

# LOW PROFILE UNIT COOLERS

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Technical Guide  
Including A2L models meeting DOE minimum AWEF

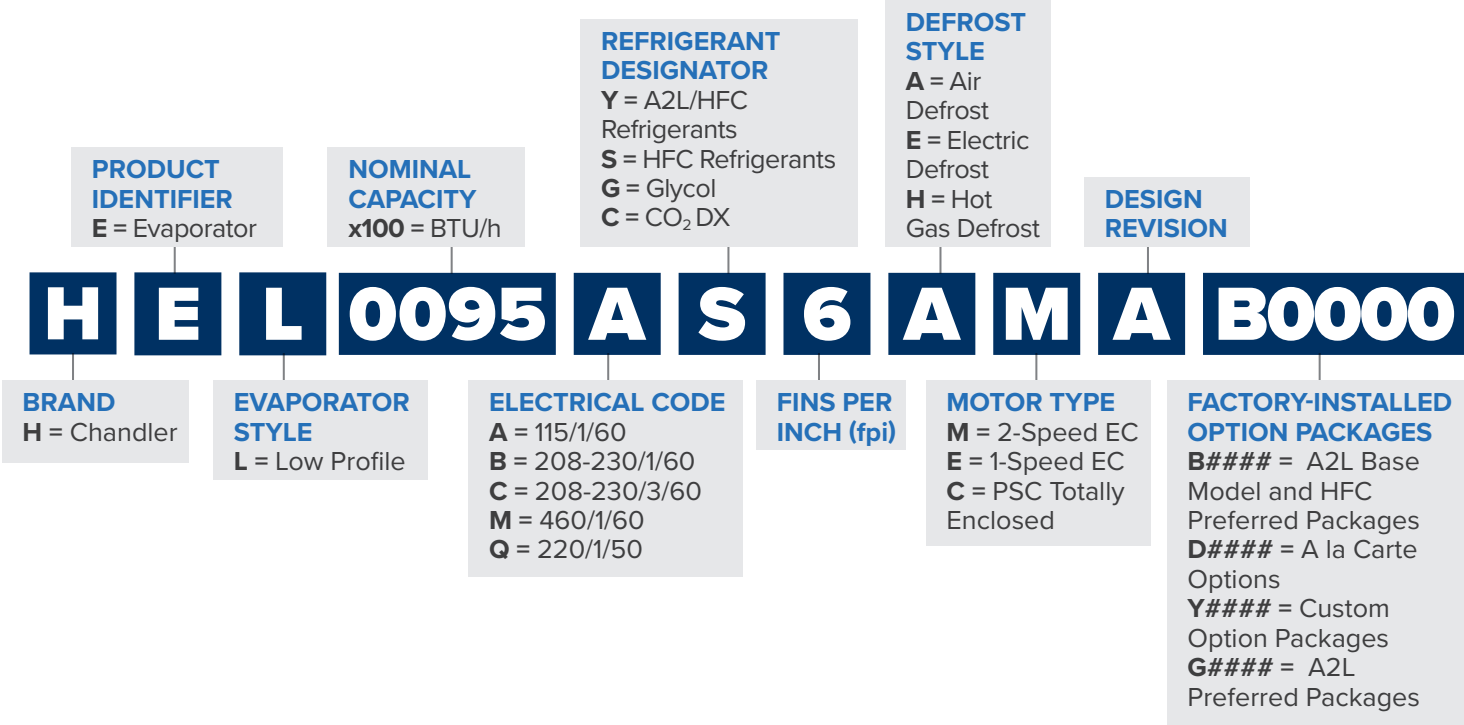


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# NOMENCLATURE



## PREFERRED OPTION PACKAGES

(HFC Refrigerants)

Package	Description (standard base model features + indicated options HELow)
B0000	A2L/HFC Base Model
B0200	intelliGen Refrigeration Controller (R-404A/R-448A/R-449A)
B0201	intelliGen Refrigeration Controller (R-407A/R-407C/R-407F)
B0403	Mounted Components (TXV, Solenoid Valve, Electronic T'Stat – R-404A)
B0404	Mounted Components (TXV, Solenoid Valve, Electronic T'Stat – R-407A/C/F)
B0405	Mounted Components (TXV, Solenoid Valve, Electronic T'Stat – R-448A/R-449A)
G0000	Standard base with RDS
G0210	Standard base with RDS + intelliGen™ (R455A)
G0211	Standard base with RDS + intelliGen™ (R454C)
G0212	Standard base with RDS + intelliGen™ (R454A)
G0410	Standard base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat (R455A)
G0411	Standard base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat (R454C)
G0412	Standard base with RDS + Mounted TXV + Solenoid Valve + Electronic T'Stat (R454A)

## PREFERRED OPTION PACKAGES

(CO<sub>2</sub> DX)

Package	Description (standard base model features + indicated options HELow)
B0500 Standard Base	<b>Danfoss EEV (120V) with 1/4" MPT Transducer Connection (Pressure Transducer not included)</b>
B0501	Danfoss EEV (120V) with 1/4" MPT Transducer Connection (Pressure Transducer not included) + Filter Drier
B0502	Sporlan EEV (120V) with 1/4" MPT Transducer Connection (Pressure Transducer not included) + Filter Drier
B0503	Danfoss EEV (120V) with Danfoss Pressure Transducer
B0504	Danfoss EEV (120V) with Danfoss Pressure Transducer + Filter Drier
B0505	Danfoss EEV (120V) with CPC Pressure Transducer
B0506	Danfoss EEV (120V) with CPC Pressure Transducer + Filter Drier
B0507	Sporlan EEV (120V) with Microthermo Pressure Transducer + Filter Drier

# FEATURES & BENEFITS

## CABINET

- Cabinet design features hinged, removable front access panels on each side for easy access to electrical and refrigeration components.
- Molded fan guard and access panels are made of strong, durable, NSF and UL Sanitation rated lightweight and damage-resistant molded plastic material.
- Quick-removal fan guard/motor assembly for easier servicing of air mover parts.
- Sweat connections to reduce potential for leaks.
- Liquid line solenoid wire harness is factory-installed for quick installation.

## COIL

- Internally enhanced tubing and fin design for higher efficiency.
- Coil heater slots have been enlarged for easier installation and replacement.
- Hot gas loop on bottom of coil for easier access is standard on hot gas defrost models.
- Fixed defrost termination for electric, adjustable defrost termination for hot gas.

## CONTROLS OPTIONS

- **intelliGen™ Refrigeration Controller (iRC)**
  - Factory mounted, 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 Field installable intelliGen™ Webserver Card (iWC) enables local and remote monitoring on any smart phone, tablet or PC.
  - Optional Field installable intelliGen™ Integration Card (iIC) enables connectivity to BACnet and Modbus.

## MOTORS

- Motors plug into wiring harness for easier servicing.
- 2-Speed EC motors standard on Air Defrost models.
- 1-Speed EC motors standard on Electric Defrost & Hot Gas Defrost models.

## DRAIN PAN

- Large diameter drain hole (3/4" ID) is located towards the back of the unit.
- Extended drain pan heaters for more uniform defrost throughout the drain pan and additional heat in end compartments.
- Hinged, removable drain pans allow for easy and safe access (3-6 fan units only).

## OTHER OPTIONS

- Units available with factory installed mounted components: Expansion Valve, Mechanical Room Thermostat, Solenoid Valve with Dual Voltage Coil.
- Units available with mounted TXV and mounted TXV with solenoid valve.
  - Pre-assembled units come with mounted TXV, liquid line solenoid valve and room thermostat.
  - Available in a master liquid line configuration.
  - Pre-charged units come with mounted TXV, liquid line solenoid valve, room thermostat and quick connect fittings.
- Units available with stainless steel housing and drain pan.
- All units come standard with aluminum fin, copper tube coils. Units available with various coil material / coating options including polyester fin coating, black electrostatic fin coating, copper fins and Bronz-Glow coil coating. Please review our price book for availability.
- Units available with insulated drain pan.

## 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

# FEATURES & BENEFITS

## 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

# A2L PERFORMANCE DATA

## Application Capacity: Air Defrost- 60 Hz

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	R454A				R454C				Fan Data		
	Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
HEL0045*Y6A^A	4,600	1,348	20	10	3,800	1,114	19	10	1	653	1,109
HEL0055*Y6A^A	6,200	1,817	23	10	5,100	1,495	22	10	1	610	1,036
HEL0060*Y6A^A	7,900	2,315	23	10	6,500	1,905	22	10	1	610	1,036
HEL0095*Y6A^A	10,100	2,960	25	10	8,300	2,433	25	10	2	1,305	2,217
HEL0105*Y6A^A	12,600	3,693	27	10	10,400	3,048	26	10	2	1,305	2,217
HEL0115*Y6A^A	14,600	4,279	32	10	12,000	3,517	31	10	2	1,220	2,073
HEL0125*Y6A^A	15,700	4,601	32	10	12,900	3,781	31	10	2	1,220	2,073
HEL0155*Y6A^A	17,000	4,982	37	20	13,900	4,074	36	20	3	1,958	3,327
HEL0190*Y6A^A	21,400	6,272	46	20	17,600	5,158	45	20	3	1,830	3,109
HEL0250*Y6A^A	24,800	7,268	54	20	20,400	5,979	53	20	4	2,440	4,146
HEL0295*Y6A^A	31,000	9,086	63	20	25,500	7,474	61	20	5	3,050	5,182
HEL0350*Y6A^A	37,200	10,903	66	20	30,500	8,939	64	20	6	3,660	6,218
HEL0380*Y6A^A	44,800	13,130	73	20	36,900	10,815	70	20	6	3,660	6,218

New Model	R455A				Fan Data		
	Application Capacity <sup>1</sup>						
	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
HEL0045*Y6A^A	5,000	1,465	13	10	1	653	1,109
HEL0055*Y6A^A	6,600	1,934	15	10	1	610	1,036
HEL0060*Y6A^A	8,400	2,462	15	10	1	610	1,036
HEL0095*Y6A^A	10,800	3,165	17	10	2	1,305	2,217
HEL0105*Y6A^A	13,500	3,957	18	10	2	1,305	2,217
HEL0115*Y6A^A	15,700	4,601	21	10	2	1,220	2,073
HEL0125*Y6A^A	16,700	4,894	21	10	2	1,220	2,073
HEL0155*Y6A^A	18,100	5,305	25	20	3	1,958	3,327
HEL0190*Y6A^A	22,900	6,712	30	20	3	1,830	3,109
HEL0250*Y6A^A	26,600	7,796	36	20	4	2,440	4,146
HEL0295*Y6A^A	33,200	9,730	41	20	5	3,050	5,182
HEL0350*Y6A^A	39,700	11,635	44	20	6	3,660	6,218
HEL0380*Y6A^A	48,000	14,068	48	20	6	3,660	6,218

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

\*\* Room Area Minimum is calculated using the Line Length from the Safety Shut-off Valve (SSOV) to the Unit Cooler. For applications requiring other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation.

# A1 PERFORMANCE DATA

## Application Capacity: Air Defrost- 60 Hz

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
		Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
		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	m <sup>3</sup> H
		BTUH	Watts	BTUH	Watts			
HEL0045*±6A^A	RLC040	4,000	1,200	4,600	1,300	1	653	1,109
HEL0055*±6A^A	RLC052	5,200	1,500	6,100	1,800	1	610	1,036
HEL0060*±6A^A	RLC065 RLC070	6,500	1,900	7,800	2,300	1	610	1,036
HEL0095*±6A^A	RLC070 RLC090	8,000	2,300	10,000	2,900	2	1,305	2,217
HEL0105*±6A^A	RLC090 RLC104	9,200	2,650	12,500	3,600	2	1,305	2,217
HEL0115*±6A^A	RLC120	11,700	3,370	14,500	4,180	2	1,220	2,073
HEL0125*±6A^A	RLC130	13,000	3,800	15,500	4,500	2	1,220	2,073
HEL0155*±6A^A	RLC140	14,000	4,100	16,800	4,900	3	1,958	3,327
HEL0190*±6A^A	RLC156 RLC180	18,000	5,300	21,200	6,200	3	1,830	3,109
HEL0250*±6A^A	RLC208	20,800	6,100	24,600	7,200	4	2,440	4,146
HEL0295*±6A^A	RLC260	26,000	7,600	30,700	9,000	5	3,050	5,182
HEL0350*±6A^A	RLC312	31,200	9,100	36,800	10,800	6	3,660	6,218
HEL0380*±6A^A	RLC370	37,000	10,800	44,400	13,000	6	3,660	6,218

New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
		Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
		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	m <sup>3</sup> H
		BTUH	Watts	BTUH	Watts			
HEL0045*±6A^A	RLC040	4,600	1,300	4,600	1,300	1	653	1,109
HEL0055*±6A^A	RLC052	6,100	1,800	6,100	1,800	1	610	1,036
HEL0060*±6A^A	RLC065 RLC070	7,800	2,300	7,800	2,300	1	610	1,036
HEL0095*±6A^A	RLC070 RLC090	10,000	2,900	10,000	2,900	2	1,305	2,217
HEL0105*±6A^A	RLC090 RLC104	12,500	3,600	12,500	3,600	2	1,305	2,217
HEL0115*±6A^A	RLC120	14,500	4,180	14,500	4,180	2	1,220	2,073
HEL0125*±6A^A	RLC130	15,500	4,500	15,500	4,500	2	1,220	2,073
HEL0155*±6A^A	RLC140	16,800	4,900	16,800	4,900	3	1,958	3,327
HEL0190*±6A^A	RLC156 RLC180	21,200	6,200	21,200	6,200	3	1,830	3,109
HEL0250*±6A^A	RLC208	24,600	7,200	24,600	7,200	4	2,440	4,146
HEL0295*±6A^A	RLC260	30,700	9,000	30,700	9,000	5	3,050	5,182
HEL0350*±6A^A	RLC312	36,800	10,800	36,800	10,800	6	3,660	6,218
HEL0380*±6A^A	RLC370	44,400	13,000	44,400	13,000	6	3,660	6,218

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
 \* = Electrical Code Designator (see Nomenclature details)  
 ^ = Motor 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 59 to confirm model meets DOE minimum AWEF

New Model	Legacy Model	CO <sub>2</sub> DX		Fan Data		
		Application Capacity <sup>1</sup>				
		10°F TD/25°F SST	6°C TD/-4°C SST	No. of Fans	CFM	m <sup>3</sup> H
		BTUH	Watts			
HEL0045*C6A^A	N/A	4,600	1,348	1	653	1,109
HEL0055*C6A^A	N/A	6,100	1,788	1	610	1,036
HEL0060*C6A^A	N/A	7,800	2,286	1	610	1,036
HEL0095*C6A^A	N/A	10,000	2,931	2	1,305	2,217
HEL0105*C6A^A	N/A	12,500	3,663	2	1,305	2,217
HEL0115*C6A^A	N/A	14,500	4,250	2	1,220	2,073
HEL0125*C6A^A	N/A	15,500	4,543	2	1,220	2,073
HEL0155*C6A^A	N/A	16,800	4,924	3	1,958	3,327
HEL0190*C6A^A	N/A	21,200	6,213	3	1,830	3,109
HEL0250*C6A^A	N/A	24,600	7,210	4	2,440	4,146
HEL0295*C6A^A	N/A	30,700	8,997	5	3,050	5,182
HEL0350*C6A^A	N/A	36,800	10,785	6	3,660	6,218
HEL0380*C6A^A	N/A	44,400	13,012	6	3,660	6,218

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

# A2L PERFORMANCE DATA

Application Capacity: Air Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	R454A				R454C				Fan Data		
	Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
BTUH	Watts	Sq. Ft.	Ft.	BTUH	Watts	Sq. Ft.	Ft.				
HEL0045*Y6A^A	4,400	1,290	20	10	3,600	1,055	19	10	1	588	999
HEL0055*Y6A^A	5,900	1,729	23	10	4,800	1,407	22	10	1	549	933
HEL0060*Y6A^A	7,500	2,198	23	10	6,200	1,817	22	10	1	549	933
HEL0095*Y6A^A	9,600	2,814	25	10	7,900	2,315	25	10	2	1,175	1,995
HEL0105*Y6A^A	12,000	3,517	27	10	9,900	2,902	26	10	2	1,175	1,995
HEL0115*Y6A^A	13,900	4,074	32	10	11,400	3,341	31	10	2	1,098	1,866
HEL0125*Y6A^A	14,900	4,367	32	10	12,200	3,576	31	10	2	1,098	1,866
HEL0155*Y6A^A	16,100	4,719	37	20	13,200	3,869	36	20	3	1,762	2,994
HEL0190*Y6A^A	20,300	5,950	46	20	16,700	4,894	45	20	3	1,647	2,798
HEL0250*Y6A^A	23,600	6,917	54	20	19,400	5,686	53	20	4	2,196	3,731
HEL0295*Y6A^A	29,500	8,646	63	20	24,200	7,093	61	20	5	2,745	4,664
HEL0350*Y6A^A	35,300	10,346	66	20	29,000	8,499	64	20	6	3,294	5,597
HEL0380*Y6A^A	42,600	12,485	73	20	35,000	10,258	70	20	6	3,294	5,597

New Model	R455A				Fan Data		
	Application Capacity <sup>1</sup>						
	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
BTUH	Watts	Sq. Ft.	Ft.				
HEL0045*Y6A^A	4,700	1,377	13	10	1	588	999
HEL0055*Y6A^A	6,300	1,846	15	10	1	549	933
HEL0060*Y6A^A	8,000	2,345	15	10	1	549	933
HEL0095*Y6A^A	10,300	3,019	17	10	2	1,175	1,995
HEL0105*Y6A^A	12,800	3,751	18	10	2	1,175	1,995
HEL0115*Y6A^A	14,900	4,367	21	10	2	1,098	1,866
HEL0125*Y6A^A	15,900	4,660	21	10	2	1,098	1,866
HEL0155*Y6A^A	17,200	5,041	25	20	3	1,762	2,994
HEL0190*Y6A^A	21,800	6,389	30	20	3	1,647	2,798
HEL0250*Y6A^A	25,200	7,386	36	20	4	2,196	3,731
HEL0295*Y6A^A	31,500	9,232	41	20	5	2,745	4,664
HEL0350*Y6A^A	37,800	11,079	44	20	6	3,294	5,597
HEL0380*Y6A^A	45,600	13,365	48	20	6	3,294	5,597

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

\*\* Room Area Minimum is calculated using the Line Length from the Safety Shut-off Valve (SSOV) to the Unit Cooler. For applications requiring other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation.

# A1 PERFORMANCE DATA

Application Capacity: Air Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
		Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
		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	m <sup>3</sup> H
		BTUH	Watts	BTUH	Watts			
HEL0045*±6A^A	RLC040	3,800	1,140	4,370	1,235	1	588	999
HEL0055*±6A^A	RLC052	4,940	1,425	5,795	1,710	1	549	933
HEL0060*±6A^A	RLC065 RLC070	6,175	1,805	7,410	2,185	1	549	933
HEL0095*±6A^A	RLC070 RLC090	7,600	2,185	9,500	2,755	2	1,175	1,995
HEL0105*±6A^A	RLC090 RLC104	8,740	2,518	11,875	3,420	2	1,175	1,995
HEL0115*±6A^A	RLC120	11,115	3,202	13,775	3,971	2	1,098	1,866
HEL0125*±6A^A	RLC130	12,350	3,610	14,725	4,275	2	1,098	1,866
HEL0155*±6A^A	RLC140	13,300	3,895	15,960	4,655	3	1,762	2,994
HEL0190*±6A^A	RLC156 RLC180	17,100	5,035	20,140	5,890	3	1,647	2,798
HEL0250*±6A^A	RLC208	19,760	5,795	23,370	6,840	4	2,196	3,731
HEL0295*±6A^A	RLC260	24,700	7,220	29,165	8,550	5	2,745	4,664
HEL0350*±6A^A	RLC312	29,640	8,645	34,960	10,260	6	3,294	5,597
HEL0380*±6A^A	RLC370	35,150	10,260	42,180	12,350	6	3,294	5,597

New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
		Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
		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	m <sup>3</sup> H
		BTUH	Watts	BTUH	Watts			
HEL0045*±6A^A	RLC040	4,370	1,235	4,370	1,235	1	588	999
HEL0055*±6A^A	RLC052	5,795	1,710	5,795	1,710	1	549	933
HEL0060*±6A^A	RLC065 RLC070	7,410	2,185	7,410	2,185	1	549	933
HEL0095*±6A^A	RLC070 RLC090	9,500	2,755	9,500	2,755	2	1,175	1,995
HEL0105*±6A^A	RLC090 RLC104	11,875	3,420	11,875	3,420	2	1,175	1,995
HEL0115*±6A^A	RLC120	13,775	3,971	13,775	3,971	2	1,098	1,866
HEL0125*±6A^A	RLC130	14,725	4,275	14,725	4,275	2	1,098	1,866
HEL0155*±6A^A	RLC140	15,960	4,655	15,960	4,655	3	1,762	2,994
HEL0190*±6A^A	RLC156 RLC180	20,140	5,890	20,140	5,890	3	1,647	2,798
HEL0250*±6A^A	RLC208	23,370	6,840	23,370	6,840	4	2,196	3,731
HEL0295*±6A^A	RLC260	29,165	8,550	29,165	8,550	5	2,745	4,664
HEL0350*±6A^A	RLC312	34,960	10,260	34,960	10,260	6	3,294	5,597
HEL0380*±6A^A	RLC370	42,180	12,350	42,180	12,350	6	3,294	5,597

