

MOHAVE ADVANCED HOT GAS DEFROST SYSTEM

Technical Guide
Now including DOE compliant models





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OVERVIEW

The Mohave™ advanced hot gas defrost refrigeration system with controller utilizes hot gas to greatly reduce defrost times and operates in all outdoor ambient temperatures.* This leads to increased energy efficiency and product integrity in a refrigeration system that can be used in a greater variety of environmental conditions. This system utilizes a state-of-the-art electronic defrost controller with a proprietary control scheme that allows the system to continually operate at its most optimal level. This system can be applied for a minimum room temperature of -25°F and with one or two evaporators.

*Tested to -20°F ambient.

MOHAVE ADVANTAGES

The Mohave controller completely manages timing and sequence of defrost

Point to point wiring to all control components

Automatically compensates for changes in outdoor temperatures

Quick and easy troubleshooting

Monitors all pressures, temperatures, and setpoints in real time.

Easily programmable through a menu driven interface

The control board with conformal coating will handle the toughest conditions

LED indicators on the board clearly show system status

Remote alarm notification

Significant energy savings over electric defrost systems

Electronic pressure regulator for defrost control

Evaporators have independent or single point power supply from condensing unit

Evaporators have electric drain pan heater standard (mounted hot gas drain loop optional)

ELECTRIC VS. HOT GAS DRAIN PAN

Electric Drain Pan Heater (Std)	Advantages
In this option, the drain pan surface is heated with low wattage electric heater(s)	Lower cost solution
The electrical power requirements to the evaporator are unchanged	Defrost is even quicker because more hot gas is available to defrost the evaporator coil
Hot Gas Drain Pan Loop	Advantages
In this option, hot refrigerant gas passes through a loop of copper tubing that heats the drain pan surface before it defrosts the evaporator coil	In applications where there is limited evaporator accessibility (ex: controlled atmosphere rooms)

FEATURES & BENEFITS

QUALITY

- All joints are sweat type connections, no mechanical joints to leak
- Fixed high and adjustable low pressure switch
- Piping is laid out to minimize stress and vibration and is pre-bent to eliminate braze joints where possible to reduce leak potential
- Pressure relief valve on receiver
- Refrigeration duty, rifled copper condenser tubing
- Separate subcooling circuit in condenser for added capacity and vapor free liquid
- Servicemate diagnostic module standard on all non-Beacon condensing units
- Sight glass is easily viewable
- Anti-short cycle timer

SERVICEABILITY

- Convenient access panels to easily service internal components
- Large electrical panel to facilitate ease of access
- Manual pumpdown switch on all units
- Lighted e-box with battery back-up
- Hinged venturi fan panels for easy access

- E-box door props
- Replaceable core liquid line filter drier and sight glass
- Replaceable core suction filter

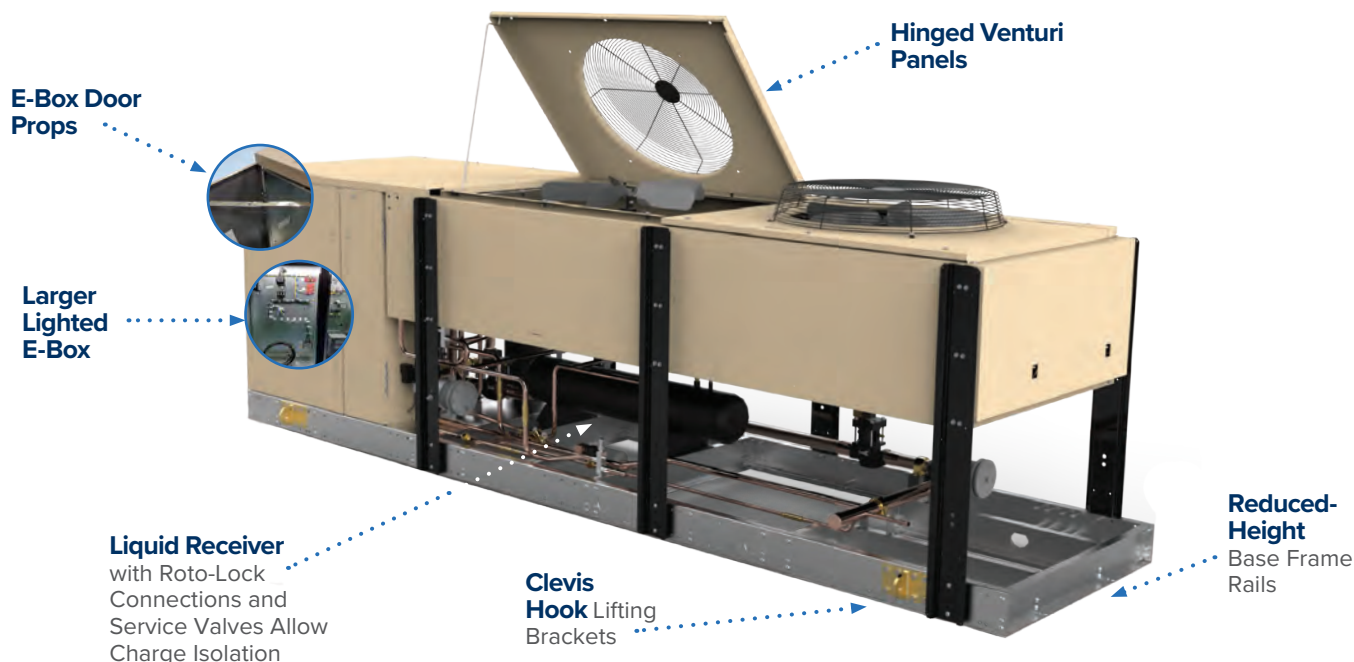
COMPONENTS

- Electronic defrost controller
- Receivers are sized for sufficient pumpdown capacity with inlet and outlet service valves
- Spring-mounted compressors with suction and discharge eliminators
- High efficiency motors
- High pressure switch-auto reset
- Adjustable head pressure control
- Aluminum fin coil
- Condenser fan cycling (pressure or temperature)

