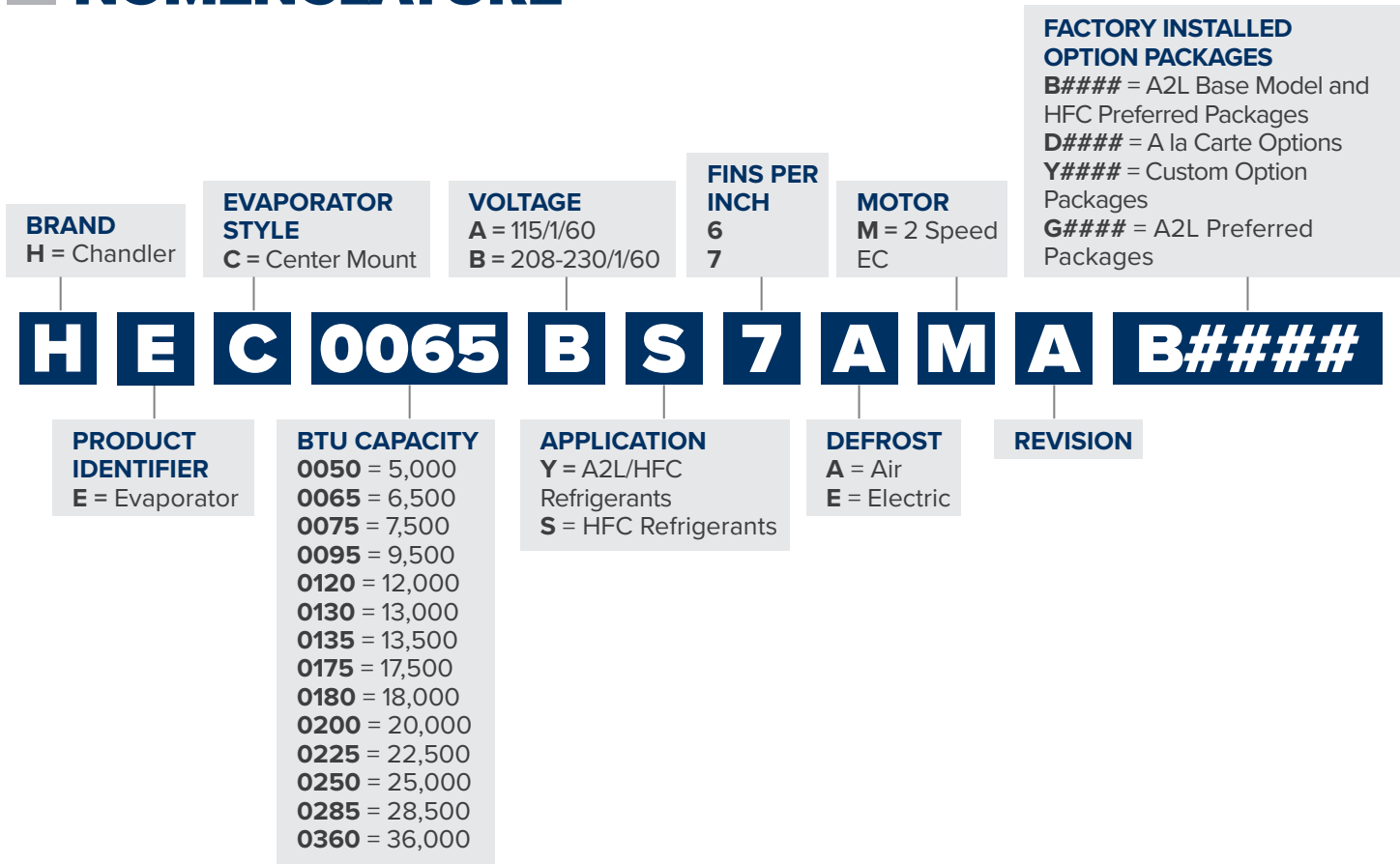
OUTSTANDING FEATURES



Table 1: Capacity Correction Factors

Electric and Hot Gas Defrost Units				
Saturated Suction Temperature °F	+20	-10	-20	-30
Saturated Suction Temperature °C	-7	-23	-29	-34
Multiply Capacity By	1.15	1.04	1.00	0.90

NOMENCLATURE



PREFERRED OPTION PACKAGES

Package	Description
B0200	intelliGen Refrigeration Controller (R-404A/R-448A/R-449A)
B0201	intelliGen Refrigeration Controller (R-407A/C/F)
B0403	Mounted Components (TXV, Solenoid Valve, Elec. T'stat - (R-404A)
B0404	Mounted Components (TXV, Solenoid Valve, Elec. T'stat - (R-407A/C/F)
B0405	Mounted Components (TXV, Solenoid Valve, Elec. T'stat - (R-448A/R-449A)
B0000	A2L/HFC Base Model
G0000	Standard Base with RDS
G0210	Standard Base with RDS + intelliGen™ (R-455A)
G0211	Standard Base with RDS + intelliGen™ (R-454C)
G0212	Standard Base with RDS + intelliGen™ (R-454A)
G0410	Standard Base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat - (R-455A)
G0411	Standard Base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat - (R-454C)
G0412	Standard Base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat - (R-454A)