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

Application Capacity: Air Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	Legacy Model	CO <sub>2</sub> DX		Fan Data		
		Application Capacity <sup>1</sup>				
		10°F TD/25°F SST	6°C TD/-4°C SST	No. of Fans	CFM	m <sup>3</sup> H
		BTUH	Watts			
HEL0045*C6A^A	N/A	4,370	1,281	1	588	999
HEL0055*C6A^A	N/A	5,795	1,698	1	549	933
HEL0060*C6A^A	N/A	7,410	2,172	1	549	933
HEL0095*C6A^A	N/A	9,500	2,784	2	1,175	1,996
HEL0105*C6A^A	N/A	11,875	3,480	2	1,175	1,996
HEL0115*C6A^A	N/A	13,775	4,037	2	1,098	1,866
HEL0125*C6A^A	N/A	14,725	4,315	2	1,098	1,866
HEL0155*C6A^A	N/A	15,960	4,677	3	1,762	2,994
HEL0190*C6A^A	N/A	20,140	5,902	3	1,647	2,798
HEL0250*C6A^A	N/A	23,370	6,849	4	2,196	3,731
HEL0295*C6A^A	N/A	29,165	8,547	5	2,745	4,664
HEL0350*C6A^A	N/A	34,960	10,246	6	3,294	5,597
HEL0380*C6A^A	N/A	42,180	12,362	6	3,294	5,597

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

# SPECIFICATIONS

## Air Defrost- 60 Hz

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

		2-Speed EC Motor (Totally Enclosed)							
		115/1/60				208-230/1/60			
New Model	HP	Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD
HEL0045*±6AMA	1/20	0.9	55	1.1	20	0.5	55	0.6	15
HEL0055*±6AMA	1/20	0.9	55	1.1	20	0.5	55	0.6	15
HEL0060*±6AMA	1/20	0.9	55	1.1	20	0.5	55	0.6	15
HEL0095*±6AMA	1/20	1.8	110	2.0	20	1.0	110	1.1	15
HEL0105*±6AMA	1/20	1.8	110	2.0	20	1.0	110	1.1	15
HEL0115*±6AMA	1/20	1.8	110	2.0	20	1.0	110	1.1	15
HEL0125*±6AMA	1/20	1.8	110	2.0	20	1.0	110	1.1	15
HEL0155*±6AMA	1/20	2.7	165	2.9	20	1.5	165	1.6	15
HEL0190*±6AMA	1/20	2.7	165	2.9	20	1.5	165	1.6	15
HEL0250*±6AMA	1/20	3.6	220	3.8	20	2.0	220	2.1	15
HEL0295*±6AMA	1/20	4.5	275	4.7	20	2.5	275	2.6	15
HEL0350*±6AMA	1/20	5.4	330	5.6	20	3.0	330	3.1	15
HEL0380*±6AMA	1/20	5.4	330	5.6	20	3.0	330	3.1	15

		1-Speed EC Motor (Totally Enclosed)							
		115/1/60				208-230/1/60			
New Model	HP	Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD
HEL0045*±6AEA	1/20	0.9	55	1.1	20	0.5	59	0.6	15
HEL0055*±6AEA	1/20	0.9	55	1.1	20	0.5	59	0.6	15
HEL0060*±6AEA	1/20	0.9	55	1.1	20	0.5	59	0.6	15
HEL0095*±6AEA	1/20	1.8	110	2.0	20	1.0	118	1.1	15
HEL0105*±6AEA	1/20	1.8	110	2.0	20	1.0	118	1.1	15
HEL0115*±6AEA	1/20	1.8	110	2.0	20	1.0	118	1.1	15
HEL0125*±6AEA	1/20	1.8	110	2.0	20	1.0	118	1.1	15
HEL0155*±6AEA	1/20	2.7	165	2.9	20	1.5	177	1.6	15
HEL0190*±6AEA	1/20	2.7	165	2.9	20	1.5	177	1.6	15
HEL0250*±6AEA	1/20	3.6	220	3.8	20	2.0	236	2.1	15
HEL0295*±6AEA	1/20	4.5	275	4.7	20	2.5	295	2.6	15
HEL0350*±6AEA	1/20	5.4	330	5.6	20	3.0	354	3.1	15
HEL0380*±6AEA	1/20	5.4	330	5.6	20	3.0	354	3.1	15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Air Defrost- 60 Hz

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	HP	PSC Motor (Totally Enclosed)											
		115/1/60				208-230/1/60				460/1/60			
		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD
HEL0045*±6ACA	1/20	1.0	82	1.3	20	0.5	91	0.6	15	0.4	117	0.5	15
HEL0055*±6ACA	1/20	1.0	82	1.3	20	0.5	91	0.6	15	0.4	117	0.5	15
HEL0060*±6ACA	1/20	1.0	82	1.3	20	0.5	91	0.6	15	0.4	117	0.5	15
HEL0095*±6ACA	1/20	2.0	164	2.3	20	1.0	182	1.1	15	0.8	234	0.9	15
HEL0105*±6ACA	1/20	2.0	164	2.3	20	1.0	182	1.1	15	0.8	234	0.9	15
HEL0115*±6ACA	1/20	2.0	164	2.3	20	1.0	182	1.1	15	0.8	234	0.9	15
HEL0125*±6ACA	1/20	2.0	164	2.3	20	1.0	182	1.1	15	0.8	234	0.9	15
HEL0155*±6ACA	1/20	3.0	246	3.3	20	1.5	273	1.6	15	1.2	351	1.3	15
HEL0190*±6ACA	1/20	3.0	246	3.3	20	1.5	273	1.6	15	1.2	351	1.3	15
HEL0250*±6ACA	1/20	4.0	328	4.3	20	2.0	364	2.1	15	1.6	468	1.7	15
HEL0295*±6ACA	1/20	5.0	410	5.3	20	2.5	455	2.6	15	2.0	585	2.1	15
HEL0350*±6ACA	1/20	6.0	492	6.3	20	3.0	546	3.1	15	2.4	702	2.5	15
HEL0380*±6ACA	1/20	6.0	492	6.3	20	3.0	546	3.1	15	2.4	702	2.5	15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)  
 ± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Air Defrost- 50 Hz

Please consult AWEF table on page 59 to confirm model meets DOE minimum AWEF

New Model	HP	2-Speed EC Motor (Totally Enclosed)				1-Speed EC Motor (Totally Enclosed)				PSC Motor (Totally Enclosed)			
		220/1/50				220/1/50				220/1/50			
		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD
HEL0045*±6A^A	1/20	0.5	55	0.6	15	0.5	59	0.6	15	0.5	65	0.6	15
HEL0055*±6A^A	1/20	0.5	55	0.6	15	0.5	59	0.6	15	0.5	65	0.6	15
HEL0060*±6A^A	1/20	0.5	55	0.6	15	0.5	59	0.6	15	0.5	65	0.6	15
HEL0095*±6A^A	1/20	1.0	110	1.1	15	1.0	118	1.1	15	1.0	130	1.1	15
HEL0105*±6A^A	1/20	1.0	110	1.1	15	1.0	118	1.1	15	1.0	130	1.1	15
HEL0115*±6A^A	1/20	1.0	110	1.1	15	1.0	118	1.1	15	1.0	130	1.1	15
HEL0125*±6A^A	1/20	1.0	110	1.1	15	1.0	118	1.1	15	1.0	130	1.1	15
HEL0155*±6A^A	1/20	1.5	165	1.6	15	1.5	177	1.6	15	1.5	195	1.6	15
HEL0190*±6A^A	1/20	1.5	165	1.6	15	1.5	177	1.6	15	1.5	195	1.6	15
HEL0250*±6A^A	1/20	2.0	220	2.1	15	2.0	236	2.1	15	2.0	260	2.1	15
HEL0295*±6A^A	1/20	2.5	275	2.6	15	2.5	295	2.6	15	2.5	325	2.6	15
HEL0350*±6A^A	1/20	3.0	330	3.1	15	3.0	354	3.1	15	3.0	390	3.1	15
HEL0380*±6A^A	1/20	3.0	330	3.1	15	3.0	354	3.1	15	3.0	390	3.1	15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# A2L PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6E^A	3,800	1,114	20	10	3,200	938	20	10	1	685	1,164
6	HEL0045*Y6E^A	5,100	1,495	23	10	4,400	1,290	22	10	1	641	1,088
6	HEL0065*Y6E^A	7,000	2,052	27	10	6,000	1,758	26	10	2	1,371	2,329
6	HEL0080*Y6E^A	8,100	2,374	27	10	7,000	2,052	26	10	2	1,371	2,329
6	HEL0100*Y6E^A	9,600	2,814	32	10	8,200	2,403	31	10	2	1,281	2,176
6	HEL0130*Y6E^A	13,100	3,839	34	10	11,200	3,283	33	10	3	2,056	3,493
6	HEL0155*Y6E^A	15,500	4,543	47	20	13,300	3,898	45	20	3	1,922	3,265
6	HEL0170*Y6E^A	17,400	5,100	45	20	14,900	4,367	44	20	4	2,741	4,658
6	HEL0205*Y6E^A	19,500	5,715	55	20	16,700	4,894	53	20	4	2,562	4,353
6	HEL0240*Y6E^A	21,700	6,360	63	20	18,600	5,451	61	20	5	3,203	5,441
6	HEL0255*Y6E^A	26,100	7,649	59	20	22,300	6,536	57	20	6	4,112	6,986
6	HEL0310*Y6E^A	30,500	8,939	72	20	26,100	7,649	70	20	6	3,843	6,529
4	HEL0045*Y4E^A	4,400	1,290	23	10	3,700	1,084	22	10	1	667	1,132
4	HEL0070*Y4E^A	7,200	2,110	27	10	6,100	1,788	26	10	2	1,425	2,422
4	HEL0090*Y4E^A	8,500	2,491	32	10	7,300	2,140	31	10	2	1,332	2,263
4	HEL0135*Y4E^A	11,700	3,429	46	20	10,000	2,931	44	20	3	1,998	3,395
4	HEL0180*Y4E^A	15,800	4,631	55	20	13,500	3,957	53	20	4	2,664	4,527
4	HEL0220*Y4E^A	19,000	5,569	63	20	16,300	4,777	61	20	5	3,331	5,659
4	HEL0275*Y4E^A	25,100	7,356	72	20	21,500	6,301	70	20	6	3,997	6,790

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

\*\* Room Area Minimum calculated using the Line Lengths shown in the 'Line Length' column. For Applications requiring other line lengths, please contact Heatcraft Application Engineering Team for Room Area Minimum re-calculation

# A2L PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length			
FPI	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6E^A	3,700	1,084	14	10	1	685	1,164
6	HEL0045*Y6E^A	5,000	1,465	15	10	1	641	1,088
6	HEL0065*Y6E^A	6,800	1,993	18	10	2	1,371	2,329
6	HEL0080*Y6E^A	8,000	2,345	18	10	2	1,371	2,329
6	HEL0100*Y6E^A	9,400	2,755	21	10	2	1,281	2,176
6	HEL0130*Y6E^A	12,800	3,751	22	10	3	2,056	3,493
6	HEL0155*Y6E^A	15,200	4,455	31	20	3	1,922	3,265
6	HEL0170*Y6E^A	17,000	4,982	30	20	4	2,741	4,658
6	HEL0205*Y6E^A	19,100	5,598	36	20	4	2,562	4,353
6	HEL0240*Y6E^A	21,300	6,243	41	20	5	3,203	5,441
6	HEL0255*Y6E^A	25,600	7,503	39	20	6	4,112	6,986
6	HEL0310*Y6E^A	29,800	8,734	47	20	6	3,843	6,529
4	HEL0045*Y4E^A	4,300	1,260	15	10	1	667	1,132
4	HEL0070*Y4E^A	7,000	2,052	18	10	2	1,425	2,422
4	HEL0090*Y4E^A	8,400	2,462	21	10	2	1,332	2,263
4	HEL0135*Y4E^A	11,500	3,370	30	20	3	1,998	3,395
4	HEL0180*Y4E^A	15,500	4,543	36	20	4	2,664	4,527
4	HEL0220*Y4E^A	18,600	5,451	41	20	5	3,331	5,659
4	HEL0275*Y4E^A	24,600	7,210	47	20	6	3,997	6,790

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

\*\* Room Area Minimum calculated using the Line Lengths shown in the 'Line Length' column. For Applications requiring other line lengths, please contact Heatcraft Application Engineering Team for Room Area Minimum re-calculation

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	3,500	1,000	3,900	1,000	1	685	1,164
6	HEL0045*±6E^A	ELC040 ELC047	4,700	1,400	5,300	1,600	1	641	1,088
6	HEL0065*±6E^A	ELC065	6,500	1,900	7,200	2,100	2	1,371	2,329
6	HEL0080*±6E^A	ELC075	7,500	2,200	8,400	2,500	2	1,371	2,329
6	HEL0100*±6E^A	ELC090	9,000	2,600	9,900	2,900	2	1,281	2,176
6	HEL0130*±6E^A	ELC120	12,000	3,500	13,500	4,000	3	2,056	3,493
6	HEL0155*±6E^A	ELC140	14,000	4,100	16,000	4,700	3	1,922	3,265
6	HEL0170*±6E^A	ELC160	16,000	4,700	17,900	5,200	4	2,741	4,658
6	HEL0205*±6E^A	ELC180	18,000	5,300	20,100	5,900	4	2,562	4,353
6	HEL0240*±6E^A	ELC200	20,000	5,900	22,800	6,600	5	3,203	5,441
6	HEL0255*±6E^A	ELC240	24,000	7,000	26,900	7,900	6	4,112	6,986
6	HEL0310*±6E^A	ELC280	28,000	8,200	31,400	9,200	6	3,843	6,529
4	HEL0045*±4E^A	EFC041	4,100	1,200	4,500	1,300	1	667	1,132
4	HEL0070*±4E^A	EFC068	6,800	2,000	7,400	2,200	2	1,425	2,422
4	HEL0090*±4E^A	EFC080	8,000	2,300	8,800	2,600	2	1,332	2,263
4	HEL0135*±4E^A	EFC102	10,200	3,000	12,800	3,700	3	1,998	3,395
4	HEL0180*±4E^A	EFC136	13,600	4,000	17,300	5,000	4	2,664	4,527
4	HEL0220*±4E^A	EFC170	17,000	5,000	19,500	5,600	5	3,331	5,659
4	HEL0275*±4E^A	EFC204 EFC235	23,500	6,900	25,900	7,600	6	3,997	6,790

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
 \* = Electrical Code Designator (see Nomenclature details)  
 ^ = Motor Code Designator (see Nomenclature details)  
 Net Capacity is available upon request  
 ± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	3,900	1,000	-	-	1	685	1,164
6	HEL0045*±6E^A	ELC040 ELC047	5,300	1,600	-	-	1	641	1,088
6	HEL0065*±6E^A	ELC065	7,200	2,100	-	-	2	1,371	2,329
6	HEL0080*±6E^A	ELC075	8,400	2,500	-	-	2	1,371	2,329
6	HEL0100*±6E^A	ELC090	9,900	2,900	-	-	2	1,281	2,176
6	HEL0130*±6E^A	ELC120	13,500	4,000	-	-	3	2,056	3,493
6	HEL0155*±6E^A	ELC140	16,000	4,700	-	-	3	1,922	3,265
6	HEL0170*±6E^A	ELC160	17,900	5,200	-	-	4	2,741	4,658
6	HEL0205*±6E^A	ELC180	20,100	5,900	-	-	4	2,562	4,353
6	HEL0240*±6E^A	ELC200	22,400	6,500	-	-	5	3,203	5,441
6	HEL0255*±6E^A	ELC240	26,900	7,900	-	-	6	4,112	6,986
6	HEL0310*±6E^A	ELC280	31,400	9,200	-	-	6	3,843	6,529
4	HEL0045*±4E^A	EFC041	4,500	1,300	-	-	1	667	1,132
4	HEL0070*±4E^A	EFC068	7,400	2,200	-	-	2	1,425	2,422
4	HEL0090*±4E^A	EFC080	8,800	2,600	-	-	2	1,332	2,263
4	HEL0135*±4E^A	EFC102	12,100	3,500	-	-	3	1,998	3,395
4	HEL0180*±4E^A	EFC136	16,300	4,700	-	-	4	2,664	4,527
4	HEL0220*±4E^A	EFC170	19,600	5,600	-	-	5	3,331	5,659
4	HEL0275*±4E^A	EFC204 EFC235	25,900	7,600	-	-	6	3,997	6,790

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	CO <sub>2</sub> DX		Fan Data		
			Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts			
6	HEL0040*C6E^A	N/A	3,900	1,143	1	685	1,164
6	HEL0045*C6E^A	N/A	5,300	1,553	1	641	1,088
6	HEL0065*C6E^A	N/A	7,200	2,110	2	1,371	2,329
6	HEL0080*C6E^A	N/A	8,400	2,462	2	1,371	2,329
6	HEL0100*C6E^A	N/A	9,900	2,901	2	1,281	2,176
6	HEL0130*C6E^A	N/A	13,500	3,956	3	2,056	3,493
6	HEL0155*C6E^A	N/A	16,000	4,689	3	1,922	3,265
6	HEL0170*C6E^A	N/A	17,900	5,246	4	2,741	4,657
6	HEL0205*C6E^A	N/A	20,100	5,891	4	2,562	4,353
6	HEL0240*C6E^A	N/A	22,400	6,565	5	3,203	5,441
6	HEL0255*C6E^A	N/A	26,900	7,884	6	4,112	6,986
6	HEL0310*C6E^A	N/A	31,400	9,202	6	3,843	6,529
4	HEL0045*C4E^A	N/A	4,500	1,319	1	667	1,132
4	HEL0070*C4E^A	N/A	7,400	2,169	2	1,425	2,422
4	HEL0090*C4E^A	N/A	8,800	2,579	2	1,332	2,263
4	HEL0135*C4E^A	N/A	12,100	3,546	3	1,998	3,395
4	HEL0180*C4E^A	N/A	16,300	4,777	4	2,664	4,527
4	HEL0220*C4E^A	N/A	19,600	5,744	5	3,331	5,659
4	HEL0275*C4E^A	N/A	25,900	7,591	6	3,997	6,790

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
 \* = Electrical Code Designator (see Nomenclature details)  
 ^ = Motor Code Designator (see Nomenclature details)  
 Net Capacity is available upon request

# A2L PERFORMANCE DATA

Application Capacity: Low Temperature Electric Defrost- 50 Hz (For PSC Motors) †

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6E^A	3,600	1,055	20	10	3,100	909	20	10	1	617	1,048
6	HEL0045*Y6E^A	4,900	1,436	23	10	4,200	1,231	22	10	1	576	979
6	HEL0065*Y6E^A	6,600	1,934	27	10	5,700	1,671	26	10	2	1,234	2,096
6	HEL0080*Y6E^A	7,700	2,257	27	10	6,600	1,934	26	10	2	1,234	2,096
6	HEL0100*Y6E^A	9,100	2,667	32	10	7,800	2,286	31	10	2	1,153	1,959
6	HEL0130*Y6E^A	12,400	3,634	34	10	10,600	3,107	33	10	3	1,850	3,144
6	HEL0155*Y6E^A	14,700	4,308	47	20	12,600	3,693	45	20	3	1,729	2,938
6	HEL0170*Y6E^A	16,500	4,836	45	20	14,100	4,132	44	20	4	2,467	4,192
6	HEL0205*Y6E^A	18,500	5,422	55	20	15,800	4,631	53	20	4	2,306	3,918
6	HEL0240*Y6E^A	20,600	6,038	63	20	17,700	5,188	61	20	5	2,882	4,897
6	HEL0255*Y6E^A	24,800	7,268	59	20	21,200	6,213	57	20	6	3,701	6,288
6	HEL0310*Y6E^A	28,900	8,470	72	20	24,800	7,268	70	20	6	2,459	5,876
4	HEL0045*Y4E^A	4,100	1,202	23	10	3,500	1,026	22	10	1	600	1,019
4	HEL0070*Y4E^A	6,800	1,993	27	10	5,800	1,700	26	10	2	1,283	2,180
4	HEL0090*Y4E^A	8,100	2,374	32	10	6,900	2,022	31	10	2	1,199	2,037
4	HEL0135*Y4E^A	11,200	3,283	46	20	9,500	2,784	44	20	3	1,799	3,056
4	HEL0180*Y4E^A	15,000	4,396	55	20	12,900	3,781	53	20	4	2,398	4,074
4	HEL0220*Y4E^A	18,100	5,305	63	20	15,500	4,543	61	20	5	2,998	5,093
4	HEL0275*Y4E^A	23,900	7,005	72	20	20,400	5,979	70	20	6	3,597	6,111

**Notes:**  
 \* = Electrical Code Designator (see Nomenclature details)  
 ^ = Motor Code Designator (see Nomenclature details)  
 \*\* Room Area Minimum calculated using the Line Lengths shown in the 'Line Length' column. For Applications requiring other line lengths, please contact Heatcraft Application Engineering Team for Room Area Minimum re-calculation

# A2L PERFORMANCE DATA

Application Capacity: Low Temperature Electric Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length			
	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6E^A	3,500	1,026	14	10	1	617	1,048
6	HEL0045*Y6E^A	4,800	1,407	15	10	1	576	979
6	HEL0065*Y6E^A	6,500	1,905	18	10	2	1,234	2,096
6	HEL0080*Y6E^A	7,600	2,227	18	10	2	1,234	2,096
6	HEL0100*Y6E^A	8,900	2,608	21	10	2	1,153	1,959
6	HEL0130*Y6E^A	12,200	3,576	22	10	3	1,850	3,144
6	HEL0155*Y6E^A	14,400	4,220	31	20	3	1,729	2,938
6	HEL0170*Y6E^A	16,200	4,748	30	20	4	2,467	4,192
6	HEL0205*Y6E^A	18,100	5,305	36	20	4	2,306	3,918
6	HEL0240*Y6E^A	20,200	5,920	41	20	5	2,882	4,897
6	HEL0255*Y6E^A	24,300	7,122	39	20	6	3,701	6,288
6	HEL0310*Y6E^A	28,300	8,294	47	20	6	2,459	5,876
4	HEL0045*Y4E^A	4,100	1,202	15	10	1	600	1,019
4	HEL0070*Y4E^A	6,700	1,964	18	10	2	1,283	2,180
4	HEL0090*Y4E^A	7,900	2,315	21	10	2	1,199	2,037
4	HEL0135*Y4E^A	10,900	3,195	30	20	3	1,799	3,056
4	HEL0180*Y4E^A	14,700	4,308	36	20	4	2,398	4,074
4	HEL0220*Y4E^A	17,700	5,188	41	20	5	2,998	5,093
4	HEL0275*Y4E^A	23,400	6,858	47	20	6	3,597	6,111

**Notes:**

- <sup>1</sup> = 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](http://www.regulations.doe.gov)
- \* = Electrical Code Designator (see Nomenclature details)
- ^ = Motor Code Designator (see Nomenclature details)
- Net Capacity is available upon request
- <sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)
- \*\* Room Area Minimum is calculated using the Line Length from the Safety Shut-off Valve (SSOV) to the Unit Cooler. For applications requiring other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation.