A2L PERFORMANCE DATA

Application Capacity: Air Defrost- 60 Hz

Please consult AWEF table on page 18 to confirm model meets DOE minimum AWEF

	R454A			R454C					
	Application Capacity¹			Application Capacity¹					
	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0065*Y7AMA	6,500	1,905	75	5,300	1,553	72	1	610	1,036
HEC0095*Y7AMA	9,200	2,696	96	7,600	2,227	92	2	1,220	2,073
HEC0130*Y7AMA	13,100	3,839	96	10,800	3,165	92	2	1,220	2,073
HEC0175*Y7AMA	17,500	5,129	118	14,400	4,220	113	3	1,830	3,109
HEC0200*Y7AMA	20,100	5,891	118	16,500	4,836	113	3	1,830	3,109
HEC0225*Y7AMA	22,500	6,594	131	18,500	5,422	126	3	1,830	3,109
HEC0250*Y7AMA	24,900	7,297	135	20,500	6,008	129	4	2,440	4,146
HEC0285*Y7AMA	28,600	8,382	152	23,500	6,887	145	4	2,440	4,146
HEC0360*Y7AMA	36,100	10,580	172	29,700	8,704	165	5	3,050	5,182

	R455A					
	Application Capacity¹					
	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0065*Y7AMA	6,900	2,022	49	1	610	1,036
HEC0095*Y7AMA	9,800	2,872	62	2	1,220	2,073
HEC0130*Y7AMA	14,000	4,103	62	2	1,220	2,073
HEC0175*Y7AMA	18,700	5,480	76	3	1,830	3,109
HEC0200*Y7AMA	21,500	6,301	77	3	1,830	3,109
HEC0225*Y7AMA	24,100	7,063	85	3	1,830	3,109
HEC0250*Y7AMA	26,700	7,825	87	4	2,440	4,146
HEC0285*Y7AMA	30,600	8,968	98	4	2,440	4,146
HEC0360*Y7AMA	38,600	11,313	112	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

* = Electrical Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

A1 PERFORMANCE DATA

Application Capacity: Air Defrost- 60 Hz

Please consult AWEF table on page 18 to confirm model meets DOE minimum AWEF

New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
		Application Capacity ¹		Application Capacity ¹				
		10°F TD/25°F SST	6°C TD/4°C SST	10°F TD/25°F SST	6°C TD/4°C SST	No. of Fans	CFM	m³H
BTUH	Watts	BTUH	Watts					
HEC0065*±7AMA	TLH052	5,200	1,524	6,400	1,875	1	610	1,036
HEC0095*±7AMB	TLH076 TLH090	7,000	2,051	9,100	2,666	2	1,220	2,073
HEC0130*±7AMA	TLH102	9,100	2,666	13,000	3,809	2	1,220	2,073
HEC0175*±7AMA	TLH108	10,800	3,164	17,350	5,084	3	1,830	3,109
HEC0200*±7AMA	TLH134	13,400	3,926	19,900	5,831	3	1,830	3,109
HEC0225*±7AMA	TLH156	15,600	4,571	22,300	6,534	3	1,830	3,109
HEC0250*±7AMA	TLH179	17,900	5,245	24,700	7,237	4	2,440	4,146
HEC0285*±7AMA	TLH208	20,800	6,094	28,300	8,292	4	2,440	4,146
HEC0360*±7AMA	TLH249	24,900	7,296	35,750	10,475	5	3,050	5,182

New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
		Application Capacity¹		Application Capacity¹				
		10°F TD/25°F SST	6°C TD/4°C SST	10°F TD/25°F SST	6°C TD/4°C SST	No. of Fans	CFM	m³H
BTUH	Watts	BTUH	Watts					
HEC0065*±7AMA	TLH052	6,400	1,875	6,400	1,875	1	610	1,036
HEC0095*±7AMB	TLH076 TLH090	9,100	2,666	9,100	2,666	2	1,220	2,073
HEC0130*±7AMA	TLH102	13,000	3,809	13,000	3,809	2	1,220	2,073
HEC0175*±7AMA	TLH108	17,350	5,084	17,350	5,084	3	1,830	3,109
HEC0200*±7AMA	TLH134	19,900	5,831	19,900	5,831	3	1,830	3,109
HEC0225*±7AMA	TLH156	22,300	6,534	22,300	6,534	3	1,830	3,109
HEC0250*±7AMA	TLH179	24,700	7,237	24,700	7,237	4	2,440	4,146
HEC0285*±7AMA	TLH208	28,300	8,292	28,300	8,292	4	2,440	4,146
HEC0360*±7AMA	TLH249	35,750	10,475	35,750	10,475	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