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 50 Hz (For PSC Motors) †

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	3,325	950	3,705	950	1	617	1,048
6	HEL0045*±6E^A	ELC040 ELC047	4,465	1,330	5,035	1,520	1	576	979
6	HEL0065*±6E^A	ELC065	6,175	1,805	6,840	1,995	2	1,234	2,096
6	HEL0080*±6E^A	ELC075	7,125	2,090	7,980	2,375	2	1,234	2,096
6	HEL0100*±6E^A	ELC090	8,550	2,470	9,405	2,755	2	1,153	1,959
6	HEL0130*±6E^A	ELC120	11,400	3,325	12,825	3,800	3	1,850	3,144
6	HEL0155*±6E^A	ELC140	13,300	3,895	15,200	4,465	3	1,729	2,938
6	HEL0170*±6E^A	ELC160	15,200	4,465	17,005	4,940	4	2,467	4,192
6	HEL0205*±6E^A	ELC180	17,100	5,035	19,095	5,605	4	2,306	3,918
6	HEL0240*±6E^A	ELC200	19,000	5,605	21,660	6,270	5	2,882	4,897
6	HEL0255*±6E^A	ELC240	22,800	6,650	25,555	7,505	6	3,701	6,288
6	HEL0310*±6E^A	ELC280	26,600	7,790	29,830	8,740	6	2,459	5,876
4	HEL0045*±4E^A	EFC041	3,895	1,140	4,275	1,235	1	600	1,019
4	HEL0070*±4E^A	EFC068	6,460	1,900	7,030	2,090	2	1,283	2,180
4	HEL0090*±4E^A	EFC080	7,600	2,185	8,360	2,470	2	1,199	2,037
4	HEL0135*±4E^A	EFC102	9,690	2,850	12,160	3,515	3	1,799	3,056
4	HEL0180*±4E^A	EFC136	12,920	3,800	16,435	4,750	4	2,398	4,074
4	HEL0220*±4E^A	EFC170	16,150	4,750	18,525	5,320	5	2,998	5,093
4	HEL0275*±4E^A	EFC204 EFC235	22,325	6,555	24,605	7,220	6	3,597	6,111

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

† = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	3,705	950	-	-	1	617	1,048
6	HEL0045*±6E^A	ELC040 ELC047	5,035	1,520	-	-	1	576	979
6	HEL0065*±6E^A	ELC065	6,840	1,995	-	-	2	1,234	2,096
6	HEL0080*±6E^A	ELC075	7,980	2,375	-	-	2	1,234	2,096
6	HEL0100*±6E^A	ELC090	9,405	2,755	-	-	2	1,153	1,959
6	HEL0130*±6E^A	ELC120	12,825	3,800	-	-	3	1,850	3,144
6	HEL0155*±6E^A	ELC140	15,200	4,465	-	-	3	1,729	2,938
6	HEL0170*±6E^A	ELC160	17,005	4,940	-	-	4	2,467	4,192
6	HEL0205*±6E^A	ELC180	19,095	5,605	-	-	4	2,306	3,918
6	HEL0240*±6E^A	ELC200	21,280	6,175	-	-	5	2,882	4,897
6	HEL0255*±6E^A	ELC240	25,555	7,505	-	-	6	3,701	6,288
6	HEL0310*±6E^A	ELC280	29,830	8,740	-	-	6	2,459	5,876
4	HEL0045*±4E^A	EFC041	4,275	1,235	-	-	1	600	1,019
4	HEL0070*±4E^A	EFC068	7,030	2,090	-	-	2	1,283	2,180
4	HEL0090*±4E^A	EFC080	8,360	2,470	-	-	2	1,199	2,037
4	HEL0135*±4E^A	EFC102	11,495	3,325	-	-	3	1,799	3,056
4	HEL0180*±4E^A	EFC136	15,485	4,465	-	-	4	2,398	4,074
4	HEL0220*±4E^A	EFC170	18,620	5,320	-	-	5	2,998	5,093
4	HEL0275*±4E^A	EFC204 EFC235	24,605	7,220	-	-	6	3,597	6,111

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Electric Defrost- 50 Hz (For PSC Motors) †

Please consult AWEF table on page 60 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	CO <sub>2</sub> DX		Fan Data		
			Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts			
6	HEL0040*C6E^A	N/A	3,705	1,086	1	617	1,048
6	HEL0045*C6E^A	N/A	5,035	1,476	1	576	979
6	HEL0065*C6E^A	N/A	6,840	2,005	2	1,234	2,096
6	HEL0080*C6E^A	N/A	7,980	2,339	2	1,234	2,096
6	HEL0100*C6E^A	N/A	9,405	2,756	2	1,153	1,959
6	HEL0130*C6E^A	N/A	12,825	3,759	3	1,850	3,144
6	HEL0155*C6E^A	N/A	15,200	4,455	3	1,729	2,938
6	HEL0170*C6E^A	N/A	17,005	4,984	4	2,467	4,192
6	HEL0205*C6E^A	N/A	19,095	5,596	4	2,306	3,918
6	HEL0240*C6E^A	N/A	21,280	6,237	5	2,882	4,897
6	HEL0255*C6E^A	N/A	25,555	7,489	6	3,701	6,288
6	HEL0310*C6E^A	N/A	29,830	8,742	6	2,459	5,876
4	HEL0045*C4E^A	N/A	4,275	1,253	1	600	1,019
4	HEL0070*C4E^A	N/A	7,030	2,060	2	1,283	2,180
4	HEL0090*C4E^A	N/A	8,360	2,450	2	1,199	2,037
4	HEL0135*C4E^A	N/A	11,495	3,369	3	1,799	3,056
4	HEL0180*C4E^A	N/A	15,485	4,538	4	2,398	4,074
4	HEL0220*C4E^A	N/A	18,620	5,457	5	2,998	5,093
4	HEL0275*C4E^A	N/A	24,605	7,211	6	3,597	6,111

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

† = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

# A2L PERFORMANCE DATA

## Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 61 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m³H
BTUH	Watts	Sq. Ft.	Ft.	BTUH	Watts	Sq. Ft.	Ft.					
6	HEL0040*Y6E^A	4,400	1,290	20	10	3,700	1,084	20	10	1	685	1,164
6	HEL0045*Y6E^A	5,900	1,729	23	10	5,100	1,495	22	10	1	641	1,088
6	HEL0065*Y6E^A	8,100	2,374	27	10	6,900	2,022	26	10	2	1,371	2,329
6	HEL0080*Y6E^A	9,300	2,726	27	10	8,100	2,374	26	10	2	1,371	2,329
6	HEL0100*Y6E^A	11,000	3,224	32	10	9,400	2,755	31	10	2	1,281	2,176
6	HEL0130*Y6E^A	15,100	4,426	34	10	12,900	3,781	33	10	3	2,056	3,493
6	HEL0155*Y6E^A	17,800	5,217	47	20	15,300	4,484	45	20	3	1,922	3,265
6	HEL0170*Y6E^A	20,000	5,862	45	20	17,100	5,012	44	20	4	2,741	4,658
6	HEL0205*Y6E^A	22,400	6,565	55	20	19,200	5,627	53	20	4	2,562	4,353
6	HEL0240*Y6E^A	25,000	7,327	63	20	21,400	6,272	61	20	5	3,203	5,441
6	HEL0255*Y6E^A	30,000	8,792	59	20	25,600	7,503	57	20	6	4,112	6,986
6	HEL0310*Y6E^A	35,100	10,287	72	20	30,000	8,792	70	20	6	3,843	6,529
4	HEL0045*Y4E^A	5,100	1,495	23	10	4,300	1,260	22	10	1	667	1,132
4	HEL0070*Y4E^A	8,300	2,433	27	10	7,000	2,052	26	10	2	1,425	2,422
4	HEL0090*Y4E^A	9,800	2,872	32	10	8,400	2,462	31	10	2	1,332	2,263
4	HEL0135*Y4E^A	13,500	3,957	46	20	11,500	3,370	44	20	3	1,998	3,395
4	HEL0180*Y4E^A	18,200	5,334	55	20	15,500	4,543	53	20	4	2,664	4,527
4	HEL0220*Y4E^A	21,900	6,419	63	20	18,700	5,481	61	20	5	3,331	5,659
4	HEL0275*Y4E^A	28,900	8,470	72	20	24,700	7,239	70	20	6	3,997	6,790

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
<sup>\*</sup> = Electrical Code Designator (see Nomenclature details)  
<sup>^</sup> = Motor Code Designator (see Nomenclature details)  
 Net Capacity is available upon request  
<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)  
<sup>\*\*</sup> Room Area Minimum is calculated using the Line Length from the Safety Shut-off Valve (SSOV) to the Unit Cooler. For applications requiring other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation.

# A2L PERFORMANCE DATA

## Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 61 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ 25°F SST	6°C TD/ -4°C SST	Room Area Minimum**	Line Length			
	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6E^A	4,300	1,260	14	10	1	685	1,164
6	HEL0045*Y6E^A	5,800	1,700	15	10	1	641	1,088
6	HEL0065*Y6E^A	7,800	2,286	18	10	2	1,371	2,329
6	HEL0080*Y6E^A	9,200	2,696	18	10	2	1,371	2,329
6	HEL0100*Y6E^A	10,800	3,165	21	10	2	1,281	2,176
6	HEL0130*Y6E^A	14,700	4,308	22	10	3	2,056	3,493
6	HEL0155*Y6E^A	17,500	5,129	31	20	3	1,922	3,265
6	HEL0170*Y6E^A	19,600	5,744	30	20	4	2,741	4,658
6	HEL0205*Y6E^A	22,000	6,448	36	20	4	2,562	4,353
6	HEL0240*Y6E^A	24,500	7,181	41	20	5	3,203	5,441
6	HEL0255*Y6E^A	29,400	8,617	39	20	6	4,112	6,986
6	HEL0310*Y6E^A	34,300	10,053	47	20	6	3,843	6,529
4	HEL0045*Y4E^A	4,900	1,436	15	10	1	667	1,132
4	HEL0070*Y4E^A	8,100	2,374	18	10	2	1,425	2,422
4	HEL0090*Y4E^A	9,700	2,843	21	10	2	1,332	2,263
4	HEL0135*Y4E^A	13,200	3,869	30	20	3	1,998	3,395
4	HEL0180*Y4E^A	17,800	5,217	36	20	4	2,664	4,527
4	HEL0220*Y4E^A	21,400	6,272	41	20	5	3,331	5,659
4	HEL0275*Y4E^A	28,300	8,294	47	20	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* Room Area Minimum is calculated using the Line Length from the Safety Shut-off Valve (SSOV) to the Unit Cooler. For applications requiring other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation.

# A1 PERFORMANCE DATA

## Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 61 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/25°F SST	6°C TD/-4°F SST	10°F TD/25°F SST	6°C TD/-4°F SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	4,000	1,200	4,500	1,300	1	685	1,164
6	HEL0045*±6E^A	ELC040 ELC047	5,400	1,550	6,100	1,750	1	641	1,088
6	HEL0065*±6E^A	ELC065	7,450	2,150	8,300	2,400	2	1,371	2,329
6	HEL0080*±6E^A	ELC075	8,650	2,500	9,650	2,800	2	1,371	2,329
6	HEL0100*±6E^A	ELC090	10,350	3,000	11,400	3,300	2	1,281	2,176
6	HEL0130*±6E^A	ELC120	13,800	4,000	15,500	4,500	3	2,056	3,493
6	HEL0155*±6E^A	ELC140	16,100	4,650	18,400	5,300	3	1,922	3,265
6	HEL0170*±6E^A	ELC160	18,400	5,300	20,600	5,950	4	2,741	4,658
6	HEL0205*±6E^A	ELC180	20,700	6,000	23,100	6,650	4	2,562	4,353
6	HEL0240*±6E^A	ELC200	23,000	6,650	25,750	7,450	5	3,203	5,441
6	HEL0255*±6E^A	ELC240	27,600	7,950	30,950	8,950	6	4,112	6,986
6	HEL0310*±6E^A	ELC280	32,200	9,300	36,100	10,400	6	3,843	6,529
4	HEL0045*±4E^A	EFC041	4,700	1,400	5,200	1,500	1	667	1,132
4	HEL0070*±4E^A	EFC068	7,800	2,250	8,500	2,450	2	1,425	2,422
4	HEL0090*±4E^A	EFC080	9,200	2,650	10,100	2,900	2	1,332	2,263
4	HEL0135*±4E^A	EFC102	11,750	3,400	13,050	3,800	3	1,998	3,395
4	HEL0180*±4E^A	EFC136	15,650	4,500	17,650	5,100	4	2,664	4,527
4	HEL0220*±4E^A	EFC170	19,550	5,650	21,850	6,300	5	3,331	5,659
4	HEL0275*±4E^A	EFC204 EFC235	27,000	7,800	29,800	8,600	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 61 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/25°F SST	6°C TD/-4°F SST	10°F TD/25°F SST	6°C TD/-4°F SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6E^A	ELC035 ELC040	4,500	1,300	-	-	1	685	1,164
6	HEL0045*±6E^A	ELC040 ELC047	6,100	1,750	-	-	1	641	1,088
6	HEL0065*±6E^A	ELC065	8,300	2,400	-	-	2	1,371	2,329
6	HEL0080*±6E^A	ELC075	9,650	2,800	-	-	2	1,371	2,329
6	HEL0100*±6E^A	ELC090	11,400	3,300	-	-	2	1,281	2,176
6	HEL0130*±6E^A	ELC120	15,500	4,500	-	-	3	2,056	3,493
6	HEL0155*±6E^A	ELC140	18,400	5,300	-	-	3	1,922	3,265
6	HEL0170*±6E^A	ELC160	20,600	5,950	-	-	4	2,741	4,658
6	HEL0205*±6E^A	ELC180	23,100	6,650	-	-	4	2,562	4,353
6	HEL0240*±6E^A	ELC200	25,750	7,450	-	-	5	3,203	5,441
6	HEL0255*±6E^A	ELC240	30,950	8,950	-	-	6	4,112	6,986
6	HEL0310*±6E^A	ELC280	36,100	10,400	-	-	6	3,843	6,529
4	HEL0045*±4E^A	EFC041	5,200	1,500	-	-	1	667	1,132
4	HEL0070*±4E^A	EFC068	8,500	2,450	-	-	2	1,425	2,422
4	HEL0090*±4E^A	EFC080	10,100	2,900	-	-	2	1,332	2,263
4	HEL0135*±4E^A	EFC102	13,050	3,800	-	-	3	1,998	3,395
4	HEL0180*±4E^A	EFC136	17,650	5,100	-	-	4	2,664	4,527
4	HEL0220*±4E^A	EFC170	21,850	6,300	-	-	5	3,331	5,659
4	HEL0275*±4E^A	EFC204 EFC235	29,800	8,600	-	-	6	3,997	6,790

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Medium Temperature Electric Defrost- 60 Hz

Please consult AWEF table on page 61 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	CO <sub>2</sub> DX				
			Application Capacity <sup>1</sup>		Fan Data		
			10°F TD/25°F SST	6°C TD/-4°C SST			
			BTUH	Watts	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*C6E^A	N/A	4,500	1,319	1	685	1,164
6	HEL0045*C6E^A	N/A	6,100	1,788	1	641	1,089
6	HEL0065*C6E^A	N/A	8,300	2,432	2	1,371	2,329
6	HEL0080*C6E^A	N/A	9,650	2,828	2	1,371	2,329
6	HEL0100*C6E^A	N/A	11,400	3,341	2	1,281	2,176
6	HEL0130*C6E^A	N/A	15,500	4,543	3	2,056	3,493
6	HEL0155*C6E^A	N/A	18,400	5,393	3	1,922	3,265
6	HEL0170*C6E^A	N/A	20,600	6,037	4	2,741	4,657
6	HEL0205*C6E^A	N/A	23,100	6,770	4	2,562	4,353
6	HEL0240*C6E^A	N/A	25,750	7,547	5	3,203	5,442
6	HEL0255*C6E^A	N/A	30,950	9,071	6	4,112	6,986
6	HEL0310*C6E^A	N/A	36,100	10,580	6	3,843	6,529
4	HEL0045*C4E^A	N/A	5,200	1,524	1	641	1,089
4	HEL0070*C4E^A	N/A	8,500	2,491	2	1,425	2,421
4	HEL0090*C4E^A	N/A	10,100	2,960	2	1,332	2,263
4	HEL0135*C4E^A	N/A	13,050	3,825	3	1,998	3,395
4	HEL0180*C4E^A	N/A	17,650	5,173	4	2,664	4,526
4	HEL0220*C4E^A	N/A	21,850	6,404	5	3,331	5,659
4	HEL0275*C4E^A	N/A	29,800	8,734	6	3,997	6,791

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
 \* = Electrical Code Designator (see Nomenclature details)  
 ^ = Motor Code Designator (see Nomenclature details)  
 Net Capacity is available upon request

# SPECIFICATIONS

## Electric Defrost- 60 Hz

FPI	New Model	HP	2-Speed EC Motor (Totally Enclosed)				Defrost Heaters-230V			Defrost Heaters-460V	
			208-230/1/60				Watts	230/1/60	230/3/60	Watts	460/1/60
			Amps	Watts	MCA	MOPD					
6	HEL0040*±6EMA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0045*±6EMA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0065*±6EMA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0080*±6EMA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0100*±6EMA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0130*±6EMA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0155*±6EMA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0170*±6EMA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0205*±6EMA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0240*±6EMA	1/20	2.5	275	2.6	15	5,250	22.8	14.2	4,500	9.8
6	HEL0255*±6EMA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7
6	HEL0310*±6EMA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7
4	HEL0045*±4EMA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
4	HEL0070*±4EMA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0090*±4EMA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0135*±4EMA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
4	HEL0180*±4EMA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
4	HEL0220*±4EMA	1/20	2.5	275	2.6	15	5,250	22.8	14.2	4,500	9.8
4	HEL0275*±4EMA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7

FPI	New Model	HP	1-Speed EC Motor (Totally Enclosed)				Defrost Heaters-230V			Defrost Heaters-460V	
			208-230/1/60				Watts	230/1/60	230/3/60	Watts	460/1/60
			Amps	Watts	MCA	MOPD					
6	HEL0040*±6EEA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0045*±6EEA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0065*±6EEA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0080*±6EEA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0100*±6EEA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0130*±EEA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0155*±6EMA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0170*±6EMA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0205*±6EMA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0240*±6EMA	1/20	2.5	275	2.6	15	5,250	22.8	14.2	4,500	9.8
6	HEL0255*±6EMA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7
6	HEL0310*±6EMA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7
4	HEL0045*±4EEA	1/20	0.5	55	0.6	15	1,050	4.6	2.8	900	2.0
4	HEL0070*±4EEA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0090*±4EEA	1/20	1.0	110	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0135*±4EEA	1/20	1.5	165	1.6	15	3,150	13.7	8.5	2,700	5.9
4	HEL0180*±4EEA	1/20	2.0	220	2.1	15	4,200	18.3	11.4	3,600	7.8
4	HEL0220*±4EEA	1/20	2.5	275	2.6	15	5,250	22.8	14.2	4,500	9.8
4	HEL0275*±4EEA	1/20	3.0	330	3.1	15	6,300	27.4	17.1	5,400	11.7

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Electric Defrost- 60 Hz

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Defrost Heaters-230V			Defrost Heaters-460V	
			208-230/1/60				Watts	230/1/60	230/3/60	Watts	460/1/60
			Amps	Watts	MCA	MOPD		Total Amps			Total Amps
6	HEL0040*±6ECA	1/20	0.5	91	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0045*±6ECA	1/20	0.5	91	0.6	15	1,050	4.6	2.8	900	2.0
6	HEL0065*±6ECA	1/20	1.0	182	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0080*±6ECA	1/20	1.0	182	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0100*±6ECA	1/20	1.0	182	1.1	15	2,100	9.1	5.7	1,800	3.9
6	HEL0130*±6ECA	1/20	1.5	273	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0155*±6ECA	1/20	1.5	273	1.6	15	3,150	13.7	8.5	2,700	5.9
6	HEL0170*±6ECA	1/20	2.0	364	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0205*±6ECA	1/20	2.0	364	2.1	15	4,200	18.3	11.4	3,600	7.8
6	HEL0240*±6ECA	1/20	2.5	455	2.6	15	5,250	22.8	14.2	4,500	9.8
6	HEL0255*±6ECA	1/20	3.0	546	3.1	15	6,300	27.4	17.1	5,400	11.7
6	HEL0310*±6ECA	1/20	3.0	546	3.1	15	6,300	27.4	17.1	5,400	11.7
4	HEL0045*±4ECA	1/20	0.5	91	0.6	15	1,050	4.6	2.8	900	2.0
4	HEL0070*±4ECA	1/20	1.0	182	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0090*±4ECA	1/20	1.0	182	1.1	15	2,100	9.1	5.7	1,800	3.9
4	HEL0135*±4ECA	1/20	1.5	273	1.6	15	3,150	13.7	8.5	2,700	5.9
4	HEL0180*±4ECA	1/20	2.0	364	2.1	15	4,200	18.3	11.4	3,600	7.8
4	HEL0220*±4ECA	1/20	2.5	455	2.6	15	5,250	22.8	14.2	4,500	9.8
4	HEL0275*±4ECA	1/20	3.0	546	3.1	15	6,300	27.4	17.1	5,400	11.7

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Defrost Heaters-230V			Defrost Heaters-460V	
			460/1/60				Watts	230/1/60	230/3/60	Watts	460/1/60
			Amps	Watts	MCA	MOPD		Total Amps			Total Amps
6	HEL0040*±6ECA	1/20	0.4	117	0.5	15	1,050	4.6	2.8	900	2.0
6	HEL0045*±6ECA	1/20	0.4	117	0.5	15	1,050	4.6	2.8	900	2.0
6	HEL0065*±6ECA	1/20	0.8	234	0.9	15	2,100	9.1	5.7	1,800	3.9
6	HEL0080*±6ECA	1/20	0.8	234	0.9	15	2,100	9.1	5.7	1,800	3.9
6	HEL0100*±6ECA	1/20	0.8	234	0.9	15	2,100	9.1	5.7	1,800	3.9
6	HEL0130*±6ECA	1/20	1.2	351	1.3	15	3,150	13.7	8.5	2,700	5.9
6	HEL0155*±6ECA	1/20	1.2	351	1.3	15	3,150	13.7	8.5	2,700	5.9
6	HEL0170*±6ECA	1/20	1.6	468	1.7	15	4,200	18.3	11.4	3,600	7.8
6	HEL0205*±6ECA	1/20	1.6	468	1.7	15	4,200	18.3	11.4	3,600	7.8
6	HEL0240*±6ECA	1/20	2.0	585	2.1	15	5,250	22.8	14.2	4,500	9.8
6	HEL0255*±6ECA	1/20	2.4	702	2.5	15	6,300	27.4	17.1	5,400	11.7
6	HEL0310*±6ECA	1/20	2.4	702	2.5	15	6,300	27.4	17.1	5,400	11.7
4	HEL0045*±4ECA	1/20	0.4	117	0.5	15	1,050	4.6	2.8	900	2.0
4	HEL0070*±4ECA	1/20	0.8	234	0.9	15	2,100	9.1	5.7	1,800	3.9
4	HEL0090*±4ECA	1/20	0.8	234	0.9	15	2,100	9.1	5.7	1,800	3.9
4	HEL0135*±4ECA	1/20	1.2	351	1.3	15	3,150	13.7	8.5	2,700	5.9
4	HEL0180*±4ECA	1/20	1.6	468	1.7	15	4,200	18.3	11.4	3,600	7.8
4	HEL0220*±4ECA	1/20	2.0	585	2.1	15	5,250	22.8	14.2	4,500	9.8
4	HEL0275*±4ECA	1/20	2.4	702	2.5	15	6,300	27.4	17.1	5,400	11.7

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Electric Defrost- 50 Hz

FPI	New Model	HP	2-Speed EC Motor (Totally Enclosed)				Defrost Heaters	
			220/1/50				Watts	220/1/50 Total Amps
			Amps	Watts	MCA	MOPD		
6	HEL0040*±6EMA	1/20	0.5	55	0.6	15	960	4.4
6	HEL0045*±6EMA	1/20	0.5	55	0.6	15	960	4.4
6	HEL0065*±6EMA	1/20	1.0	110	1.1	15	1,920	8.7
6	HEL0080*±6EMA	1/20	1.0	110	1.1	15	1,920	8.7
6	HEL0100*±6EMA	1/20	1.0	110	1.1	15	1,920	8.7
6	HEL0130*±6EMA	1/20	1.5	165	1.6	15	2,880	13.1
6	HEL0155*±6EMA	1/20	1.5	165	1.6	15	2,880	13.1
6	HEL0170*±6EMA	1/20	2.0	220	2.1	15	3,845	17.5
6	HEL0205*±6EMA	1/20	2.0	220	2.1	15	3,845	17.5
6	HEL0240*±6EMA	1/20	2.5	275	2.6	15	4,805	21.8
6	HEL0255*±6EMA	1/20	3.0	330	3.1	15	5,765	26.2
6	HEL0310*±6EMA	1/20	3.0	330	3.1	15	5,765	26.2
4	HEL0045*±4EMA	1/20	0.5	55	0.6	15	960	4.4
4	HEL0070*±4EMA	1/20	1.0	110	1.1	15	1,920	8.7
4	HEL0090*±4EMA	1/20	1.0	110	1.1	15	1,920	8.7
4	HEL0135*±4EMA	1/20	1.5	165	1.6	15	2,880	13.1
4	HEL0180*±4EMA	1/20	2.0	220	2.1	15	3,845	17.5
4	HEL0220*±4EMA	1/20	2.5	275	2.6	15	4,805	21.8
4	HEL0275*±4EMA	1/20	3.0	330	3.1	15	5,765	26.2

FPI	New Model	HP	1-Speed EC Motor (Totally Enclosed)				Defrost Heaters	
			220/1/50				Watts	220/1/50 Total Amps
			Amps	Watts	MCA	MOPD		
6	HEL0040*±6EEA	1/20	0.5	59	0.6	15	960	4.4
6	HEL0045*±6EEA	1/20	0.5	59	0.6	15	960	4.4
6	HEL0065*±6EEA	1/20	1.0	118	1.1	15	1,920	8.7
6	HEL0080*±6EEA	1/20	1.0	118	1.1	15	1,920	8.7
6	HEL0100*±6EEA	1/20	1.0	118	1.1	15	1,920	8.7
6	HEL0130*±6EEA	1/20	1.5	177	1.6	15	2,880	13.1
6	HEL0155*±6EEA	1/20	1.5	177	1.6	15	2,880	13.1
6	HEL0170*±6EEA	1/20	2.0	236	2.1	15	3,845	17.5
6	HEL0205*±6EEA	1/20	2.0	236	2.1	15	3,845	17.5
6	HEL0240*±6EEA	1/20	2.5	295	2.6	15	4,805	21.8
6	HEL0255*±6EEA	1/20	3.0	354	3.1	15	5,765	26.2
6	HEL0310*±6EEA	1/20	3.0	354	3.1	15	5,765	26.2
4	HEL0045*±4EEA	1/20	0.5	59	0.6	15	960	4.4
4	HEL0070*±4EEA	1/20	1.0	118	1.1	15	1,920	8.7
4	HEL0090*±4EEA	1/20	1.0	118	1.1	15	1,920	8.7
4	HEL0135*±4EEA	1/20	1.5	177	1.6	15	2,880	13.1
4	HEL0180*±4EEA	1/20	2.0	236	2.1	15	3,845	17.5
4	HEL0220*±4EEA	1/20	2.5	295	2.6	15	4,805	21.8
4	HEL0275*±4EEA	1/20	3.0	354	3.1	15	5,765	26.2

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

Electric Defrost- 50 Hz

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Defrost Heaters	
			220/1/50				Watts	220/1/50
			Amps	Watts	MCA	MOPD		Total Amps
6	HEL0040*±6ECA	1/20	0.5	65	0.6	15	960	4.4
6	HEL0045*±6ECA	1/20	0.5	65	0.6	15	960	4.4
6	HEL0065*±6ECA	1/20	1.0	130	1.1	15	1,920	8.7
6	HEL0080*±6ECA	1/20	1.0	130	1.1	15	1,920	8.7
6	HEL0100*±6ECA	1/20	1.0	130	1.1	15	1,920	8.7
6	HEL0130*±6ECA	1/20	1.5	195	1.6	15	2,880	13.1
6	HEL0155*±6ECA	1/20	1.5	195	1.6	15	2,880	13.1
6	HEL0170*±6ECA	1/20	2.0	260	2.1	15	3,845	17.5
6	HEL0205*±6ECA	1/20	2.0	260	2.1	15	3,845	17.5
6	HEL0240*±6ECA	1/20	2.5	325	2.6	15	4,805	21.8
6	HEL0255*±6ECA	1/20	3.0	390	3.1	15	5,765	26.2
6	HEL0310*±6ECA	1/20	3.0	390	3.1	15	5,765	26.2
4	HEL0045*±4ECA	1/20	0.5	65	0.6	15	960	4.4
4	HEL0070*±4ECA	1/20	1.0	130	1.1	15	1,920	8.7
4	HEL0090*±4ECA	1/20	1.0	130	1.1	15	1,920	8.7
4	HEL0135*±4ECA	1/20	1.5	195	1.6	15	2,880	13.1
4	HEL0180*±4ECA	1/20	2.0	260	2.1	15	3,845	17.5
4	HEL0220*±4ECA	1/20	2.5	325	2.6	15	4,805	21.8
4	HEL0275*±4ECA	1/20	3.0	390	3.1	15	5,765	26.2

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# A2L PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6H^A	3,800	1,114	20	10	3,200	938	20	10	1	685	1,164
6	HEL0045*Y6H^A	5,100	1,495	23	10	4,400	1,290	22	10	1	641	1,088
6	HEL0065*Y6H^A	7,000	2,052	27	10	6,000	1,758	26	10	2	1,371	2,329
6	HEL0080*Y6H^A	8,100	2,374	27	10	7,000	2,052	26	10	2	1,371	2,329
6	HEL0100*Y6H^A	9,600	2,814	32	10	8,200	2,403	31	10	2	1,281	2,176
6	HEL0130*Y6H^A	13,100	3,839	34	10	11,200	3,283	33	10	3	2,056	3,493
6	HEL0155*Y6H^A	15,500	4,543	47	20	13,300	3,898	45	20	3	1,922	3,265
6	HEL0170*Y6H^A	17,400	5,100	45	20	14,900	4,367	44	20	4	2,741	4,658
6	HEL0205*Y6H^A	19,500	5,715	55	20	16,700	4,894	53	20	4	2,562	4,353
6	HEL0240*Y6H^A	21,700	6,360	63	20	18,600	5,451	61	20	5	3,203	5,441
6	HEL0255*Y6H^A	26,100	7,649	59	20	22,300	6,536	57	20	6	4,112	6,986
6	HEL0310*Y6H^A	30,500	8,939	72	20	26,100	7,649	70	20	6	3,843	6,529
4	HEL0045*Y4H^A	4,400	1,290	23	10	3,700	1,084	22	10	1	667	1,132
4	HEL0070*Y4H^A	7,200	2,110	27	10	6,100	1,788	26	10	2	1,425	2,422
4	HEL0090*Y4H^A	8,500	2,491	32	10	7,300	2,140	31	10	2	1,332	2,263
4	HEL0135*Y4H^A	11,700	3,429	46	20	10,000	2,931	44	20	3	1,998	3,395
4	HEL0180*Y4H^A	15,800	4,631	55	20	13,500	3,957	53	20	4	2,664	4,527
4	HEL0220*Y4H^A	19,000	5,569	63	20	16,300	4,777	61	20	5	3,331	5,659
4	HEL0275*Y4H^A	25,100	7,356	72	20	21,500	6,301	70	20	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* = With Electric Drainpan. For Hot Gas Drainpan, refer to The HUB/call AE for updated Room Area Minimum

\*\* Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A2L PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length			
FPI	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HELO040*Y6H^A	3,700	1,084	14	10	1	685	1,164
6	HELO045*Y6H^A	5,000	1,465	15	10	1	641	1,088
6	HELO065*Y6H^A	6,800	1,993	18	10	2	1,371	2,329
6	HELO080*Y6H^A	8,000	2,345	18	10	2	1,371	2,329
6	HELO100*Y6H^A	9,400	2,755	21	10	2	1,281	2,176
6	HELO130*Y6H^A	12,800	3,751	22	10	3	2,056	3,493
6	HELO155*Y6H^A	15,200	4,455	31	20	3	1,922	3,265
6	HELO170*Y6H^A	17,000	4,982	30	20	4	2,741	4,658
6	HELO205*Y6H^A	19,100	5,598	36	20	4	2,562	4,353
6	HELO240*Y6H^A	21,300	6,243	41	20	5	3,203	5,441
6	HELO255*Y6H^A	25,600	7,503	39	20	6	4,112	6,986
6	HELO310*Y6H^A	29,800	8,734	47	20	6	3,843	6,529
4	HELO045*Y4H^A	4,300	1,260	15	10	1	667	1,132
4	HELO070*Y4H^A	7,000	2,052	18	10	2	1,425	2,422
4	HELO090*Y4H^A	8,400	2,462	21	10	2	1,332	2,263
4	HELO135*Y4H^A	11,500	3,370	30	20	3	1,998	3,395
4	HELO180*Y4H^A	15,500	4,543	36	20	4	2,664	4,527
4	HELO220*Y4H^A	18,600	5,451	41	20	5	3,331	5,659
4	HELO275*Y4H^A	24,600	7,210	47	20	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

† = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	3,500	1,000	3,900	1,000	1	685	1,164
6	HEL0045*±6H^A	GLC040 GLC047	4,700	1,400	5,300	1,600	1	641	1,088
6	HEL0065*±6H^A	GLC065	6,500	1,900	7,200	2,100	2	1,371	2,329
6	HEL0080*±6H^A	GLC075	7,500	2,200	8,400	2,500	2	1,371	2,329
6	HEL0100*±6H^A	GLC090	9,000	2,600	9,900	2,900	2	1,281	2,176
6	HEL0130*±6H^A	GLC120	12,000	3,500	13,500	4,000	3	2,056	3,493
6	HEL0155*±6H^A	GLC140	14,000	4,100	16,000	4,700	3	1,922	3,265
6	HEL0170*±6H^A	GLC160	16,000	4,700	17,900	5,200	4	2,741	4,658
6	HEL0205*±6H^A	GLC180	18,000	5,300	20,100	5,900	4	2,562	4,353
6	HEL0240*±6H^A	GLC200	20,000	5,900	22,800	6,600	5	3,203	5,441
6	HEL0255*±6H^A	GLC240	24,000	7,000	26,900	7,900	6	4,112	6,986
6	HEL0310*±6H^A	GLC280	28,000	8,200	31,400	9,200	6	3,843	6,529
4	HEL0045*±4H^A	GLC041	4,100	1,200	4,500	1,300	1	667	1,132
4	HEL0070*±4H^A	GLC068	6,800	2,000	7,400	2,200	2	1,425	2,422
4	HEL0090*±4H^A	GLC080	8,000	2,300	8,800	2,600	2	1,332	2,263
4	HEL0135*±4H^A	GLC102	10,200	3,000	12,800	3,700	3	1,998	3,395
4	HEL0180*±4H^A	GLC136	13,600	4,000	17,300	5,000	4	2,664	4,527
4	HEL0220*±4H^A	GLC170	17,000	5,000	19,500	5,600	5	3,331	5,659
4	HEL0275*±4H^A	GLC204 GLC235	23,500	6,900	25,900	7,600	6	3,997	6,790

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	3,900	1,000	-	-	1	685	1,164
6	HEL0045*±6H^A	GLC040 GLC047	5,300	1,600	-	-	1	641	1,088
6	HEL0065*±6H^A	GLC065	7,200	2,100	-	-	2	1,371	2,329
6	HEL0080*±6H^A	GLC075	8,400	2,500	-	-	2	1,371	2,329
6	HEL0100*±6H^A	GLC090	9,900	2,900	-	-	2	1,281	2,176
6	HEL0130*±6H^A	GLC120	13,500	4,000	-	-	3	2,056	3,493
6	HEL0155*±6H^A	GLC140	16,000	4,700	-	-	3	1,922	3,265
6	HEL0170*±6H^A	GLC160	17,900	5,200	-	-	4	2,741	4,658
6	HEL0205*±6H^A	GLC180	20,100	5,900	-	-	4	2,562	4,353
6	HEL0240*±6H^A	GLC200	22,400	6,500	-	-	5	3,203	5,441
6	HEL0255*±6H^A	GLC240	26,900	7,900	-	-	6	4,112	6,986
6	HEL0310*±6H^A	GLC280	31,400	9,200	-	-	6	3,843	6,529
4	HEL0045*±4H^A	GLC041	4,500	1,300	-	-	1	667	1,132
4	HEL0070*±4H^A	GLC068	7,400	2,200	-	-	2	1,425	2,422
4	HEL0090*±4H^A	GLC080	8,800	2,600	-	-	2	1,332	2,263
4	HEL0135*±4H^A	GLC102	12,100	3,500	-	-	3	1,998	3,395
4	HEL0180*±4H^A	GLC136	16,300	4,700	-	-	4	2,664	4,527
4	HEL0220*±4H^A	GLC170	19,600	5,500	-	-	5	3,331	5,659
4	HEL0275*±4H^A	GLC204 GLC235	25,900	7,600	-	-	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A2L PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6H^A	3,563	1,044	20	10	3,032	889	20	10	1	617	1,048
6	HEL0045*Y6H^A	4,167	1,221	23	10	3,449	1,011	22	10	1	576	979
6	HEL0065*Y6H^A	7,267	2,130	27	10	6,091	1,785	26	10	2	1,234	2,096
6	HEL0080*Y6H^A	7,267	2,130	27	10	6,091	1,785	26	10	2	1,234	2,096
6	HEL0100*Y6H^A	8,960	2,626	32	10	7,961	2,333	31	10	2	1,153	1,959
6	HEL0130*Y6H^A	10,908	3,197	34	10	9,547	2,798	33	10	3	1,850	3,144
6	HEL0155*Y6H^A	13,113	3,843	47	20	11,613	3,403	45	20	3	1,729	2,938
6	HEL0170*Y6H^A	14,384	4,216	45	20	12,078	3,540	44	20	4	2,467	4,192
6	HEL0205*Y6H^A	17,372	5,091	55	20	14,866	4,357	53	20	4	2,306	3,918
6	HEL0240*Y6H^A	20,960	6,143	63	20	17,329	5,079	61	20	5	2,882	4,897
6	HEL0255*Y6H^A	21,846	6,403	59	20	18,464	5,411	57	20	6	3,701	6,288
6	HEL0310*Y6H^A	21,823	6,396	72	20	19,212	5,631	70	20	6	2,459	5,876
4	HEL0045*Y4H^A	3,404	998	23	10	2,872	842	22	10	1	600	1,019
4	HEL0070*Y4H^A	5,841	1,712	27	10	4,972	1,457	26	10	2	1,283	2,180
4	HEL0090*Y4H^A	7,138	2,092	32	10	6,436	1,886	31	10	2	1,199	2,037
4	HEL0135*Y4H^A	10,916	3,199	46	20	9,516	2,789	44	20	3	1,799	3,056
4	HEL0180*Y4H^A	14,696	4,307	55	20	12,777	3,745	53	20	4	2,398	4,074
4	HEL0220*Y4H^A	17,799	5,217	63	20	15,039	4,408	61	20	5	2,998	5,093
4	HEL0275*Y4H^A	22,132	6,487	72	20	19,462	5,704	70	20	6	3,597	6,111

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A2L PERFORMANCE DATA

Application Capacity: Low Temperature Hot Gas Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length			
FPI	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6H^A	3,670	1,076	14	10	1	617	1,048
6	HEL0045*Y6H^A	4,292	1,258	15	10	1	576	979
6	HEL0065*Y6H^A	7,485	2,194	18	10	2	1,234	2,096
6	HEL0080*Y6H^A	7,485	2,194	18	10	2	1,234	2,096
6	HEL0100*Y6H^A	9,229	2,705	21	10	2	1,153	1,959
6	HEL0130*Y6H^A	11,235	3,293	22	10	3	1,850	3,144
6	HEL0155*Y6H^A	13,507	3,959	31	20	3	1,729	2,938
6	HEL0170*Y6H^A	14,816	4,342	30	20	4	2,467	4,192
6	HEL0205*Y6H^A	17,893	5,244	36	20	4	2,306	3,918
6	HEL0240*Y6H^A	21,589	6,327	41	20	5	2,882	4,897
6	HEL0255*Y6H^A	22,502	6,595	39	20	6	3,701	6,288
6	HEL0310*Y6H^A	22,478	6,588	47	20	6	2,459	5,876
4	HEL0045*Y4H^A	3,506	1,027	15	10	1	600	1,019
4	HEL0070*Y4H^A	6,016	1,763	18	10	2	1,283	2,180
4	HEL0090*Y4H^A	7,352	2,155	21	10	2	1,199	2,037
4	HEL0135*Y4H^A	11,243	3,295	30	20	3	1,799	3,056
4	HEL0180*Y4H^A	15,137	4,436	36	20	4	2,398	4,074
4	HEL0220*Y4H^A	18,333	5,373	41	20	5	2,998	5,093
4	HEL0275*Y4H^A	22,796	6,681	47	20	6	3,597	6,111