* = Electrical Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

SPECIFICATIONS

Air Defrost- 60 Hz

Please consult AWEF table on page 18 to confirm model meets DOE minimum AWEF

New Model	HP	2 Speed EC Motor							
		115/1/60				208-230/1/60			
		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD
HEC0065*±7AMA	1/20	0.8	55	1.1	20	0.4	55	0.6	15
HEC0095*±7AMA	1/20	1.7	110	2.0	20	0.8	110	1.1	15
HEC0130*±7AMA	1/20	1.7	110	2.0	20	0.8	110	1.1	15
HEC0175*±7AMA	1/20	2.5	165	2.9	20	1.3	165	1.6	15
HEC0200*±7AMA	1/20	2.5	165	2.9	20	1.3	165	1.6	15
HEC0225*±7AMA	1/20	2.5	165	2.9	20	1.3	165	1.6	15
HEC0250*±7AMA	1/20	3.4	220	3.8	20	1.7	220	2.1	15
HEC0285*±7AMA	1/20	3.4	220	3.8	20	1.7	220	2.1	15
HEC0360*±7AMA	1/20	4.2	275	4.7	20	2.1	275	2.6	15

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

* = Electrical Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

A2L PERFORMANCE DATA

Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 19 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 4) if using Saturated Suction Temperatures different than listed in the information below

	R454A			R454C					
	Application Capacity ¹			Application Capacity ¹					
	10°F TD/-20°F SST	6°C TD/-29°C SST	Room Area Minimum	10°F TD/-20°F SST	6°C TD/-29°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0050BY6EMA	5,300	1,553	74	4,600	1,348	71	1	610	1,036
HEC0075BY6EMA	8,400	2,462	86	7,200	2,110	83	2	1,220	2,073
HEC0120BY6EMA	13,200	3,869	103	11,300	3,312	99	3	1,830	3,109
HEC0135BY6EMA	15,200	4,455	116	13,000	3,810	112	3	1,830	3,109
HEC0180BY6EMA	20,500	6,008	150	17,500	5,129	144	4	2,440	4,146
HEC0255BY6EMA	24,700	7,239	171	21,200	6,213	164	5	3,050	5,182
HEC0280BY6EMA	27,200	7,972	171	23,200	6,799	164	5	3,050	5,182

	R455A					
	Application Capacity¹					
	10°F TD/-20°F SST	6°C TD/-29°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0050BY6EMA	5,200	1,524	48	1	610	1,036
HEC0075BY6EMA	8,300	2,432	56	2	1,220	2,073
HEC0120BY6EMA	12,900	3,781	67	3	1,830	3,109
HEC0135BY6EMA	14,900	4,367	75	3	1,830	3,109
HEC0180BY6EMA	20,000	5,861	97	4	2,440	4,146
HEC0255BY6EMA	24,200	7,092	111	5	3,050	5,182
HEC0280BY6EMA	26,600	7,796	111	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov
Net Capacity is available upon request

A1 PERFORMANCE DATA

Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 19 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 4) if using Saturated Suction Temperatures different than listed in the information below

		R-404A/R-507A		R-448A/R-449A				
		Application Capacity ¹		Application Capacity ¹				
	Legacy Model	10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	Fan Data		
New Model		BTUH	Watts	BTUH	Watts	No. of Fans	CFM	m³H
HEC0050B±6EMA	TLL040	4,000	1,172	5,500	1,612	1	610	1,036
HEC0075B±6EMA	TLL054 TLL065	6,500	1,905	8,700	2,549	2	1,220	2,073
HEC0120B±6EMA	TLL090	9,000	2,637	13,600	3,985	3	1,830	3,109
HEC0135B±6EMA	TLL130	13,000	3,809	15,700	4,600	3	1,830	3,109
HEC0180B±6EMA	TLL174	17,400	5,098	21,100	6,182	4	2,440	4,146
HEC0255B±6EMA	N/A	18,000	5,274	25,500	7,472	5	3,050	5,182
HEC0280B±6EMA	N/A	19,000	5,567	28,000	8,204	5	3,050	5,182

		R-407A/R-407F		R-407C				
		Application Capacity ¹		Application Capacity ¹				
	Legacy Model	10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	Fan Data		
New Model		BTUH	Watts	BTUH	Watts	No. of Fans	CFM	m³H
HEC0050B±6EMA	TLL040	5,500	1,612	5,500	1,612	1	610	1,036
HEC0075B±6EMA	TLL054 TLL065	8,700	2,549	8,700	2,549	2	1,220	2,073
HEC0120B±6EMA	TLL090	13,600	3,985	13,600	3,985	3	1,830	3,109
HEC0135B±6EMA	TLL130	15,700	4,600	15,700	4,600	3	1,830	3,109
HEC0180B±6EMA	TLL174	21,100	6,182	21,100	6,182	4	2,440	4,146
HEC0255B±6EMA	N/A	25,500	7,472	25,500	7,472	5	3,050	5,182
HEC0280B±6EMA	N/A	28,000	8,204	28,000	8,204	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

A2L PERFORMANCE DATA

Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 19 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 4) if using Saturated Suction Temperatures different than listed in the information below