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
<sup>\*</sup> = Electrical Code Designator (see Nomenclature details)  
<sup>^</sup> = Motor Code Designator (see Nomenclature details)  
 Net Capacity is available upon request  
<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)  
<sup>\*\*</sup> Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	3,325	950	3,705	950	1	617	1,048
6	HEL0045*±6H^A	GLC040 GLC047	4,465	1,330	5,035	1,520	1	576	979
6	HEL0065*±6H^A	GLC065	6,175	1,805	6,840	1,995	2	1,234	2,096
6	HEL0080*±6H^A	GLC075	7,125	2,090	7,980	2,375	2	1,234	2,096
6	HEL0100*±6H^A	GLC090	8,550	2,470	9,405	2,755	2	1,153	1,959
6	HEL0130*±6H^A	GLC120	11,400	3,325	12,825	3,800	3	1,850	3,144
6	HEL0155*±6H^A	GLC140	13,300	3,895	15,200	4,465	3	1,729	2,938
6	HEL0170*±6H^A	GLC160	15,200	4,465	17,005	4,940	4	2,467	4,192
6	HEL0205*±6H^A	GLC180	17,100	5,035	19,095	5,605	4	2,306	3,918
6	HEL0240*±6H^A	GLC200	19,000	5,605	21,660	6,270	5	2,882	4,897
6	HEL0255*±6H^A	GLC240	22,800	6,650	25,555	7,505	6	3,701	6,288
6	HEL0310*±6H^A	GLC280	26,600	7,790	29,830	8,740	6	2,459	5,876
4	HEL0045*±4H^A	GLC041	3,895	1,140	4,275	1,235	1	600	1,019
4	HEL0070*±4H^A	GLC068	6,460	1,900	7,030	2,090	2	1,283	2,180
4	HEL0090*±4H^A	GLC080	7,600	2,185	8,360	2,470	2	1,199	2,037
4	HEL0135*±4H^A	GLC102	9,690	2,850	12,160	3,515	3	1,799	3,056
4	HEL0180*±4H^A	GLC136	12,920	3,800	16,435	4,750	4	2,398	4,074
4	HEL0220*±4H^A	GLC170	16,150	4,750	18,525	5,320	5	2,998	5,093
4	HEL0275*±4H^A	GLC204 GLC235	22,325	6,555	24,605	7,220	6	3,597	6,111

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Low Temperature Hot Gas Defrost- 50 Hz (For PSC Motors)<sup>†</sup>

Please consult AWEF table on page 62 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/-20°F SST	6°C TD/-29°C SST	10°F TD/-20°F SST	6°C TD/-29°C SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	3,705	950	-	-	1	617	1,048
6	HEL0045*±6H^A	GLC040 GLC047	5,035	1,520	-	-	1	576	979
6	HEL0065*±6H^A	GLC065	6,840	1,995	-	-	2	1,234	2,096
6	HEL0080*±6H^A	GLC075	7,980	2,375	-	-	2	1,234	2,096
6	HEL0100*±6H^A	GLC090	9,405	2,755	-	-	2	1,153	1,959
6	HEL0130*±6H^A	GLC120	12,825	3,800	-	-	3	1,850	3,144
6	HEL0155*±6H^A	GLC140	15,200	4,465	-	-	3	1,729	2,938
6	HEL0170*±6H^A	GLC160	17,005	4,940	-	-	4	2,467	4,192
6	HEL0205*±6H^A	GLC180	19,095	5,605	-	-	4	2,306	3,918
6	HEL0240*±6H^A	GLC200	21,280	6,175	-	-	5	2,882	4,897
6	HEL0255*±6H^A	GLC240	25,555	7,505	-	-	6	3,701	6,288
6	HEL0310*±6H^A	GLC280	29,830	8,740	-	-	6	2,459	5,876
4	HEL0045*±4H^A	GLC041	4,275	1,235	-	-	1	600	1,019
4	HEL0070*±4H^A	GLC068	7,030	2,090	-	-	2	1,283	2,180
4	HEL0090*±4H^A	GLC080	8,360	2,470	-	-	2	1,199	2,037
4	HEL0135*±4H^A	GLC102	11,495	3,325	-	-	3	1,799	3,056
4	HEL0180*±4H^A	GLC136	15,485	4,465	-	-	4	2,398	4,074
4	HEL0220*±4H^A	GLC170	18,620	5,225	-	-	5	2,998	5,093
4	HEL0275*±4H^A	GLC204 GLC235	24,605	7,220	-	-	6	3,597	6,111

**Notes:**  
<sup>1</sup> = 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](http://www.regulations.doe.gov)  
\* = Electrical Code Designator (see Nomenclature details)  
^ = Motor Code Designator (see Nomenclature details)  
Net Capacity is available upon request  
<sup>†</sup> = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)  
± = Y/S (see Nomenclature details)

# A2L PERFORMANCE DATA

## Application Capacity: Medium Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 63 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	R454A				R454C				Fan Data		
		Application Capacity <sup>1</sup>				Application Capacity <sup>1</sup>						
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6H^A	4,400	1,290	20	10	3,700	1,084	20	10	1	685	1,164
6	HEL0045*Y6H^A	5,900	1,729	23	10	5,100	1,495	22	10	1	641	1,088
6	HEL0065*Y6H^A	8,100	2,374	27	10	6,900	2,022	26	10	2	1,371	2,329
6	HEL0080*Y6H^A	9,300	2,726	27	10	8,100	2,374	26	10	2	1,371	2,329
6	HEL0100*Y6H^A	11,000	3,224	32	10	9,400	2,755	31	10	2	1,281	2,176
6	HEL0130*Y6H^A	15,100	4,426	34	10	12,900	3,781	33	10	3	2,056	3,493
6	HEL0155*Y6H^A	17,800	5,217	47	20	15,300	4,484	45	20	3	1,922	3,265
6	HEL0170*Y6H^A	20,000	5,862	45	20	17,100	5,012	44	20	4	2,741	4,658
6	HEL0205*Y6H^A	22,400	6,565	55	20	19,200	5,627	53	20	4	2,562	4,353
6	HEL0240*Y6H^A	25,000	7,327	63	20	21,400	6,272	61	20	5	3,203	5,441
6	HEL0255*Y6H^A	30,000	8,792	59	20	25,600	7,503	57	20	6	4,112	6,986
6	HEL0310*Y6H^A	35,100	10,287	72	20	30,000	8,792	70	20	6	3,843	6,529
4	HEL0045*Y4H^A	5,100	1,495	23	10	4,300	1,260	22	10	1	667	1,132
4	HEL0070*Y4H^A	8,300	2,433	27	10	7,000	2,052	26	10	2	1,425	2,422
4	HEL0090*Y4H^A	9,800	2,872	32	10	8,400	2,462	31	10	2	1,332	2,263
4	HEL0135*Y4H^A	13,500	3,957	46	20	11,500	3,370	44	20	3	1,998	3,395
4	HEL0180*Y4H^A	18,200	5,334	55	20	15,500	4,543	53	20	4	2,664	4,527
4	HEL0220*Y4H^A	21,900	6,419	63	20	18,700	5,481	61	20	5	3,331	5,659
4	HEL0275*Y4H^A	28,900	8,470	72	20	24,700	7,239	70	20	6	3,997	6,790

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

† = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A2L PERFORMANCE DATA

## Application Capacity: Medium Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 63 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

		R455A						
		Application Capacity <sup>1</sup>				Fan Data		
		10°F TD/ -20°F SST	6°C TD/ -29°C SST	Room Area Minimum**	Line Length			
FPI	New Model	BTUH	Watts	Sq. Ft.	Ft.	No. of Fans	CFM	m <sup>3</sup> H
6	HEL0040*Y6H^A	4,300	1,260	14	10	1	685	1,164
6	HEL0045*Y6H^A	5,800	1,700	15	10	1	641	1,088
6	HEL0065*Y6H^A	7,800	2,286	18	10	2	1,371	2,329
6	HEL0080*Y6H^A	9,200	2,696	18	10	2	1,371	2,329
6	HEL0100*Y6H^A	10,800	3,165	21	10	2	1,281	2,176
6	HEL0130*Y6H^A	14,700	4,308	22	10	3	2,056	3,493
6	HEL0155*Y6H^A	17,500	5,129	31	20	3	1,922	3,265
6	HEL0170*Y6H^A	19,600	5,744	30	20	4	2,741	4,658
6	HEL0205*Y6H^A	22,000	6,448	36	20	4	2,562	4,353
6	HEL0240*Y6H^A	24,500	7,181	41	20	5	3,203	5,441
6	HEL0255*Y6H^A	29,400	8,617	39	20	6	4,112	6,986
6	HEL0310*Y6H^A	34,300	10,053	47	20	6	3,843	6,529
4	HEL0045*Y4H^A	4,900	1,436	15	10	1	667	1,132
4	HEL0070*Y4H^A	8,100	2,374	18	10	2	1,425	2,422
4	HEL0090*Y4H^A	9,700	2,843	21	10	2	1,332	2,263
4	HEL0135*Y4H^A	13,200	3,869	30	20	3	1,998	3,395
4	HEL0180*Y4H^A	17,800	5,217	36	20	4	2,664	4,527
4	HEL0220*Y4H^A	21,400	6,272	41	20	5	3,331	5,659
4	HEL0275*Y4H^A	28,300	8,294	47	20	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

† = For 1-speed and 2-speed EC motors, use 60 Hz capacity and airflow values. (units with EC motors operating at 50 Hz will not see a reduction in performance due to the electronic control of the motor)

\*\* Room Area Minimum calculated using Electric Drainpan and Line Length from Safety Shut-off Valve (SSOV) to the Unit Cooler. For Applications requiring Hot Gas Drainpan or other line lengths, please contact Heatcraft Representative for Room Area Minimum re-calculation

# A1 PERFORMANCE DATA

## Application Capacity: Medium Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 63 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/25°F SST	6°C TD/-4°F SST	10°F TD/25°F SST	6°C TD/-4°F SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	4,000	1,200	4,500	1,300	1	685	1,164
6	HEL0045*±6H^A	GLC040 GLC047	5,400	1,550	6,100	1,750	1	641	1,088
6	HEL0065*±6H^A	GLC065	7,450	2,150	8,300	2,400	2	1,371	2,329
6	HEL0080*±6H^A	GLC075	8,650	2,500	9,650	2,800	2	1,371	2,329
6	HEL0100*±6H^A	GLC090	10,350	3,000	11,400	3,300	2	1,281	2,176
6	HEL0130*±6H^A	GLC120	13,800	4,000	15,500	4,500	3	2,056	3,493
6	HEL0155*±6H^A	GLC140	16,100	4,650	18,400	5,300	3	1,922	3,265
6	HEL0170*±6H^A	GLC160	18,400	5,300	20,600	5,950	4	2,741	4,658
6	HEL0205*±6H^A	GLC180	20,700	6,000	23,100	6,650	4	2,562	4,353
6	HEL0240*±6H^A	GLC200	23,000	6,650	25,750	7,450	5	3,203	5,441
6	HEL0255*±6H^A	GLC240	27,600	7,950	30,950	8,950	6	4,112	6,986
6	HEL0310*±6H^A	GLC280	32,200	9,300	36,100	10,400	6	3,843	6,529
4	HEL0045*±4H^A	GLC041	4,700	1,400	5,200	1,500	1	667	1,132
4	HEL0070*±4H^A	GLC068	7,800	2,250	8,500	2,450	2	1,425	2,422
4	HEL0090*±4H^A	GLC080	9,200	2,650	10,100	2,900	2	1,332	2,263
4	HEL0135*±4H^A	GLC102	11,750	3,400	13,050	3,800	3	1,998	3,395
4	HEL0180*±4H^A	GLC136	15,650	4,500	17,650	5,100	4	2,664	4,527
4	HEL0220*±4H^A	GLC170	19,550	5,650	21,850	6,300	5	3,331	5,659
4	HEL0275*±4H^A	GLC204 GLC235	27,000	7,800	29,800	8,600	6	3,997	6,790

### Notes:

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# A1 PERFORMANCE DATA

## Application Capacity: Medium Temperature Hot Gas Defrost- 60 Hz

Please consult AWEF table on page 63 to confirm model meets DOE minimum AWEF

Please refer to Table 1: Capacity Correction Factors (page 6) if using Saturated Suction Temperatures different than listed in the information below

FPI	New Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data		
			Application Capacity <sup>1</sup>		Application Capacity <sup>1</sup>				
			10°F TD/25°F SST	6°C TD/-4°F SST	10°F TD/25°F SST	6°C TD/-4°F SST	No. of Fans	CFM	m <sup>3</sup> H
			BTUH	Watts	BTUH	Watts			
6	HEL0040*±6H^A	GLC035 GLC040	4,500	1,300	-	-	1	685	1,164
6	HEL0045*±6H^A	GLC040 GLC047	6,100	1,750	-	-	1	641	1,088
6	HEL0065*±6H^A	GLC065	8,300	2,400	-	-	2	1,371	2,329
6	HEL0080*±6H^A	GLC075	9,650	2,800	-	-	2	1,371	2,329
6	HEL0100*±6H^A	GLC090	11,400	3,300	-	-	2	1,281	2,176
6	HEL0130*±6H^A	GLC120	15,500	4,500	-	-	3	2,056	3,493
6	HEL0155*±6H^A	GLC140	18,400	5,300	-	-	3	1,922	3,265
6	HEL0170*±6H^A	GLC160	20,600	5,950	-	-	4	2,741	4,658
6	HEL0205*±6H^A	GLC180	23,100	6,650	-	-	4	2,562	4,353
6	HEL0240*±6H^A	GLC200	25,750	7,450	-	-	5	3,203	5,441
6	HEL0255*±6H^A	GLC240	30,950	8,950	-	-	6	4,112	6,986
6	HEL0310*±6H^A	GLC280	36,100	10,400	-	-	6	3,843	6,529
4	HEL0045*±4H^A	GLC041	5,200	1,500	-	-	1	667	1,132
4	HEL0070*±4H^A	GLC068	8,500	2,450	-	-	2	1,425	2,422
4	HEL0090*±4H^A	GLC080	10,100	2,900	-	-	2	1,332	2,263
4	HEL0135*±4H^A	GLC102	13,050	3,800	-	-	3	1,998	3,395
4	HEL0180*±4H^A	GLC136	17,650	5,100	-	-	4	2,664	4,527
4	HEL0220*±4H^A	GLC170	21,850	6,300	-	-	5	3,331	5,659
4	HEL0275*±4H^A	GLC204 GLC235	29,800	8,600	-	-	6	3,997	6,790

**Notes:**

<sup>1</sup> = 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](http://www.regulations.doe.gov)

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

Net Capacity is available upon request

± = Y/S (see Nomenclature details)

# SPECIFICATIONS

## Hot Gas Defrost- 60 Hz

FPI	New Model	HP	2-Speed EC Motor (Totally Enclosed)				Drain Pan Heaters			
			115/1/60				Watts	115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD		Total Amps		
6	HEL0040*±6HMA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
6	HEL0045*±6HMA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
6	HEL0065*±6HMA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0080*±6HMA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0100*±6HMA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0130*±6HMA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
6	HEL0155*±6HMA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
6	HEL0170*±6HMA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
6	HEL0205*±6HMA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
6	HEL0240*±6HMA	1/20	4.5	275	4.7	20	750	6.5	3.3	1.6
6	HEL0255*±6HMA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0
6	HEL0310*±6HMA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0
4	HEL0045*±4HMA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
4	HEL0070*±4HMA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
4	HEL0090*±4HMA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
4	HEL0135*±4HMA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
4	HEL0180*±4HMA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
4	HEL0220*±4HMA	1/20	4.5	275	4.7	20	750	6.5	3.3	1.6
4	HEL0275*±4HMA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0

FPI	New Model	HP	2-Speed EC Motor (Totally Enclosed)				Drain Pan Heaters			
			208-230/1/60				Watts	115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD		Total Amps		
6	HEL0040*±6HMA	1/20	0.5	55	0.6	15	150	1.3	0.7	0.3
6	HEL0045*±6HMA	1/20	0.5	55	0.6	15	150	1.3	0.7	0.3
6	HEL0065*±6HMA	1/20	1.0	110	1.1	15	300	2.6	1.3	0.7
6	HEL0080*±6HMA	1/20	1.0	110	1.1	15	300	2.6	1.3	0.7
6	HEL0100*±6HMA	1/20	1.0	110	1.1	15	300	2.6	1.3	0.7
6	HEL0130*±6HMA	1/20	1.4	165	1.6	15	450	3.9	2.0	1.0
6	HEL0155*±6HMA	1/20	1.4	165	1.6	15	450	3.9	2.0	1.0
6	HEL0170*±6HMA	1/20	1.9	220	2.1	15	600	5.2	2.6	1.3
6	HEL0205*±6HMA	1/20	1.9	220	2.1	15	600	5.2	2.6	1.3
6	HEL0240*±6HMA	1/20	2.4	275	2.6	15	750	6.5	3.3	1.6
6	HEL0255*±6HMA	1/20	2.9	330	3.1	15	900	7.8	3.9	2.0
6	HEL0310*±6HMA	1/20	2.9	330	3.1	15	900	7.8	3.9	2.0
4	HEL0045*±4HMA	1/20	0.5	55	0.6	15	150	1.3	0.7	0.3
4	HEL0070*±4HMA	1/20	1.0	110	1.1	15	300	2.6	1.3	0.7
4	HEL0090*±4HMA	1/20	1.0	110	1.1	15	300	2.6	1.3	0.7
4	HEL0135*±4HMA	1/20	1.4	165	1.6	15	450	3.9	2.0	1.0
4	HEL0180*±4HMA	1/20	1.9	220	2.1	15	600	5.2	2.6	1.3
4	HEL0220*±4HMA	1/20	2.4	275	2.6	15	750	6.5	3.3	1.6
4	HEL0275*±4HMA	1/20	2.9	330	3.1	15	900	7.8	3.9	2.0

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

Hot Gas Defrost- 60 Hz

FPI	New Model	HP	1-Speed EC Motor (Totally Enclosed)				Watt	Drain Pan Heaters		
			115/1/60					115/1/60	230/1/60	460/1/60
			Amp	Watt	MCA	MOPD				
6	HEL0040*±6HEA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
6	HEL0045*±6HEA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
6	HEL0065*±6HEA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0080*±6HEA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0100*±6HEA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
6	HEL0130*±6HEA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
6	HEL0155*±6HEA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
6	HEL0170*±6HEA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
6	HEL0205*±6HEA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
6	HEL0240*±6HEA	1/20	4.5	270	4.7	20	750	6.5	3.3	1.6
6	HEL0255*±6HEA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0
6	HEL0310*±6HEA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0
4	HEL0045*±4HEA	1/20	0.9	55	1.1	20	150	1.3	0.7	0.3
4	HEL0070*±4HEA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
4	HEL0090*±4HEA	1/20	1.8	110	2.0	20	300	2.6	1.3	0.7
4	HEL0135*±4HEA	1/20	2.7	165	2.9	20	450	3.9	2.0	1.0
4	HEL0180*±4HEA	1/20	3.6	220	3.8	20	600	5.2	2.6	1.3
4	HEL0220*±4HEA	1/20	4.5	275	4.7	20	750	6.5	3.3	1.6
4	HEL0275*±4HEA	1/20	5.4	330	5.6	20	900	7.8	3.9	2.0

FPI	New Model	HP	1-Speed EC Motor (Totally Enclosed)				Watts	Drain Pan Heaters		
			208-230/1/60					115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD				
6	HEL0040*±6HEA	1/20	0.5	59	0.6	15	150	1.3	0.7	0.3
6	HEL0045*±6HEA	1/20	0.5	59	0.6	15	150	1.3	0.7	0.3
6	HEL0065*±6HEA	1/20	1.0	118	1.1	15	300	2.6	1.3	0.7
6	HEL0080*±6HEA	1/20	1.0	118	1.1	15	300	2.6	1.3	0.7
6	HEL0100*±6HEA	1/20	1.0	118	1.1	15	300	2.6	1.3	0.7
6	HEL0130*±6HEA	1/20	1.5	177	1.6	15	450	3.9	2.0	1.0
6	HEL0155*±6HEA	1/20	1.5	177	1.6	15	450	3.9	2.0	1.0
6	HEL0170*±6HEA	1/20	2.0	236	2.1	15	600	5.2	2.6	1.3
6	HEL0205*±6HEA	1/20	2.0	236	2.1	15	600	5.2	2.6	1.3
6	HEL0240*±6HEA	1/20	2.5	295	2.6	15	750	6.5	3.3	1.6
6	HEL0255*±6HEA	1/20	3.0	354	3.1	15	900	7.8	3.9	2.0
6	HEL0310*±6HEA	1/20	3.0	354	3.1	15	900	7.8	3.9	2.0
4	HEL0045*±4HEA	1/20	0.5	59	0.6	15	150	1.3	0.7	0.3
4	HEL0070*±4HEA	1/20	1.0	118	1.1	15	300	2.6	1.3	0.7
4	HEL0090*±4HEA	1/20	1.0	118	1.1	15	300	2.6	1.3	0.7
4	HEL0135*±4HEA	1/20	1.5	177	1.6	15	450	3.9	2.0	1.0
4	HEL0180*±4HEA	1/20	2.0	236	2.1	15	600	5.2	2.6	1.3
4	HEL0220*±4HEA	1/20	2.5	295	2.6	15	750	6.5	3.3	1.6
4	HEL0275*±4HEA	1/20	3.0	354	3.1	15	900	7.8	3.9	2.0

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Hot Gas Defrost- 60 Hz

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Watts	Drain Pan Heaters		
			115/1/60					115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD				
6	HEL0040*±6HCA	1/20	1.0	82	1.3	20	150	1.3	0.7	0.3
6	HEL0045*±6HCA	1/20	1.0	82	1.3	20	150	1.3	0.7	0.3
6	HEL0065*±6HCA	1/20	2.0	164	2.3	20	300	2.6	1.3	0.7
6	HEL0080*±6HCA	1/20	2.0	164	2.3	20	300	2.6	1.3	0.7
6	HEL0100*±6HCA	1/20	2.0	164	2.3	20	300	2.6	1.3	0.7
6	HEL0130*±6HCA	1/20	3.0	246	3.3	20	450	3.9	2.0	1.0
6	HEL0155*±6HCA	1/20	3.0	246	3.3	20	450	3.9	2.0	1.0
6	HEL0170*±6HCA	1/20	4.0	328	4.3	20	600	5.2	2.6	1.3
6	HEL0205*±6HCA	1/20	4.0	328	4.3	20	600	5.2	2.6	1.3
6	HEL0240*±6HCA	1/20	5.0	410	5.3	20	750	6.5	3.3	1.6
6	HEL0255*±6HCA	1/20	6.0	492	6.3	20	900	7.8	3.9	2.0
6	HEL0310*±6HCA	1/20	6.0	492	6.3	20	900	7.8	3.9	2.0
4	HEL0045*±4HCA	1/20	1.0	82	1.3	20	150	1.3	0.7	0.3
4	HEL0070*±4HCA	1/20	2.0	164	2.3	20	300	2.6	1.3	0.7
4	HEL0090*±4HCA	1/20	2.0	164	2.3	20	300	2.6	1.3	0.7
4	HEL0135*±4HCA	1/20	3.0	246	3.3	20	450	3.9	2.0	1.0
4	HEL0180*±4HCA	1/20	4.0	328	4.3	20	600	5.2	2.6	1.3
4	HEL0220*±4HCA	1/20	5.0	410	5.3	20	750	6.5	3.3	1.6
4	HEL0275*±4HCA	1/20	6.0	492	6.3	20	900	7.8	3.9	2.0

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Watts	Drain Pan Heaters		
			208-230/1/60					115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD				
6	HEL0040*±6HCA	1/20	0.5	91	0.6	15	150	1.3	0.7	0.3
6	HEL0045*±6HCA	1/20	0.5	91	0.6	15	150	1.3	0.7	0.3
6	HEL0065*±6HCA	1/20	1.0	182	1.1	15	300	2.6	1.3	0.7
6	HEL0080*±6HCA	1/20	1.0	182	1.1	15	300	2.6	1.3	0.7
6	HEL0100*±6HCA	1/20	1.0	182	1.1	15	300	2.6	1.3	0.7
6	HEL0130*±6HCA	1/20	1.5	273	1.6	15	450	3.9	2.0	1.0
6	HEL0155*±6HCA	1/20	1.5	273	1.6	15	450	3.9	2.0	1.0
6	HEL0170*±6HCA	1/20	2.0	364	2.1	15	600	5.2	2.6	1.3
6	HEL0205*±6HCA	1/20	2.0	364	2.1	15	600	5.2	2.6	1.3
6	HEL0240*±6HCA	1/20	2.5	455	2.6	15	750	6.5	3.3	1.6
6	HEL0255*±6HCA	1/20	3.0	546	3.1	15	900	7.8	3.9	2.0
6	HEL0310*±6HCA	1/20	3.0	546	3.1	15	900	7.8	3.9	2.0
4	HEL0045*±4HCA	1/20	0.5	91	0.6	15	150	1.3	0.7	0.3
4	HEL0070*±4HCA	1/20	1.0	182	1.1	15	300	2.6	1.3	0.7
4	HEL0090*±4HCA	1/20	1.0	182	1.1	15	300	2.6	1.3	0.7
4	HEL0135*±4HCA	1/20	1.5	273	1.6	15	450	3.9	2.0	1.0
4	HEL0180*±4HCA	1/20	2.0	364	2.1	15	600	5.2	2.6	1.3
4	HEL0220*±4HCA	1/20	2.5	455	2.6	15	750	6.5	3.3	1.6
4	HEL0275*±4HCA	1/20	3.0	546	3.1	15	900	7.8	3.9	2.0

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

Hot Gas Defrost- 60 Hz

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Drain Pan Heaters			
			460/1/60				Watts	115/1/60	230/1/60	460/1/60
			Amps	Watts	MCA	MOPD		Total Amps		
6	HEL0040*±6HCA	1/20	0.4	117	0.5	15	150	1.3	0.7	0.3
6	HEL0045*±6HCA	1/20	0.4	117	0.5	15	150	1.3	0.7	0.3
6	HEL0065*±6HCA	1/20	0.8	234	0.9	15	300	2.6	1.3	0.7
6	HEL0080*±6HCA	1/20	0.8	234	0.9	15	300	2.6	1.3	0.7
6	HEL0100*±6HCA	1/20	0.8	234	0.9	15	300	2.6	1.3	0.7
6	HEL0130*±6HCA	1/20	1.2	351	1.3	15	450	3.9	2.0	1.0
6	HEL0155*±6HCA	1/20	1.2	351	1.3	15	450	3.9	2.0	1.0
6	HEL0170*±6HCA	1/20	1.6	468	1.7	15	600	5.2	2.6	1.3
6	HEL0205*±6HCA	1/20	1.6	468	1.7	15	600	5.2	2.6	1.3
6	HEL0240*±6HCA	1/20	2.0	585	2.1	15	750	6.5	3.3	1.6
6	HEL0255*±6HCA	1/20	2.4	702	2.5	15	900	7.8	3.9	2.0
6	HEL0310*±6HCA	1/20	2.4	702	2.5	15	900	7.8	3.9	2.0
4	HEL0045*±4HCA	1/20	0.4	117	0.5	15	150	1.3	0.7	0.3
4	HEL0070*±4HCA	1/20	0.8	234	0.9	15	300	2.6	1.3	0.7
4	HEL0090*±4HCA	1/20	0.8	234	0.9	15	300	2.6	1.3	0.7
4	HEL0135*±4HCA	1/20	1.2	351	1.3	15	450	3.9	2.0	1.0
4	HEL0180*±4HCA	1/20	1.6	468	1.7	15	600	5.2	2.6	1.3
4	HEL0220*±4HCA	1/20	2.0	585	2.1	15	750	6.5	3.3	1.6
4	HEL0275*±4HCA	1/20	2.4	702	2.5	15	900	7.8	3.9	2.0

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

## Hot Gas Defrost- 50 Hz

FPI	New Model	HP	2-Speed EC Motor (Totally Enclosed)				Drain Pan Heaters	
			220/1/50				Watts	220/1/50
			Amps	Watts	MCA	MOPD		Total Amps
6	HEL0040*±6HMA	1/20	0.5	55	0.6	15	135	0.6
6	HEL0045*±6HMA	1/20	0.5	55	0.6	15	135	0.6
6	HEL0065*±6HMA	1/20	1.0	110	1.1	15	275	1.2
6	HEL0080*±6HMA	1/20	1.0	110	1.1	15	275	1.2
6	HEL0100*±6HMA	1/20	1.0	110	1.1	15	275	1.2
6	HEL0130*±6HMA	1/20	1.5	165	1.6	15	410	1.9
6	HEL0155*±6HMA	1/20	1.5	165	1.6	15	410	1.9
6	HEL0170*±6HMA	1/20	2.0	220	2.1	15	550	2.5
6	HEL0205*±6HMA	1/20	2.0	220	2.1	15	550	2.5
6	HEL0240*±6HMA	1/20	2.5	275	2.6	15	690	3.1
6	HEL0255*±6HMA	1/20	3.0	330	3.1	15	825	3.7
6	HEL0310*±6HMA	1/20	3.0	330	3.1	15	825	3.7
4	HEL0045*±4HMA	1/20	0.5	55	0.6	15	135	0.6
4	HEL0070*±4HMA	1/20	1.0	110	1.1	15	275	1.2
4	HEL0090*±4HMA	1/20	1.0	110	1.1	15	275	1.2
4	HEL0135*±4HMA	1/20	1.5	165	1.6	15	410	1.9
4	HEL0180*±4HMA	1/20	2.0	220	2.1	15	550	2.5
4	HEL0220*±4HMA	1/20	2.5	275	2.6	15	690	3.1
4	HEL0275*±4HMA	1/20	3.0	330	3.1	15	825	3.7

FPI	New Model	HP	1-Speed EC Motor (Totally Enclosed)				Drain Pan Heaters	
			220/1/50				Watts	220/1/50
			Amps	Watts	MCA	MOPD		Total Amps
6	HEL0040*±6HEA	1/20	0.5	59	0.6	15	135	0.6
6	HEL0045*±6HEA	1/20	0.5	59	0.6	15	135	0.6
6	HEL0065*±6HEA	1/20	1.0	118	1.1	15	275	1.2
6	HEL0080*±6HEA	1/20	1.0	118	1.1	15	275	1.2
6	HEL0100*±6HEA	1/20	1.0	118	1.1	15	275	1.2
6	HEL0130*±6HEA	1/20	1.5	177	1.6	15	410	1.9
6	HEL0155*±6HEA	1/20	1.5	177	1.6	15	410	1.9
6	HEL0170*±6HEA	1/20	2.0	236	2.1	15	550	2.5
6	HEL0205*±6HEA	1/20	2.0	236	2.1	15	550	2.5
6	HEL0240*±6HEA	1/20	2.5	295	2.6	15	690	3.1
6	HEL0255*±6HEA	1/20	3.0	354	3.1	15	825	3.7
6	HEL0310*±6HEA	1/20	3.0	354	3.1	15	825	3.7
4	HEL0045*±4HEA	1/20	0.5	59	0.6	15	135	0.6
4	HEL0070*±4HEA	1/20	1.0	118	1.1	15	275	1.2
4	HEL0090*±4HEA	1/20	1.0	118	1.1	15	275	1.2
4	HEL0135*±4HEA	1/20	1.5	177	1.6	15	410	1.9
4	HEL0180*±4HEA	1/20	2.0	236	2.1	15	550	2.5
4	HEL0220*±4HEA	1/20	2.5	295	2.6	15	690	3.1
4	HEL0275*±4HEA	1/20	3.0	354	3.1	15	825	3.7

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# SPECIFICATIONS

Hot Gas Defrost- 50 Hz

FPI	New Model	HP	PSC Motor (Totally Enclosed)				Drain Pan Heaters	
			220/1/50				Watts	220/1/50
			Amps	Watts	MCA	MOPD		Total Amps
6	HEL0040*±6HCA	1/20	0.5	65	0.6	15	135	0.6
6	HEL0045*±6HCA	1/20	0.5	65	0.6	15	135	0.6
6	HEL0065*±6HCA	1/20	1.0	130	1.1	15	275	1.2
6	HEL0080*±6HCA	1/20	1.0	130	1.1	15	275	1.2
6	HEL0100*±6HCA	1/20	1.0	130	1.1	15	275	1.2
6	HEL0130*±6HCA	1/20	1.5	195	1.6	15	410	1.9
6	HEL0155*±6HCA	1/20	1.5	195	1.6	15	410	1.9
6	HEL0170*±6HCA	1/20	2.0	260	2.1	15	550	2.5
6	HEL0205*±6HCA	1/20	2.0	260	2.1	15	550	2.5
6	HEL0240*±6HCA	1/20	2.5	325	2.6	15	690	3.1
6	HEL0255*±6HCA	1/20	3.0	390	3.1	15	825	3.7
6	HEL0310*±6HCA	1/20	3.0	390	3.1	15	825	3.7
4	HEL0045*±4HCA	1/20	0.5	65	0.6	15	135	0.6
4	HEL0070*±4HCA	1/20	1.0	130	1.1	15	275	1.2
4	HEL0090*±4HCA	1/20	1.0	130	1.1	15	275	1.2
4	HEL0135*±4HCA	1/20	1.5	195	1.6	15	410	1.9
4	HEL0180*±4HCA	1/20	2.0	260	2.1	15	550	2.5
4	HEL0220*±4HCA	1/20	2.5	325	2.6	15	690	3.1
4	HEL0275*±4HCA	1/20	3.0	390	3.1	15	825	3.7

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# PHYSICAL DATA

## Air Defrost

FPI	Model	No. of Fans	Coil Inlet OD	Suction OD	Equalizer OD	Drain MPT	Approx. Net Weight	
							lb	kg
6	HEL0045*±6A^A	1	1/2	1/2	1/4	3/4	33	15
6	HEL0055*±6A^A	1	1/2	5/8	1/4	3/4	36	16
6	HEL0060*±6A^A	1	1/2	5/8	1/4	3/4	36	16
6	HEL0095*±6A^A	2	1/2	5/8	1/4	3/4	51	23
6	HEL0105*±6A^A	2	1/2	5/8	1/4	3/4	52	24
6	HEL0115*±6A^A	2	1/2	7/8	1/4	3/4	56	26
6	HEL0125*±6A^A	2	1/2	7/8	1/4	3/4	56	26
6	HEL0155*±6A^A	3	1/2	7/8	1/4	3/4	67	30
6	HEL0190*±6A^A	3	1/2	7/8	1/4	3/4	73	33
6	HEL0250*±6A^A	4	1/2	7/8	1/4	3/4	94	43
6	HEL0295*±6A^A	5	1/2	7/8	1/4	3/4	115	52
6	HEL0350*±6A^A	6	1/2	1-1/8	1/4	3/4	133	60
6	HEL0380*±6A^A	6	1/2	1-1/8	1/4	3/4	137	62

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

± = Refrigerant Designator

## PHYSICAL DATA

### Air Defrost (CO<sub>2</sub> DX)

Model	No. of Fans	Coil Inlet <sup>2</sup>	Suction OD <sup>2</sup>	Drain MPT	Approx. Net Weight	
					lb	kg
HEL0045*C6A^A	1	3/8	3/8	3/4	33	15
HEL0055*C6A^A	1	3/8	3/8	3/4	36	16
HEL0060*C6A^A	1	3/8	3/8	3/4	36	16
HEL0095*C6A^A	2	3/8	3/8	3/4	51	23
HEL0105*C6A^A	2	3/8	3/8	3/4	52	24
HEL0115*C6A^A	2	3/8	3/8	3/4	56	26
HEL0125*C6A^A	2	3/8	3/8	3/4	56	26
HEL0155*C6A^A	3	3/8	3/8	3/4	67	30
HEL0190*C6A^A	3	3/8	3/8	3/4	73	33
HEL0250*C6A^A	4	3/8	1/2	3/4	94	43
HEL0295*C6A^A	5	3/8	1/2	3/4	115	52
HEL0350*C6A^A	6	3/8	1/2	3/4	133	60
HEL0380*C6A^A	6	1/2	5/8	3/4	137	62

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

<sup>2</sup> = Connection sizes may vary, if TD is lesser or greater than 10°F

# PHYSICAL DATA

## Electric Defrost

FPI	Model	No. of Fans	Coil Inlet OD	Suction OD	Equalizer OD	Drain MPT	Approx. Net Weight	
							lb	kg
6	HEL0040*±6E^A	1	1/2	5/8	1/4	3/4	36	16
6	HEL0045*±6E^A	1	1/2	5/8	1/4	3/4	38	17
6	HEL0065*±6E^A	2	1/2	5/8	1/4	3/4	54	24
6	HEL0080*±6E^A	2	1/2	5/8	1/4	3/4	54	24
6	HEL0100*±6E^A	2	1/2	7/8	1/4	3/4	59	27
6	HEL0130*±6E^A	3	1/2	7/8	1/4	3/4	71	32
6	HEL0155*±6E^A	3	1/2	1-1/8	1/4	3/4	78	35
6	HEL0170*±6E^A	4	1/2	7/8	1/4	3/4	91	41
6	HEL0205*±6E^A	4	1/2	1-1/8	1/4	3/4	100	45
6	HEL0240*±6E^A	5	1/2	1-1/8	1/4	3/4	120	54
6	HEL0255*±6E^A	6	1/2	1-1/8	1/4	3/4	134	61
6	HEL0310*±6E^A	6	1/2	1-1/8	1/4	3/4	146	66
4	HEL0045*±4E^A	1	1/2	5/8	1/4	3/4	38	17
4	HEL0070*±4E^A	2	1/2	5/8	1/4	3/4	53	24
4	HEL0090*±4E^A	2	1/2	7/8	1/4	3/4	59	27
4	HEL0135*±4E^A	3	1/2	7/8	1/4	3/4	77	35
4	HEL0180*±4E^A	4	1/2	1-1/8	1/4	3/4	100	45
4	HEL0220*±4E^A	5	1/2	1-1/8	1/4	3/4	119	54
4	HEL0275*±4E^A	6	1/2	1-1/8	1/4	3/4	142	64

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

± = Refrigerant Designator

## PHYSICAL DATA

### Electric Defrost (CO<sub>2</sub> DX)

FPI	Model	No. of Fans	Coil Inlet <sup>2</sup>	Suction OD <sup>2</sup>	Drain MPT	Approx. Net Weight	
						lb	kg
6	HEL0040*C6E^A	1	3/8	3/8	3/4	36	16
6	HEL0045*C6E^A	1	3/8	3/8	3/4	38	17
6	HEL0065*C6E^A	2	3/8	3/8	3/4	54	24
6	HEL0080*C6E^A	2	3/8	1/2	3/4	54	24
6	HEL0100*C6E^A	2	3/8	1/2	3/4	59	27
6	HEL0130*C6E^A	3	3/8	1/2	3/4	71	32
6	HEL0155*C6E^A	3	3/8	1/2	3/4	78	35
6	HEL0170*C6E^A	4	3/8	1/2	3/4	91	41
6	HEL0205*C6E^A	4	3/8	1/2	3/4	100	45
6	HEL0240*C6E^A	5	3/8	5/8	3/4	120	54
6	HEL0255*C6E^A	6	3/8	5/8	3/4	134	61
6	HEL0310*C6E^A	6	3/8	5/8	3/4	146	66
4	HEL0045*C4E^A	1	3/8	3/8	3/4	38	17
4	HEL0070*C4E^A	2	3/8	3/8	3/4	53	24
4	HEL0090*C4E^A	2	3/8	1/2	3/4	59	27
4	HEL0135*C4E^A	3	3/8	1/2	3/4	77	35
4	HEL0180*C4E^A	4	3/8	1/2	3/4	100	45
4	HEL0220*C4E^A	5	3/8	1/2	3/4	119	54
4	HEL0275*C4E^A	6	3/8	5/8	3/4	142	64

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

<sup>2</sup> = Connection sizes may vary, if TD is lesser or greater than 10°F

# PHYSICAL DATA

## Hot Gas Defrost

FPI	Model	No. of Fans	Coil Inlet OD	Suction OD	Equalizer OD	Drain MPT	Side Port OD	Hot Gas Pan Connection OD	Approx. Net Weight	
									lb	kg
6	HELO040*±6H^A	1	1/2	5/8	1/4	3/4	1/2	5/8	38	17
6	HELO045*±6H^A	1	1/2	5/8	1/4	3/4	1/2	5/8	40	18
6	HELO065*±6H^A	2	1/2	5/8	1/4	3/4	1/2	5/8	56	25
6	HELO080*±6H^A	2	1/2	5/8	1/4	3/4	1/2	5/8	56	25
6	HELO100*±6H^A	2	1/2	7/8	1/4	3/4	1/2	5/8	61	27
6	HELO130*±6H^A	3	1/2	7/8	1/4	3/4	1/2	5/8	73	33
6	HELO155*±6H^A	3	1/2	1-1/8	1/4	3/4	1/2	5/8	80	36
6	HELO170*±6H^A	4	1/2	7/8	1/4	3/4	1/2	5/8	93	42
6	HELO205*±6H^A	4	1/2	1-1/8	1/4	3/4	1/2	5/8	102	46
6	HELO240*±6H^A	5	1/2	1-1/8	1/4	3/4	1/2	5/8	122	55
6	HELO255*±6H^A	6	1/2	1-1/8	1/4	3/4	1/2	5/8	136	62
6	HELO310*±6H^A	6	1/2	1-1/8	1/4	3/4	1/2	5/8	148	67
4	HELO045*±4H^A	1	1/2	5/8	1/4	3/4	1/2	5/8	40	18
4	HELO070*±4H^A	2	1/2	5/8	1/4	3/4	1/2	5/8	55	25
4	HELO090*±4H^A	2	1/2	7/8	1/4	3/4	1/2	5/8	61	28
4	HELO135*±4H^A	3	1/2	7/8	1/4	3/4	1/2	5/8	79	36
4	HELO180*±4H^A	4	1/2	1-1/8	1/4	3/4	1/2	5/8	102	46
4	HELO220*±4H^A	5	1/2	1-1/8	1/4	3/4	1/2	5/8	121	55
4	HELO275*±4H^A	6	1/2	1-1/8	1/4	3/4	1/2	5/8	144	65

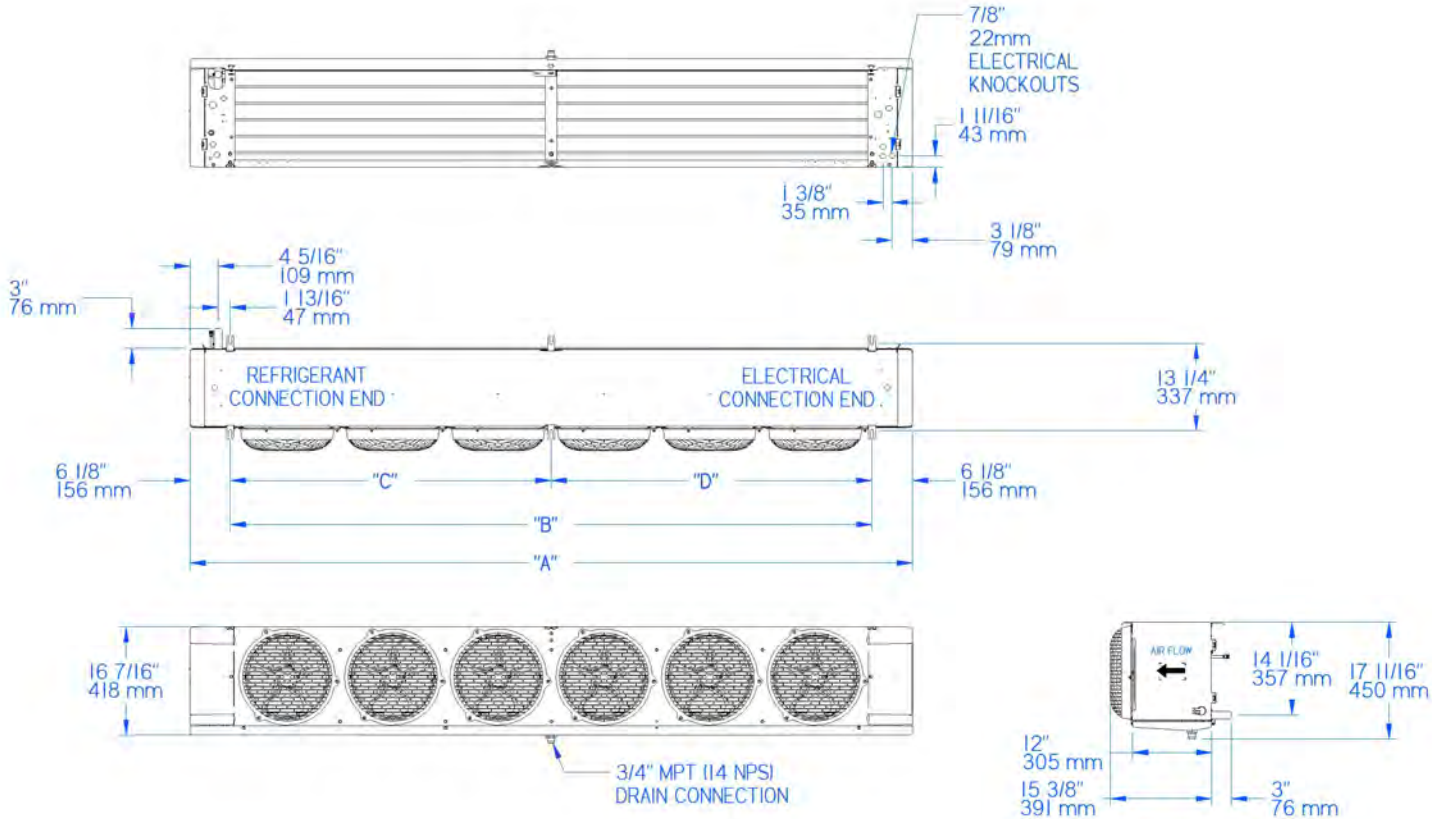
**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