	R454A			R454C					
	Application Capacity¹			Application Capacity¹					
	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0050BY6EMA	6,400	1,876	75	5,200	1,524	72	1	610	1,036
HEC0075BY6EMA	10,100	2,960	87	8,300	2,432	84	2	1,220	2,073
HEC0120BY6EMA	15,800	4,631	104	13,000	3,810	100	3	1,830	3,109
HEC0135BY6EMA	18,200	5,334	117	15,000	4,396	112	3	1,830	3,109
HEC0180BY6EMA	24,500	7,180	152	20,100	5,891	146	4	2,440	4,146
HEC0255BY6EMA	29,600	8,675	172	24,300	7,122	165	5	3,050	5,182
HEC0280BY6EMA	32,500	9,525	172	26,700	7,825	165	5	3,050	5,182

	R455A					
	Application Capacity¹					
	10°F TD/25°F SST	6°C TD/4°C SST	Room Area Minimum	Fan Data		
New Model	BTUH	Watts	Sq. Ft.	No. of Fans	CFM	m³H
HEC0050BY6EMA	6,800	1,993	49	1	610	1,036
HEC0075BY6EMA	10,800	3,165	57	2	1,220	2,073
HEC0120BY6EMA	16,900	4,953	68	3	1,830	3,109
HEC0135BY6EMA	19,500	5,715	76	3	1,830	3,109
HEC0180BY6EMA	26,200	7,678	98	4	2,440	4,146
HEC0255BY6EMA	31,700	9,290	112	5	3,050	5,182
HEC0280BY6EMA	34,800	10,199	112	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

* = Number of fans increases from legacy to new model

Net Capacity is available upon request

A1 PERFORMANCE DATA

Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 00 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 4) if using Saturated Suction Temperatures different than listed in the information below

		R-404A/R-507A		R-448A/R-449A				
		Application Capacity ¹		Application Capacity ¹				
	Legacy Model	10°F TD/25°F SST	6°C TD/4°C SST	10°F TD/25°F SST	6°C TD/4°C SST	Fan Data		
New Model		BTUH	Watts	BTUH	Watts	No. of Fans	CFM	m³H
HEC0050B±6EMA	TLL040	4,600	1,348	6,325	1,853	1	610	1,036
HEC0075B±6EMA	TLL054 TLL065	7,450	2,183	10,005	2,931	2	1,220	2,073
HEC0120B±6EMA	TLL090	10,350	3,033	15,640	4,583	3	1,830	3,109
HEC0135B±6EMA	TLL130	14,950	4,380	18,055	5,290	3	1,830	3,109
HEC0180B±6EMA	TLL174	20,000	5,860	24,265	7,110	4	2,440	4,146
HEC0255B±6EMA	N/A	20,700	6,065	29,325	8,592	5	3,050	5,182
HEC0280B±6EMA	N/A	21,850	6,402	32,200	9,435	5	3,050	5,182

		R-407A/R-407F		R-407C				
		Application Capacity ¹		Application Capacity ¹				
	Legacy Model	10°F TD/25°F SST	6°C TD/4°C SST	10°F TD/25°F SST	6°C TD/4°C SST	Fan Data		
New Model		BTUH	Watts	BTUH	Watts	No. of Fans	CFM	m³H
HEC0050B±6EMA	TLL040	6,325	1,853	6,325	1,853	1	610	1,036
HEC0075B±6EMA	TLL054 TLL065	10,005	2,931	10,005	2,931	2	1,220	2,073
HEC0120B±6EMA	TLL090	15,640	4,583	15,640	4,583	3	1,830	3,109
HEC0135B±6EMA	TLL130	18,055	5,290	18,055	5,290	3	1,830	3,109
HEC0180B±6EMA	TLL174	24,265	7,110	24,265	7,110	4	2,440	4,146
HEC0255B±6EMA	N/A	29,325	8,592	29,325	8,592	5	3,050	5,182
HEC0280B±6EMA	N/A	32,200	9,435	32,200	9,435	5	3,050	5,182

Notes:

¹ = Capacities shown are Application Capacities reflecting nominal operation at 10°F TD. For models within the scope of the DOE AWEF (Annual Walk-in Energy Factor) standard, the Net Capacity is determined by the AHRI 1250 test method. DOE will publish this compliance data at www.regulations.doe.gov

* = Number of fans increases from legacy to new model

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

SPECIFICATIONS

Electric Defrost- 60 Hz

Please consult AWEF table on page 00 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 4) if using Saturated Suction Temperatures different than listed in the information below

New Model	HP	2 Speed EC Motor (Totally Enclosed)				Defrost Heaters	
		208-230/1/60					
		Amps	Watts	MCA	MOPD	Watts	Total Amps
HEC0050B±6EMA	1/20	0.4	55	0.6	15	1,200	5.3
HEC0075B±6EMA	1/20	0.8	110	1.1	15	2,000	8.7
HEC0120B±6EMA	1/20	1.3	165	1.6	15	2,400	10.5
HEC0135B±6EMA	1/20	1.3	165	1.6	15	3,600	15.7
HEC0180B±6EMA	1/20	1.7	220	2.1	15	4,800	20.9
HEC0255B±6EMA	1/20	2.1	275	2.6	15	6,000	26.1
HEC0280B±6EMA	1/20	2.1	275	2.6	15	6,000	26.1