± = Refrigerant Designator

# DIMENSIONAL DRAWINGS



No. of Fans	A		B		C		D	
	in.	mm	in.	mm	in.	mm	in.	mm
1	29.5	749	17.25	438	-	-	-	-
2	45.5	1,156	33.25	845	-	-	-	-
3	61.5	1,562	49.25	1,251	-	-	-	-
4	77.5	1,969	65.25	1,657	-	-	-	-
5	93.5	2,375	81.25	2,064	48.63	1,235	32.63	829
6	109.5	2,781	97.25	2,470	48.63	1,235	48.63	1,235

**Note:**  
Hanger brackets will accept 3/8" / 9.5 mm hanger rods

# DOE Rated AWEF

## AWEF DATA

### Air Defrost/2-Speed EC Motors

FPI	Model	Cooler							
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	CO <sub>2</sub> DX
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF
6	HEL0045*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0055*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0060*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0095*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0105*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0115*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0125*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0155*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0190*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0250*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0295*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0350*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00
6	HEL0380*±6AMA	9.00	9.00	9.00	9.00	9.00	9.00	9.00	9.00

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator

# DOE Rated AWEF

## AWEF DATA

Electric Defrost/1-Speed EC Motors

FPI	Model	Freezer							CO <sub>2</sub> DX
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	
6	HEL0040*±6EEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0045*±6EEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0065*±6EEA	4.00	4.03	4.02	-	4.00	4.03	4.02	4.00
6	HEL0080*±6EEA	4.03	4.03	4.03	-	4.03	4.03	4.03	4.03
6	HEL0100*±6EEA	4.00	4.06	4.06	-	4.00	4.06	4.06	4.00
6	HEL0130*±6EEA	4.09	4.09	4.09	-	4.09	4.09	4.09	4.09
6	HEL0155*±6EEA	4.10	4.10	4.10	-	4.10	4.10	4.10	4.10
6	HEL0170*±6EEA	4.14	4.14	4.14	-	4.14	4.14	4.14	4.14
6	HEL0205*±6EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0240*±6EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0255*±6EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0310*±6EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0045*±4EEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
4	HEL0070*±4EEA	3.99	3.99	3.99	-	3.99	-	3.99	-
4	HEL0090*±4EEA	4.02	4.02	4.02	-	4.02	4.02	4.02	4.02
4	HEL0135*±4EEA	4.07	4.07	4.07	-	4.07	4.07	4.07	4.07
4	HEL0180*±4EEA	4.12	4.12	4.12	-	4.12	4.12	4.12	4.12
4	HEL0220*±4EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0275*±4EEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator

# DOE Rated AWEF

## AWEF DATA

### Electric Defrost/2-Speed EC Motors

FPI	Model	Cooler							CO <sub>2</sub> DX
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	
6	HEL0040*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0045*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0065*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0080*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0100*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0130*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0155*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0170*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0205*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0240*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0255*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0310*±6EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0045*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0070*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	-
4	HEL0090*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0135*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0180*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0220*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0275*±4EMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00

FPI	Model	Freezer							CO <sub>2</sub> DX
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	
6	HEL0040*±6EMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0045*±6EMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0065*±6EMA	4.00	4.03	4.02	-	4.00	4.03	4.02	4.00
6	HEL0080*±6EMA	4.00	4.00	4.00	-	4.00	4.00	4.00	4.00
6	HEL0100*±6EMA	4.03	4.03	4.03	-	4.03	4.03	4.03	4.03
6	HEL0130*±6EMA	4.06	4.06	4.06	-	4.06	4.06	4.06	4.06
6	HEL0155*±6EMA	4.09	4.09	4.09	-	4.09	4.09	4.09	4.09
6	HEL0170*±6EMA	4.10	4.10	4.10	-	4.10	4.10	4.10	4.10
6	HEL0205*±6EMA	4.14	4.14	4.14	-	4.14	4.14	4.14	4.14
6	HEL0240*±6EMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0255*±6EMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0310*±6EMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0045*±4EMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
4	HEL0070*±4EMA	3.99	3.99	3.99	-	3.99	3.99	3.99	-
4	HEL0090*±4EMA	4.02	4.02	4.02	-	4.02	4.02	4.02	4.02
4	HEL0135*±4EMA	4.07	4.07	4.07	-	4.07	4.07	4.07	4.07
4	HEL0180*±4EMA	4.12	4.12	4.12	-	4.12	4.12	4.12	4.12
4	HEL0220*±4EMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0275*±4EMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator

# DOE Rated AWEF

## AWEF DATA

Hot Gas Defrost/1-Speed EC Motors

FPI	Model	Freezer							
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	CO <sub>2</sub> DX
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF
6	HEL0040*±6HEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0045*±6HEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0065*±6HEA	4.00	4.03	4.02	-	4.00	4.03	4.02	4.00
6	HEL0080*±6HEA	4.03	4.03	4.03	-	4.03	4.03	4.03	4.00
6	HEL0100*±6HEA	4.06	4.06	4.06	-	4.06	4.06	4.06	4.03
6	HEL0130*±6HEA	4.09	4.09	4.09	-	4.09	4.09	4.09	4.06
6	HEL0155*±6HEA	4.10	4.10	4.10	-	4.10	4.10	4.10	4.09
6	HEL0170*±6HEA	4.14	4.14	4.14	-	4.14	4.14	4.14	4.10
6	HEL0205*±6HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.14
6	HEL0240*±6HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0255*±6HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0310*±6HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0045*±4HEA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
4	HEL0070*±4HEA	3.99	3.99	3.99	-	3.99	-	3.99	-
4	HEL0090*±4HEA	4.02	4.02	4.02	-	4.02	4.02	4.02	4.02
4	HEL0135*±4HEA	4.07	4.07	4.07	-	4.07	4.07	4.07	4.07
4	HEL0180*±4HEA	4.12	4.12	4.12	-	4.12	4.12	4.12	4.12
4	HEL0220*±4HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0275*±4HEA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

# DOE Rated AWEF

## AWEF DATA

### Hot Gas Defrost/2-Speed EC Motors

FPI	Model	Cooler							CO <sub>2</sub> DX
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	
6	HEL0040*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0045*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0065*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0080*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0100*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0130*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0155*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0170*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0205*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0240*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0255*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
6	HEL0310*±6HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0045*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0070*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	-
4	HEL0090*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0135*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0180*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0220*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00
4	HEL0275*±4HMA	9.00	9.00	9.00	-	9.00	9.00	9.00	9.00

FPI	Model	Freezer							CO <sub>2</sub>
		R-404A/ R-507A	R-448A/ R0449A	R-407A/ R-407F	R-407C	R454A	R454C	R455A	
		AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	AWEF	
6	HEL0040*±6HMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0045*±6HMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
6	HEL0065*±6HMA	4.00	4.03	4.02	-	4.00	4.03	4.02	4.00
6	HEL0080*±6HMA	4.00	4.00	4.00	-	4.00	4.00	4.00	4.00
6	HEL0100*±6HMA	4.03	4.03	4.03	-	4.03	4.03	4.03	4.03
6	HEL0130*±6HMA	4.06	4.06	4.06	-	4.06	4.06	4.06	4.06
6	HEL0155*±6HMA	4.09	4.09	4.09	-	4.09	4.09	4.09	4.09
6	HEL0170*±6HMA	4.10	4.10	4.10	-	4.10	4.10	4.10	4.10
6	HEL0205*±6HMA	4.14	4.14	4.14	-	4.14	4.14	4.14	4.14
6	HEL0240*±6HMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0255*±6HMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
6	HEL0310*±6HMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0045*±4HMA	3.96	3.96	3.96	-	3.96	3.96	3.96	3.96
4	HEL0070*±4HMA	3.99	3.99	3.99	-	3.99	3.99	3.99	-
4	HEL0090*±4HMA	4.02	4.02	4.02	-	4.02	4.02	4.02	4.02
4	HEL0135*±4HMA	4.07	4.07	4.07	-	4.07	4.07	4.07	4.07
4	HEL0180*±4HMA	4.12	4.12	4.12	-	4.12	4.12	4.12	4.12
4	HEL0220*±4HMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15
4	HEL0275*±4HMA	4.15	4.15	4.15	-	4.15	4.15	4.15	4.15

**Notes:**

\* = Electrical Code Designator (see Nomenclature details)

± = Refrigerant Designator (see Nomenclature details)

## HOT GAS REVERSE CYCLE KITS

Shipped Loose Accessories

FPI	Model	TXV Bypass and Liquid Line Piping Kit (Reverse Cycle)	TXV Liquid Line Piping Kit (Three Pipe or Rev Cycle w/o TXV Bypass)	Suction/Drain Pan Check Valve Piping Kit (Reverse Cycle)	Drain Pan Check Valve Piping Kit (Three Pipe)
		For TXV's SBF/SQE/BBI/EG	For TXV's SBF/SQE/BBI/EG		
6	HEL0040*S6H^A	50756301	50756302	50692204	50692302
6	HEL0045*S6H^A	50756301	50756302	50692204	50692302
6	HEL0065*S6H^A	50756301	50756302	50692204	50692302
6	HEL0080*S6H^A	50756301	50756302	50692204	50692302
6	HEL0100*S6H^A	50756301	50756302	50692225	50692302
6	HEL0130*S6H^A	50756301	50756302	50692225	50692302
6	HEL0155*S6H^A	50756301	50756302	50692206	50692302
6	HEL0170*S6H^A	50756301	50756302	50692205	50692302
6	HEL0205*S6H^A	50756301	50756302	50692206	50692302
6	HEL0240*S6H^A	50756301	50756302	50692206	50692302
6	HEL0255*S6H^A	50756301	50756302	50692206	50692302
6	HEL0310*S6H^A	50756301	50756302	50692206	50692302
4	HEL0045*S4H^A	50756301	50756302	50692204	50692302
4	HEL0070*S4H^A	50756301	50756302	50692204	50692302
4	HEL0090*S4H^A	50756301	50756302	50692205	50692302
4	HEL0135*S4H^A	50756301	50756302	50692205	50692302
4	HEL0180*S4H^A	50756301	50756302	50692206	50692302
4	HEL0220*S4H^A	50756301	50756302	50692206	50692302
4	HEL0275*S4H^A	50756301	50756302	50692206	50692302

## REVERSE CYCLE PIPING

### Reverse cycle defrost unit cooler operation

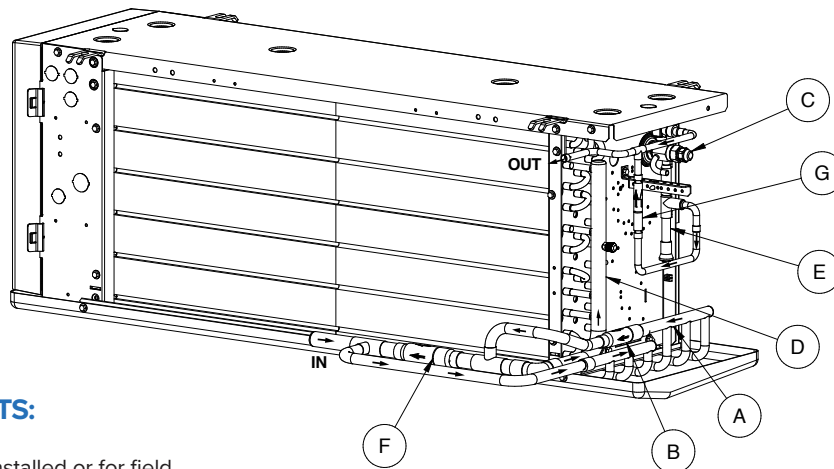
Reverse cycle defrost is a common method used in systems that include at least four unit coolers connected to a compressor rack. No more than 25% of the connected unit coolers are typically defrosted at the same time.

During reverse cycle, valving at the compressor rack diverts hot gas through the suction line to the defrosting unit cooler. See piping view in Figure 1. The suction line check valve directs the hot gas through the pan loop; heating the drain pan and preventing condensate from freezing during defrost. The hot gas exits the loop at the pan loop outlet header, passes through the drain pan check valve and enters the evaporator coil through the coil suction header. The hot refrigerant gas then flows through the defrosting coil, heating the finned surface and melting frost. As heat is transferred to the coil fins, hot refrigerant gas condenses to a liquid state. The refrigerant then exits the coil at the distributor side port, passes around the expansion valve through the bypass check valve and flows into the liquid refrigerant line. The liquid refrigerant then feeds other evaporators on the cooling cycle, evaporates, and returns to the compressor through their suction lines.

In some systems, electric drain pan heaters are used instead of a hot gas pan loop. Hot gas piping is simplified with the suction and drain pan check valves being eliminated. Electric drain pan heaters are energized during the defrost period, by a defrost control on the unit cooler or by a compressor rack controller.

## REVERSE CYCLE DEFROST PIPING KEY COMPONENTS (FIG. 1)

- A. Hot gas drain pan loop
- B. Drain pan check valve
- C. Expansion valve
- D. Suction header
- E. Distributor
- F. Suction check valve
- G. Expansion valve bypass check valve



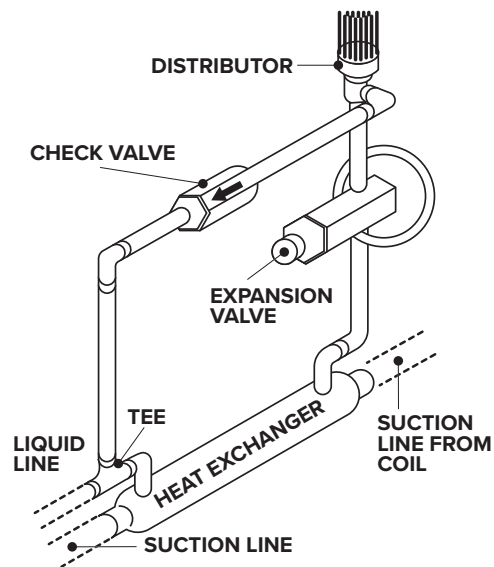
## REVERSE CYCLE DEFROST PIPING KITS:

**External check valve kit** (available factory-installed or for field installation) includes suction check valve, drain pan check valve and piping to connect to suction header and hot gas drain pan loop. This kit is only necessary when the unit cooler is equipped with a hot gas drain pan loop.

**Expansion valve bypass kit** (available factory-installed or for field installation) includes expansion valve bypass check valve and piping to connect to the distributor side port and liquid line piping. The factory-installed version includes the expansion valve.

## Use of external liquid/suction line heat exchanger with a reverse cycle system:

To increase the efficiency, higher performance and greater system protection, a heat exchanger may be beneficial to the system. In order to use a heat exchanger, the expansion valve bypass piping must be modified. See the piping view in Figure 2. The modification includes rerouting the pipe from the expansion valve bypass check valve to the inlet connection of the liquid line to the heat exchanger. A pipe needs to be routed from the liquid line outlet connection of the heat exchanger to the inlet connection of the thermostatic expansion valve.



**FIGURE 2. Typical Liquid Line Bypass Kit**  
(Shown assembled and modified for heat exchanger)

## Three-pipe defrost unit cooler operation

Three-pipe defrost systems are connected to either a condensing unit or a compressor rack. No more than 33% of the connected unit coolers are typically defrosted at the same time.

During defrost, hot gas is directed through dedicated refrigerant piping (third pipe) to the defrosting unit cooler. See piping view in Figure 3. The hot gas enters the drain pan loop; heating the drain pan and preventing condensate from freezing during defrost. The hot gas exits the loop at the pan loop outlet header, passes through the drain pan check valve and enters the evaporator coil through the distributor side port connection. The hot refrigerant gas then flows through the defrosting coil, heating the finned surface and melting frost. As heat is transferred to the coil fins, hot refrigerant gas condenses to a liquid state. The refrigerant then exits the coil at the suction header.

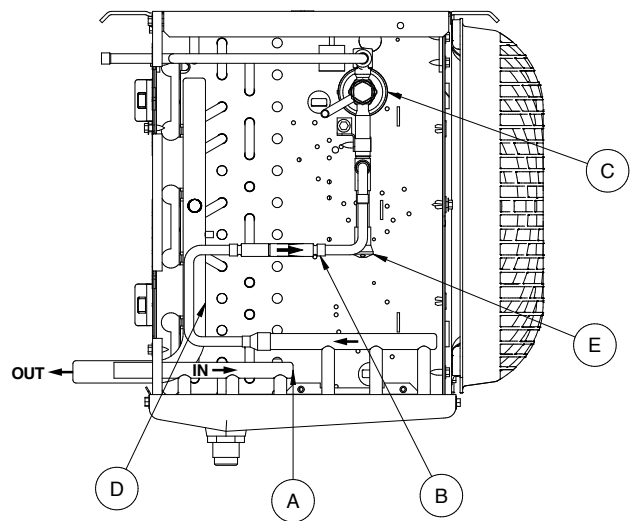
### Three-pipe defrost unit cooler operation (cont.)

In some systems, electric drain pan heaters are used instead of a hot gas pan loop. Hot gas piping is simplified with the drain pan check valve being eliminated. Electric drain pan heaters are energized during the defrost period, by a defrost control on the unit cooler or by a compressor rack controller.

In order to provide sufficient re-evaporation of the liquid vapor mixture and sufficient heat for defrost, no more than one-third of the system should be defrosted at one time. Some means of control in the 3-pipe hot gas system should be supplied to regulate the large amount of liquid returning to the compressor, refrigerant slugging can otherwise damage the compressor.

#### REVERSE CYCLE THREE-PIPE DEFROST PIPING KEY COMPONENTS (FIG. 3)

- A. Hot gas drain pan loop
- B. Drain pan check valve
- C. Expansion valve
- D. Suction header
- E. Distributor



#### THREE-PIPE DEFROST PIPING KIT:

**Three-pipe check valve kit** (available factory-installed or for field installation) includes drain pan check valve and piping to connect the distributor side port to the hot gas drain pan loop. This kit is only necessary when the unit cooler is equipped with a hot gas drain pan loop.

### Hot gas defrost controls:

Hot gas unit coolers are factory equipped with temperature control(s) that terminate the defrost cycle when the evaporator coil is clear of frost. After defrost, the control(s) keep the evaporator fans from re-energizing until the coil temperature is close to the freezing point.

#### STANDARD:

The standard control scheme includes an electromechanical defrost termination / fan delay control.

For reverse cycle defrost, the control sensing bulb is placed on the expansion valve bypass line, between the distributor side port and the expansion valve bypass check valve.

For three-pipe defrost, the control sensing bulb is placed on the suction header or suction header outlet connection.

#### OPTIONAL:

The optional control scheme includes an electromechanical defrost termination control and a separate bimetallic fan delay control. This scheme provides more options for the placement of the control sensing bulb as the defrost termination and fan delay sensing points are no longer combined.

The fan delay temperature is sensed on the evaporator coil endplate adjacent to the fins.

For reverse cycle defrost, the control sensing bulb is placed on the expansion valve bypass line or liquid line piping adjacent to the unit cooler.

For three-pipe defrost, the control sensing bulb is placed on the suction header or suction header outlet connection.