PHYSICAL DATA

Air Defrost

Model	No. of Fans	Coil Inlet OD	Suction OD	Equalizer OD	Drain MPT	Approx. Net Weight	
						lb	kg
HEC0065*±7AMA	1	3/8	1 - 1/8	1/4	3/4	55	25
HEC0095*±7AMA	2	3/8	1 - 1/8	1/4	3/4	105	48
HEC0130*±7AMA	2	3/8	1 - 1/8	1/4	3/4	105	48
HEC0175*±7AMA	3	3/8	1 - 1/8	1/4	3/4	131	59
HEC0200*±7AMA	3	3/8	1 - 1/8	1/4	3/4	146	66
HEC0225*±7AMA	3	3/8	1 - 1/8	1/4	3/4	153	69
HEC0250*±7AMA	4	3/8	1 - 1/8	1/4	3/4	185	84
HEC0285*±7AMA	4	3/8	1 - 1/8	1/4	3/4	203	92
HEC0360*±7AMA	5	3/8	1 - 1/8	1/4	3/4	254	115

Electric Defrost

Model	No. of Fans	Coil Inlet OD	Suction OD	Equalizer OD	Drain MPT	Approx. Net Weight	
						lb	kg
HEC0050B±6EMA	1	3/8	1 - 1/8	1/4	3/4	113	51
HEC0075B±6EMA	2	3/8	1 - 1/8	1/4	3/4	149	68
HEC0120B±6EMA	3	3/8	1 - 1/8	1/4	3/4	197	89
HEC0135B±6EMA	3	3/8	1 - 1/8	1/4	3/4	214	97
HEC0180B±6EMA	4	3/8	1 - 1/8	1/4	3/4	268	122
HEC0255B±6EMA	5	1/2	1 - 1/8	1/4	3/4	296	134
HEC0280B±6EMA	5	1/2	1 - 1/8	1/4	3/4	296	134

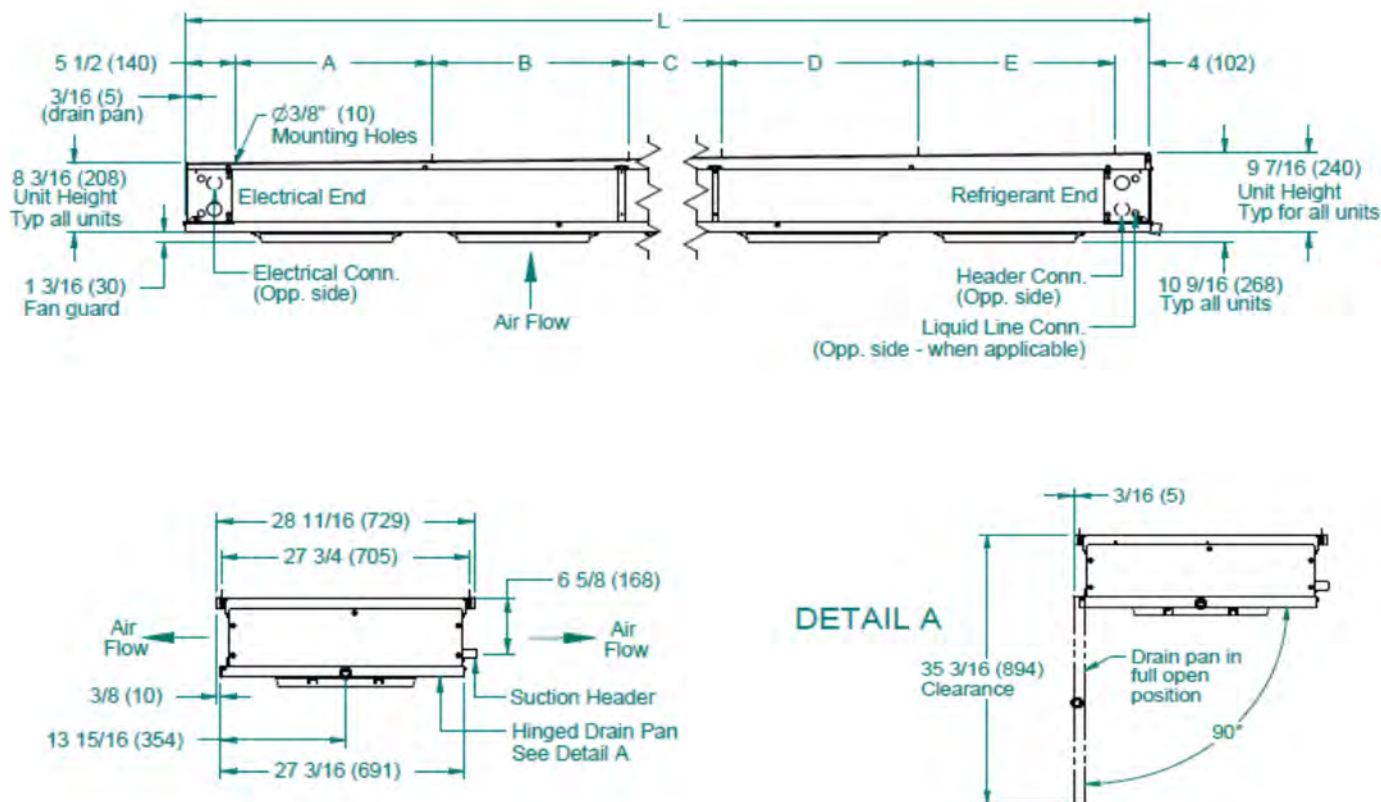
Notes:

* = Electrical Code Designator (see Nomenclature details)

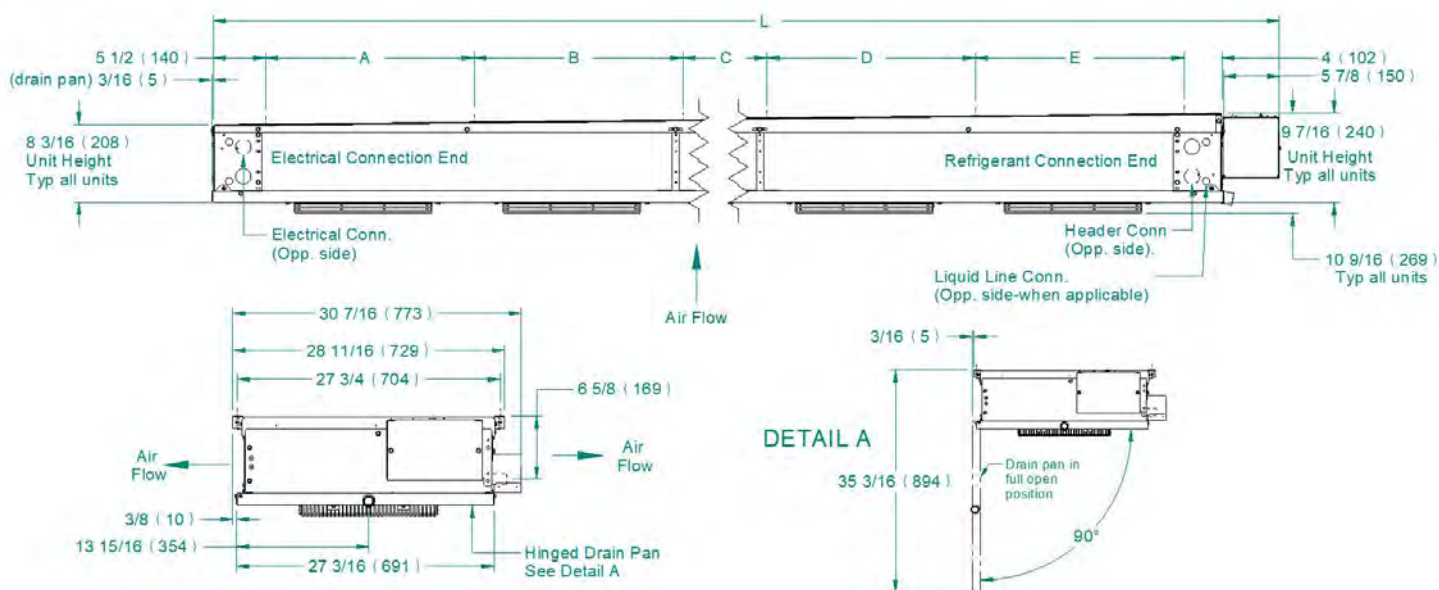
All connections are in “

DIMENSIONAL DRAWINGS

A1 Dimensional Drawings



A2L Dimensional Drawings



DIMENSIONAL DATA

A1 Dimensional Data For Air Defrost

Model	No. of Fans	L	A	B	C	D	E
		Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)
HEC0065*S7AMA	1	31 1/2 (800)	22 (559)	-	-	-	-
HEC0095*S7AMB	2	53 1/2 (1359)	22 (559)	22 (559)	-	-	-
HEC0130*S7AMA	2	53 1/2 (1359)	22 (559)	22 (559)	-	-	-
HEC0175*S7AMA	3	75 1/2 (1918)	22 (559)	22 (559)	22 (559)	-	-
HEC0200*S7AMA	3	75 1/2 (1918)	22 (559)	22 (559)	22 (559)	-	-
HEC0225*S7AMA	3	75 1/2 (1918)	22 (559)	22 (559)	22 (559)	-	-
HEC0250*S7AMA	4	97 1/2 (2477)	22 (559)	22 (559)	22 (559)	22 (559)	-
HEC0285*S7AMA	4	97 1/2 (2477)	22 (559)	22 (559)	22 (559)	22 (559)	-
HEC0360*S7AMA	5	119 1/2 (3035)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)

A2L Dimensional Data For Air Defrost

Model	No. of Fans	L	A	B	C	D	E
		Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)
HEC0065*Y7AMA	1	37 1/2 (954)	22 (559)	-	-	-	-
HEC0095*Y7AMA	2	59 1/2 (1513)	22 (559)	22 (559)	-	-	-
HEC0130*Y7AMA	2	59 1/2 (1513)	22 (559)	22 (559)	-	-	-
HEC0175*Y7AMA	3	81 1/2 (2071)	22 (559)	22 (559)	22 (559)	-	-
HEC0200*Y7AMA	3	81 1/2 (2071)	22 (559)	22 (559)	22 (559)	-	-
HEC0225*Y7AMA	3	81 1/2 (2071)	22 (559)	22 (559)	22 (559)	-	-
HEC0250*Y7AMA	4	103 1/2 (2630)	22 (559)	22 (559)	22 (559)	22 (559)	-
HEC0285*Y7AMA	4	103 1/2 (2630)	22 (559)	22 (559)	22 (559)	22 (559)	-
HEC0360*Y7AMA	5	125 1/2 (3189)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)

Notes:

* = Electrical Code Designator (see Nomenclature details)

DIMENSIONAL DATA

A1 Dimensional Data For Electric Defrost

Model	No. of Fans	L	A	B	C	D	E
		Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)
HEC0050B±6EMA	1	31 1/2 (800)	22 (559)	-	-	-	
HEC0075B±6EMA	2	53 1/2 (1359)	22 (559)	22 (559)	-	-	
HEC0120B±6EMA	3	75 1/2 (1918)	22 (559)	22 (559)	22 (559)	-	
HEC0135B±6EMA	3	75 1/2 (1918)	22 (559)	22 (559)	22 (559)	-	
HEC0180B±6EMA	4	97 1/2 (1918)	22 (559)	22 (559)	22 (559)	22 (559)	
HEC0255B±6EMA	5	119 1/2 (3035)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)
HEC0280B±6EMA	5	119 1/2 (3035)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)

A2L Dimensional Data For Electric Defrost

Model	No. of Fans	L	A	B	C	D	E
		Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)	Inches (mm)
HEC0050BY6EMA	1	37 1/2 (954)	22 (559)	-	-	-	-
HEC0075BY6EMA	2	59 1/2 (1513)	22 (559)	22 (559)	-	-	-
HEC0120BY6EMA	3	81 1/2 (2071)	22 (559)	22 (559)	22 (559)	-	-
HEC0135BY6EMA	3	81 1/2 (2071)	22 (559)	22 (559)	22 (559)	-	-
HEC0180BY6EMA	4	103 1/2 (2630)	22 (559)	22 (559)	22 (559)	22 (559)	-
HEC0255BY6EMA	5	125 1/2 (3189)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)
HEC0280BY6EMA	5	125 1/2 (3189)	22 (559)	22 (559)	22 (559)	22 (559)	22 (559)

Notes:

* = Electrical Code Designator (see Nomenclature details)

DOE Rated AWEF

 AWEF DATA

Air Defrost

FPI	Model	Cooler						
		R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C	R-454A	R-454C	R-455A
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF
7	HEC0065*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0095*±7AMA	-	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0130*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0175*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0200*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0225*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0250*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0285*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
7	HEC0360*±7AMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

Revision for all Y models (A2L/HFC) is Rev A

DOE Rated AWEF

AWEF DATA

Electric Defrost

FPI	Model	Freezer						
		R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C	R-454A	R-454C	R-455A
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF
6	HEC0050B±6EMA	3.96	3.99	3.99	3.98	3.98	3.97	3.98
6	HEC0075B±6EMA	4.00	4.04	4.04	4.02	4.03	4.01	4.02
6	HEC0120B±6EMA	4.05	4.12	4.11	4.09	4.10	4.06	4.09
6	HEC0135B±6EMA	4.07	4.15	4.14	4.12	4.13	4.09	4.12
6	HEC0180B±6EMA	4.12	4.15	4.15	4.15	4.15	4.15	4.15
6	HEC0255B±6EMA	4.15	4.15	4.15	4.15	4.15	4.15	4.15
6	HEC0280B±6EMA	4.15	4.15	4.15	4.15	4.15	4.15	4.15

FPI	Model	Cooler						
		R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C	R-454A	R-454C	R-455A
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF
6	HEC0050B±6EMA	-	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0075B±6EMA	-	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0120B±6EMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0135B±6EMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0180B±6EMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0255B±6EMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0
6	HEC0280B±6EMA	9.0	9.0	9.0	9.0	9.0	9.0	9.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

REPLACEMENT PARTS

Cabinet Components

Part #	Description	No. of Fans
40420101	Drain Pan - Stucco	1
40420201	Drain Pan - Stucco	2
40420301	Drain Pan - Stucco	3
40420401	Drain Pan - Stucco	4
40420501	Drain Pan - Stucco	5

Electrical Components

Part #	Description
22597101	Terminal Board - Air Defrost
22597701	Terminal Board - Electric Defrost
22521901	2SP RELAY 24V
22532001	2SP RELAY 120V
22505201	2SP RELAY 240V
4267W	Defrost Termination / Fan Delay Thermostat