# REPLACEMENT PARTS

## Motor/Motor Mounts

Part #	Motor Type	Voltage	Motor Speeds	Motor Mount
25312501S / 25329001S	EC	115	1-SP / 2-SP	23108401*
25312601S / 25329101S	EC	208-230	2-SP	23108401*
25317701S	EC	208-230	1-SP	23108401
25309501S	PSC	115	1-SP	23108401
25309801S	PSC	208-230	1-SP	23108401
25309701S	PSC	460	1-SP	23106401

\* = Consult factory when replacing motor mounts for motors 25329001S / 23529101S

## Fan Blade

Part #	Description
5140C	Fan Blade 12" Std
5110E	Fan Blade 12" Reverse Air Flow

## Fan Guard

Part #	Description
37001601	Fan Guard Wire Blue
37001801	Fan Guard Molded Blue

## Cabinet Components

Part #	No. of Fans	Description	Defrost Type	Cabinet Aluminum	Application Notes
40594101	1	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595101	1	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596101	1	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only
40594201	2	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595201	2	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596201	2	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only
40594301	3	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595301	4	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596301	4	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only
40594401	4	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595401	4	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596401	4	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only
40594501	5	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595501	5	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596501	5	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only
40594601	6	Drain Pan	Air/Hot Gas	Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40595601	6	Drain Pan	Air/Hot Gas	White Painted Aluminum	Air, Hot Gas Models w/Drain Pan Loop
40596601	6	Drain Pan	Air/Hot Gas	Stainless Steel	Air Defrost Only

## REPLACEMENT PARTS

### Cabinet Components (cont.)

Part #	No. of Fans	Description	Defrost Type	Cabinet Aluminum	Application Notes
40594102	1	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595102	1	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40594202	2	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595202	2	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40594302	3	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595302	3	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40594402	4	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595402	4	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40594502	5	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595502	5	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40594602	6	Drain Pan	Electric/Hot Gas	Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40595602	6	Drain Pan	Electric/Hot Gas	White Painted Aluminum	Elec, Hot Gas Models w/Drain Pan Heater
40593703	1	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation
40593704	1	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593002	1	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
40593803	2	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation
40593804	2	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593102	2	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
40591503	3	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation
40591504	3	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593202	3	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
40591603	4	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation
40591604	4	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593302	4	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
40591703	5	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation
40591704	5	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593402	5	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
40591803	6	Insulated Outer Drain Pan Assy	All	Aluminum	Includes Outer Cover and Insulation

# REPLACEMENT PARTS

## Cabinet Components (cont.)

Part #	No. of Fans	Description	Defrost Type	Cabinet Aluminum	Application Notes
40591804	6	Insulated Outer Drain Pan Assy	All	White Painted Aluminum	Includes Outer Cover and Insulation
40593502	6	Insulated Outer Drain Pan Assy	All	Stainless Steel	Includes Outer Cover and Insulation
41032901	All	Access Panel RH (Elect) End	All	Aluminum/Stainless Steel	All w/Unpainted Cabinet
41032902	All	Access Panel RH (Elect) End	All	White Painted Aluminum	All w/White Cabinet
41032801	All	Access Panel LH (Refrig) End	All	Aluminum/Stainless Steel	Standard w/Unpainted Cabinet
41032802	All	Access Panel LH (Refrig) End	All	White Painted Aluminum	Standard w/White Cabinet
41032803	All	Access Panel LH (Refrig) End	Air/Electric	Aluminum/Stainless Steel	IntelliGen/QRC/Beacon II w/Unpainted Cabinet
41032804	All	Access Panel LH (Refrig) End	Air/Electric	White Painted Aluminum	IntelliGen/QRC/Beacon II w/White Cabinet
41038401	All	Access Panel LH (Refrig) End	Air/Electric	Aluminum	Glycol/CO <sub>2</sub> Overfeed Only
41038402	All	Access Panel LH (Refrig) End	Air/Electric	White Painted Aluminum	Glycol/CO <sub>2</sub> Overfeed Only
41038501	All	Access Panel LH (Refrig) End	Air/Electric	Stainless Steel	Glycol/CO <sub>2</sub> Overfeed Only
41038701	All	Access Panel RH (Elect) End	Air/Electric	Aluminum	Glycol/CO <sub>2</sub>
41038702	All	Access Panel RH (Elect) End	Air/Electric	White Painted Aluminum	Glycol/CO <sub>2</sub>
41038901	All	Access Panel RH (Elect) End	Air/Electric	Stainless Steel	Glycol/CO <sub>2</sub>

## Drain Pan Heaters

Part #	No. of Fans	Voltage	Wattage	Defrost Type	Application Notes
24753101	1	115	150	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753102	2	115	300	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753103	3	115	450	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753104	4	115	600	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753105	5	115	750	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753106	6	115	900	Hot Gas	Hot Gas Models w/Drain Pan Heater
24752501	1	230	150	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24752502	2	230	300	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24752503	3	230	450	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24752504	4	230	600	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24752505	5	230	750	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24752506	6	230	900	Electric /Hot Gas	Elec, Hot Gas Models w/Drain Pan Heater
24753201	1	460	150	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753202	2	460	300	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753203	3	460	450	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753204	4	460	600	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753205	5	460	750	Hot Gas	Hot Gas Models w/Drain Pan Heater
24753206	6	460	900	Hot Gas	Hot Gas Models w/Drain Pan Heater

## REPLACEMENT PARTS

### Coil Defrost Heaters

Part #	No. of Fans	Voltage	Wattage	Defrost Type
24752001	1	230	300	Electric
24752002	2	230	600	Electric
24752003	3	230	900	Electric
24752004	4	230	1,200	Electric
24752005	5	230	1,500	Electric
24752006	6	230	1,800	Electric
24754101*	1	230	150	Electric
24754102*	2	230	300	Electric
24754103*	3	230	450	Electric
24754104*	4	230	600	Electric
24754105*	5	230	750	Electric
24754106*	6	230	900	Electric

\* = One used per 460V unit only, top coil heater position

### Electrical Components

Part #	Description	Defrost Type	Application Notes
22597101	Terminal Board	Air	All
22597701	Terminal Board	Electric/Hot Gas	All
5709L	Defrost Termination/Fan Delay Thermostat	Electric	Fixed Bi-Metallic Control
5708L	Heater Limit Thermostat	Electric	Fixed Bi-Metallic Control
4267W	Defrost Termination/Fan Delay Thermostat	Electric/Hot Gas	Adjustable Control
28913901	Room Thermostat	Air/Electric	Room Thermostat Mech
28963201	Room Thermostat	Air/Electric	Room Thermostat Elec

### Drain Fitting

Part #	Description	Application Notes
26925101	Drain Fitting Kit	All

### A2L Refrigeration Detection System

Part #	Description
A2L Refrigeration Detection System (RDS) Kit	
89727501	ASSY-A2L RDS FIELD INSTALL, LOP
Part #	Description
A2L Mitigation Sensor (Replacement Part)	
28915901S	A2L SENSOR REPLACEMENT PART
A2L Mitigation Controller (Replacement Part)	
28928001S	A2L CONTROL BOARD

Part #	Description
Control Power Transformer	
22529601	TRANSFORMER, 120V-24V 40 VA
22529602	TRANSFORMER, 208V/240V-24V 40 VA

# REPLACEMENT PARTS

## Air Defrost

Model No.	Liquid Line Size	Suction Line Size	Safety Shut off Valve* (SSOV) Part #			Check Valve* (CSOV) Part #		
			R-454A	R-454C	R-455A	R-454A	R-454C	R-455A
HEL0045*Y6A^A	3/8	1/2	29338301	29338301	29338301	29308801	29308801	29308801
HEL0055*Y6A^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0060*Y6A^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0095*Y6A^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0105*Y6A^A	3/8	5/8	29338301	29338301	29338401	29308801	29308801	29308801
HEL0115*Y6A^A	3/8	7/8	29338401	29338301	29338401	29308801	29308801	29308801
HEL0125*Y6A^A	3/8	7/8	29338401	29338401	29338401	29308801	29308801	29308801
HEL0155*Y6A^A	3/8	7/8	29338401	29338401	29338401	29308801	29308801	29308801
HEL0190*Y6A^A	3/8	7/8	29338401	29338401	29338401	29308801	29308801	29308803
HEL0250*Y6A^A	3/8	7/8	29338401	29338401	29338601	29308802	29308802	29308803
HEL0295*Y6A^A	3/8	7/8	29338601	29338601	29338601	29308803	29308803	29308803
HEL0350*Y6A^A	3/8	1-1/8	29338601	29338601	29338601	29308803	29308803	29308804
HEL0380*Y6A^A	3/8	1-1/8	29338601	29338601	29338601	29308804	29308803	29308804

## Electric Defrost

Model No.	Liquid Line Size	Suction Line Size	Safety Shut off Valve* (SSOV) Part #			Check Valve* (CSOV) Part #		
			R-454A	R-454C	R-455A	R-454A	R-454C	R-455A
HEL0040*Y6E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0045*Y6E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0065*Y6E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0080*Y6E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0100*Y6E^A	3/8	7/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0130*Y6E^A	3/8	7/8	29338301	29338301	29338401	29308802	29308802	29308803
HEL0155*Y6E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0170*Y6E^A	3/8	7/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0205*Y6E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0240*Y6E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0255*Y6E^A	3/8	1-1/8	29338401	29338401	29338601	29308804	29308804	29308804
HEL0310*Y6E^A	3/8	1-1/8	29338601	29338601	29338601	29308804	29308804	29308804
HEL0045*Y4E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0070*Y4E^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0090*Y4E^A	3/8	7/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0135*Y4E^A	3/8	7/8	29338301	29338301	29338301	29308801	29308802	29308802
HEL0180*Y4E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0220*Y4E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0275*Y4E^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308804	29308804

\* = Applicable for 1 unit cooler, 1 condensing unit system only

## REPLACEMENT PARTS

### Hot Gas Defrost

Model No.	Liquid Line Size	Suction Line Size	Safety Shut off Valve* (SSOV) Part #			Check Valve* (CSOV) Part #		
			R-454A	R-454C	R-455A	R-454A	R-454C	R-455A
HEL0040*Y6H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0045*Y6H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0065*Y6H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0080*Y6H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0100*Y6H^A	3/8	7/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0130*Y6H^A	3/8	7/8	29338301	29338301	29338401	29308802	29308802	29308803
HEL0155*Y6H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0170*Y6H^A	3/8	7/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0205*Y6H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0240*Y6H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0255*Y6H^A	3/8	1-1/8	29338401	29338401	29338601	29308804	29308804	29308804
HEL0310*Y6H^A	3/8	1-1/8	29338601	29338601	29338601	29308804	29308804	29308804
HEL0045*Y4H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0070*Y4H^A	3/8	5/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0090*Y4H^A	3/8	7/8	29338301	29338301	29338301	29308801	29308801	29308801
HEL0135*Y4H^A	3/8	7/8	29338301	29338301	29338301	29308801	29308802	29308802
HEL0180*Y4H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0220*Y4H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308803	29308803
HEL0275*Y4H^A	3/8	1-1/8	29338401	29338401	29338401	29308803	29308804	29308804

\* = Applicable for 1 unit cooler, 1 condensing unit system only

# 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	
HEL0045*±6A^A	1	3/16	15	1	-	-	-	-	-	-	-	-
HEL0055*±6A^A	1	3/16	15	2	L-1/3	L-1/2	L-1/3	L-1/3	L-1/3	L-1/3	L-1/3	L-1/2
HEL0060*±6A^A	1	3/16	15	2	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-1/2	L-1/2
HEL0095*±6A^A	2	3/16	15	2	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-1/2	L-3/4
HEL0105*±6A^A	2	3/16	15	3	L-3/4	L-1	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	L-1
HEL0115*±6A^A	2	3/16	15	4	L-1	L-1 1/2	L-1	L-1	L-3/4	L-3/4	L-3/4	L-1
HEL0125*±6A^A	2	3/16	15	4	L-1	L-1 1/2	L-1	L-1	L-1	L-3/4	L-3/4	L-1
HEL0155*±6A^A	3	3/16	15	4	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1	L-1 1/2
HEL0190*±6A^A	3	3/16	15	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	L-1 1/2
HEL0250*±6A^A	4	3/16	15	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	L-2
HEL0295*±6A^A	5	3/16	15	6	L-2	L-2 1/2	L-1 1/2	L-1 1/2	L-2	L-1 1/2	L-1 1/2	L-2
HEL0350*±6A^A	6	3/16	15	7	L-2	L-3	L-2	L-2	L-2	L-2	L-2	L-2 1/2
HEL0380*±6A^A	6	3/16	15	8	L-2 1/2	L-3	L-2 1/2	L-2 1/2	L-2 1/2	L-2 1/2	L-2 1/2	L-3

**Notes:**

Nozzles sized for 90-100°F liquid temperature at expansion valve.  
 Contact Application Engineering for guidance if:  
 - Liquid temperature is not 90-100°F  
 - Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)  
 Caution: Refrigeration system will not perform properly without correct nozzle  
 \* = Electrical Code Designator (see Nomenclature details)  
 ± = Refrigerant Designator

# STANDARD NOZZLE SELECTION

## 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	
HEL0040*±6E^A	1	3/16	15	2	L-1/2	L-3/4	L-1/2	-	L-1/3	L-1/3	L-1/2	
HEL0045*±6E^A	1	3/16	15	2	L-3/4	L-3/4	L-1/2	-	L-1/2	L-1/2	L-3/4	
HEL0065*±6E^A	2	3/16	15	3	L-3/4	L-1	L-3/4	-	L-3/4	L-3/4	L-3/4	
HEL0080*±6E^A	2	3/16	15	3	L-1	L-1 1/2	L-1	-	L-3/4	L-3/4	L-1	
HEL0100*±6E^A	2	3/16	15	6	L-1 1/2	L-1 1/2	L-1	-	L-1	L-1	L-1 1/2	
HEL0130*±6E^A	3	3/16	15	6	L-1 1/2	L-2	L-1 1/2	-	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0155*±6E^A	3	3/16	15	8	L-2	L-2 1/2	L-2	-	L-1 1/2	L-1 1/2	L-2	
HEL0170*±6E^A	4	3/16	15	6	L-2	L-2 1/2	L-2	-	L-2	L-2	L-2	
HEL0205*±6E^A	4	3/16	15	8	L-2 1/2	L-3	L-2	-	L-2	L-2	L-2	
HEL0240*±6E^A	5	3/16	15	8	L-2 1/2	L-4	L-2 1/2	-	L-2	L-2	L-2 1/2	
HEL0255*±6E^A	6	3/16	15	9	L-3	L-4	L-3	-	L-2 1/2	L-2 1/2	L-3	
HEL0310*±6E^A	6	3/16	15	12	L-4	L-5	L-3	-	L-3	L-3	L-4	
HEL0045*±4E^A	1	3/16	15	2	L-1/2	L-3/4	L-1/2	-	L-1/2	L-1/2	L-1/2	
HEL0070*±4E^A	2	3/16	15	3	L-3/4	L-1	L-3/4	-	L-3/4	L-3/4	L-3/4	
HEL0090*±4E^A	2	3/16	15	6	L-1	L-1 1/2	L-1	-	L-1	L-1	L-1	
HEL0135*±4E^A	3	3/16	15	6	L-1 1/2	L-2	L-1 1/2	-	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0180*±4E^A	4	3/16	15	8	L-2	L-2 1/2	L-2	-	L-1 1/2	L-1 1/2	L-2	
HEL0220*±4E^A	5	3/16	15	8	L-2	L-3	L-2	-	L-2	L-2	L-2	
HEL0275*±4E^A	6	3/16	15	12	L-3	L-4	L-3	-	L-2 1/2	L-2 1/2	L-3	

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	
HEL0040*±6E^A	1	3/16	15	2	L-1/4	L-1/3	L-1/4	L-1/4	L-1/4	L-1/4	L-1/4	
HEL0045*±6E^A	1	3/16	15	2	L-1/3	L-1/2	L-1/3	L-1/3	L-1/3	L-1/3	L-1/3	
HEL0065*±6E^A	2	3/16	15	3	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-1/2	
HEL0080*±6E^A	2	3/16	15	3	L-3/4	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-3/4	
HEL0100*±6E^A	2	3/16	15	6	L-3/4	L-1	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	
HEL0130*±6E^A	3	3/16	15	6	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1	
HEL0155*±6E^A	3	3/16	15	8	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1 1/2	
HEL0170*±6E^A	4	3/16	15	6	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0205*±6E^A	4	3/16	15	8	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	
HEL0240*±6E^A	5	3/16	15	8	L-1 1/2	L-2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-2	
HEL0255*±6E^A	6	3/16	15	9	L-2	L-2 1/2	L-2	L-2	L-2	L-2	L-2	
HEL0310*±6E^A	6	3/16	15	12	L-2	L-3	L-2	L-2	L-2	L-2	L-2 1/2	
HEL0045*±4E^A	1	3/16	15	2	L-1/3	L-1/2	L-1/4	L-1/4	L-1/4	L-1/4	L-1/3	
HEL0070*±4E^A	2	3/16	15	3	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-3/4	
HEL0090*±4E^A	2	3/16	15	6	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	
HEL0135*±4E^A	3	3/16	15	6	L-3/4	L-1	L-3/4	L-3/4	L-3/4	L-3/4	L-1	
HEL0180*±4E^A	4	3/16	15	8	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1 1/2	
HEL0220*±4E^A	5	3/16	15	8	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	
HEL0275*±4E^A	6	3/16	15	12	L-2	L-2 1/2	L-2	L-2	L-2	L-2	L-2	

**Notes:**

Nozzles sized for 90-100°F liquid temperature at expansion valve.  
 Contact Application Engineering for guidance if:  
 - Liquid temperature is not 90-100°F  
 - Evaporator TD is not 10°-15°F (room temperature – saturated suction temperature)  
 Caution: Refrigeration system will not perform properly without correct nozzle  
 \* = Electrical Code Designator (see Nomenclature details)  
 ± = Refrigerant Designator

# STANDARD NOZZLE SELECTION

## Hot Gas 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	
HEL0040*±6H^A	1	3/16	15	2	L-1/2	L-3/4	L-1/2	-	L-1/3	L-1/3	L-1/2	
HEL0045*±6H^A	1	3/16	15	2	L-3/4	L-3/4	L-1/2	-	L-1/2	L-1/2	L-3/4	
HEL0065*±6H^A	2	3/16	15	3	L-3/4	L-1	L-3/4	-	L-3/4	L-3/4	L-3/4	
HEL0080*±6H^A	2	3/16	15	3	L-1	L-1 1/2	L-1	-	L-3/4	L-3/4	L-1	
HEL0100*±6H^A	2	3/16	15	6	L-1 1/2	L-1 1/2	L-1	-	L-1	L-1	L-1 1/2	
HEL0130*±6H^A	3	3/16	15	6	L-1 1/2	L-2	L-1 1/2	-	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0155*±6H^A	3	3/16	15	8	L-2	L-2 1/2	L-2	-	L-1 1/2	L-1 1/2	L-2	
HEL0170*±6H^A	4	3/16	15	6	L-2	L-2 1/2	L-2	-	L-2	L-2	L-2	
HEL0205*±6H^A	4	3/16	15	8	L-2 1/2	L-3	L-2	-	L-2	L-2	L-2	
HEL0240*±6H^A	5	3/16	15	8	L-2 1/2	L-4	L-2 1/2	-	L-2	L-2	L-2 1/2	
HEL0255*±6H^A	6	3/16	15	9	L-3	L-4	L-3	-	L-2 1/2	L-2 1/2	L-3	
HEL0310*±6H^A	6	3/16	15	12	L-4	L-5	L-3	-	L-3	L-3	L-4	
HEL0045*±4H^A	1	3/16	15	2	L-1/2	L-3/4	L-1/2	-	L-1/2	L-1/2	L-1/2	
HEL0070*±4H^A	2	3/16	15	3	L-3/4	L-1	L-3/4	-	L-3/4	L-3/4	L-3/4	
HEL0090*±4H^A	2	3/16	15	6	L-1	L-1 1/2	L-1	-	L-1	L-1	L-1	
HEL0135*±4H^A	3	3/16	15	6	L-1 1/2	L-2	L-1 1/2	-	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0180*±4H^A	4	3/16	15	8	L-2	L-2 1/2	L-2	-	L-1 1/2	L-1 1/2	L-2	
HEL0220*±4H^A	5	3/16	15	8	L-2	L-3	L-2	-	L-2	L-2	L-2	
HEL0275*±4H^A	6	3/16	15	12	L-3	L-4	L-3	-	L-2 1/2	L-2 1/2	L-3	

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	
HEL0040*±6H^A	1	3/16	15	2	L-1/4	L-1/3	L-1/4	L-1/4	L-1/4	L-1/4	L-1/4	
HEL0045*±6H^A	1	3/16	15	2	L-1/3	L-1/2	L-1/3	L-1/3	L-1/3	L-1/3	L-1/3	
HEL0065*±6H^A	2	3/16	15	3	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-1/2	
HEL0080*±6H^A	2	3/16	15	3	L-3/4	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-3/4	
HEL0100*±6H^A	2	3/16	15	6	L-3/4	L-1	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	
HEL0130*±6H^A	3	3/16	15	6	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1	
HEL0155*±6H^A	3	3/16	15	8	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1 1/2	
HEL0170*±6H^A	4	3/16	15	6	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	
HEL0205*±6H^A	4	3/16	15	8	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	
HEL0240*±6H^A	5	3/16	15	8	L-1 1/2	L-2	L-1 1/2	L-1 1/2	L-1 1/2	L-1 1/2	L-2	
HEL0255*±6H^A	6	3/16	15	9	L-2	L-2 1/2	L-2	L-2	L-2	L-2	L-2	
HEL0310*±6H^A	6	3/16	15	12	L-2	L-3	L-2	L-2	L-2	L-2	L-2 1/2	
HEL0045*±4H^A	1	3/16	15	2	L-1/3	L-1/2	L-1/4	L-1/4	L-1/4	L-1/4	L-1/3	
HEL0070*±4H^A	2	3/16	15	3	L-1/2	L-3/4	L-1/2	L-1/2	L-1/2	L-1/2	L-3/4	
HEL0090*±4H^A	2	3/16	15	6	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	L-3/4	
HEL0135*±4H^A	3	3/16	15	6	L-3/4	L-1	L-3/4	L-3/4	L-3/4	L-3/4	L-1	
HEL0180*±4H^A	4	3/16	15	8	L-1	L-1 1/2	L-1	L-1	L-1	L-1	L-1 1/2	
HEL0220*±4H^A	5	3/16	15	8	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	
HEL0275*±4H^A	6	3/16	15	12	L-2	L-2 1/2	L-2	L-2	L-2	L-2	L-2	

**Notes:**

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2175 West Park Place Blvd.

Stone Mountain, GA 30087

Phone: 800.537.7775 · Fax: 770.465.5900

[heatcraftprd.com](http://heatcraftprd.com)

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

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