Motor/Fan Blade/Fan Guards

Part #	Description
25326801S	Motor 115/1/60 - 2 Speed EC
25326901S	Motor 208-230/1/60 - 2 Speed EC
5110E	Fan Blade
23106201	Fan Guard - Plastic
5055F	Fan Guard - Metal
41417501	Motor Mount Plate

Electric Components

Part #	Description	No. of Fans
4400S	Coil Heater	1
4401S	Coil Heater	2
4402S	Coil Heater - 4 Row Coil	3
4403S	Coil Heater - 5 Row Coil	3
4404S	Coil Heater	4
4405S	Coil Heater	5

REPLACEMENT PARTS

A2L Refrigeration Detection System

Part #	Description
A2L Refrigeration Detection System (RDS) Kit	
89937701	ASSY-A2L RDS FIELD INSTALL, CM/ LVCM
Field Installed Safety Shut Off Valve	
90050201	ASSY-A2L SOLENOID SHUT-OFF VLV 3/8 LIQ-1
90050202	ASSY-A2L SOLENOID SHUT-OFF VLV 3/8 LIQ-2

Part #	Description
Field Installed Safety Check Valve	
90050304	ASSY-A2L CHECK SHUT-OFF VALVE 1-1/8 SUC
90050305	ASSY-A2L CHECK SHUT-OFF VALVE 1-3/8 SUC
A2L Mitigation Sensor (Replacement Part)	
28915901S	A2L SENSOR REPLACEMENT PART
A2L Mitigation Controller (Replacement Part)	
28928001S	A2L CONTROL BOARD
Control Power Transformer	
22529601	TRANSFORMER, 120V-24V 40 VA
22529602	TRANSFORMER, 208/240V-24V 40 VA

STANDARD NOZZLE SELECTION

Air Defrost

Medium Temperature (25°F SST)											
Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Nozzle Selections						
		OD	Length		R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C	R-454A	R-454C	R-455A
HEC0065*S7AMA	1	3/16	18	4	L - 1/3	L - 1/2	L - 1/3	L - 1/3	L-1/3	L-1/3	L-1/2
HEC0095*S7AMB	2	3/16	18	4	L - 1/2	L - 3/4	L - 1/2	L - 1/2	L-1/2	L-1/2	L-3/4
HEC0130*S7AMA	2	3/16	18	4	L - 3/4	L - 1	L - 3/4	L - 3/4	L-3/4	L-3/4	L-1
HEC0175*S7AMA	3	3/16	18	4	L - 3/4	L - 1 1/2	L - 1	L - 1	L-1	L-1	L-1 1/2
HEC0200*S7AMA	3	3/16	18	6	L - 1	L - 1 1/2	L - 1	L - 1	L-1 1/2	L-1	L-1 1/2
HEC0225*S7AMA	3	3/16	24	8	L - 1	L - 2	L - 1 1/2	L - 1 1/2	L-1 1/2	L-1 1/2	L-1 1/2
HEC0250*S7AMA	4	3/16	18	6	L - 1 1/2	L - 2	L - 1 1/2	L - 1 1/2	L-1 1/2	L-1 1/2	L-2
HEC0285*S7AMA	4	3/16	24	8	L - 1 1/2	L - 2 1/2	L - 1 1/2	L - 1 1/2	L-1 1/2	L-1 1/2	L-2
HEC0360*S7AMA	5	3/16	18	10	L - 2	L - 3	L - 2	L - 2	L-2	L-2	L-2 1/2

Electric Defrost

Low Temperature (-20°F SST)											
Model	No. of Fans	Distributor Tube (in.)		No. of Circuits	Nozzle Selections						
		OD	Length		R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C	R-454A	R-454C	R-455A
HEC0050BS6EMA	1	3/16	18	4	L - 1/2	L - 1	L - 3/4	L - 1/2	L - 3/4	L - 3/4	L - 3/4
HEC0075BS6EMA	2	3/16	18	4	L - 3/4	L - 1 1/2	L - 1	L - 1	L - 1	L - 3/4	L - 1
HEC0120BS6EMA	3	3/16	18	6	L - 1 1/2	L - 2	L - 1 1/2	L - 1 1/2	L - 1 1/2	L - 1 1/2	L - 1 1/2
HEC0135BS6EMA	3	3/16	24	8	L - 2	L - 2 1/2	L - 1 1/2	L - 1 1/2	L - 1 1/2	L - 1 1/2	L - 2
HEC0180BS6EMA	4	3/16	18	10	L - 2	L - 4	L - 2 1/2	L - 2	L - 2	L - 2	L - 2 1/2
HEC0255BS6EMA	5	3/16	18	10	L - 2 1/2	L - 4	L - 3	L - 3	L - 2 1/2	L - 2 1/2	L - 2 1/2
HEC0280BS6EMA	5	3/16	18	10	L - 2 1/2	L - 4	L - 3	L - 3	L - 2 1/2	L - 2 1/2	L - 3

Notes:

* = Electrical Code Designator (see Nomenclature details)

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Since product improvement is a continuing effort, we reserve the right to make changes in specifications without notice.

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