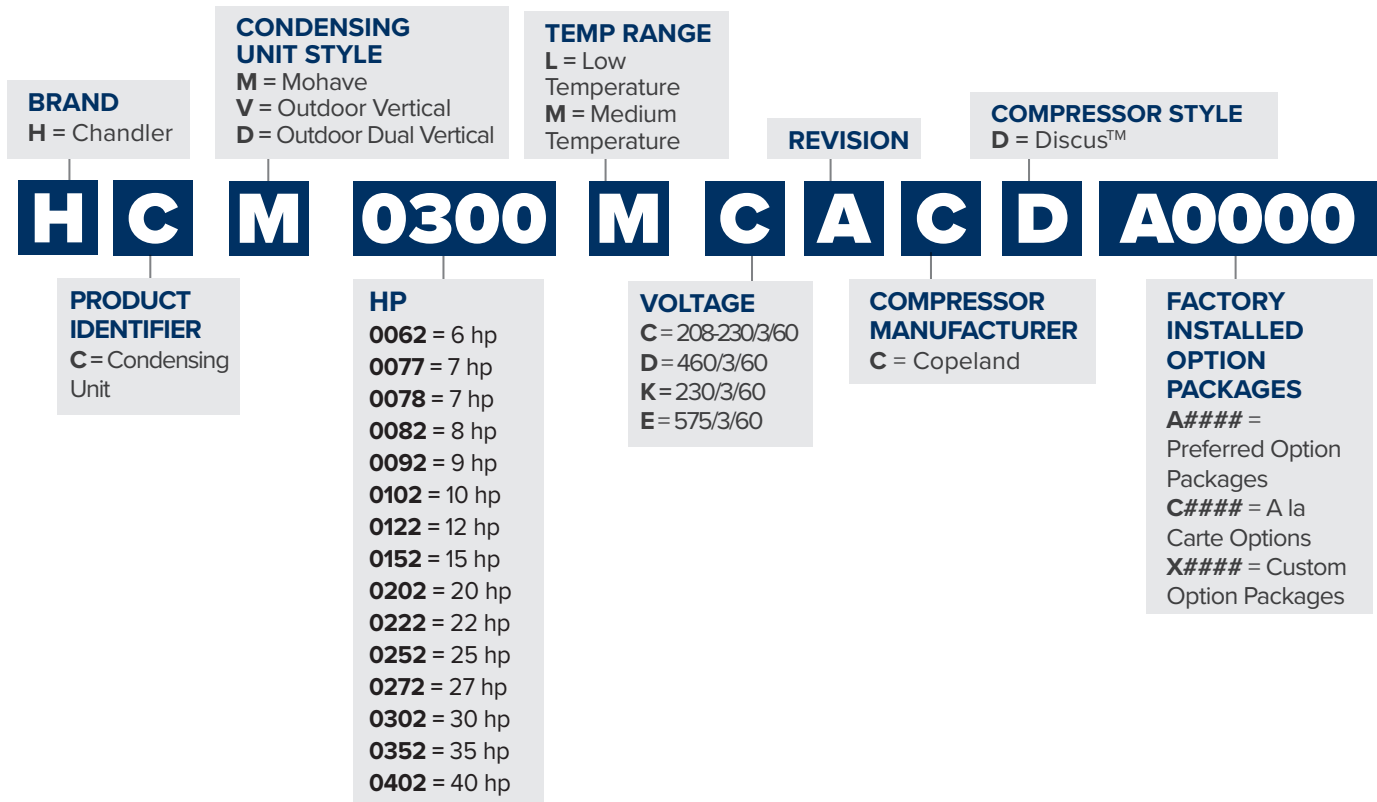
CABINET AND CONSTRUCTION

- All units feature the floating tube coil which eliminates tube sheet leaks
- Painted steel cabinet for superior strength and corrosion resistance
- Clevis hook-up brackets to aid unit installation

OUTSTANDING FEATURES



NOMENCLATURE



FACTORY INSTALLED: PREFERRED OPTION PACKAGES

Option Code	Description (All Preferred Options include Standard Base +)
A1004	Pr. Controlled fan cycling + Replaceable core Suction line-filter + Accumulator
A1300	Oil Separator with discharge line check valve
A1400	Phase Loss Motor

THE MOHAVE CONTROLLER

- Fast, dependable, and efficient positive defrost of evaporators
- Five to ten minute defrost times in most applications
- Will operate efficiently in all outdoor ambient conditions*
- Significant energy savings over electric defrost systems
- Highest levels of product integrity through more stable box temperatures

*Tested to -20°F ambient.

MOHAVE QUICK REFERENCE GUIDE

CONTROL BUTTONS

Program Review:

Review or Change the Program Settings

Enter:

Accepts changes into memory

Monitor:

View Current Operating Conditions of the System

Reset Time:

Resets the time clocks of the microprocessor to 0

Clear/Test:

Clear ignores program selections prior to pressing Enter and terminates Service Mode. Test causes the system to cycle through all of the outputs for troubleshooting

Select Knob:

Used for Cycling through Monitoring and Programming Parameters

Force Service:

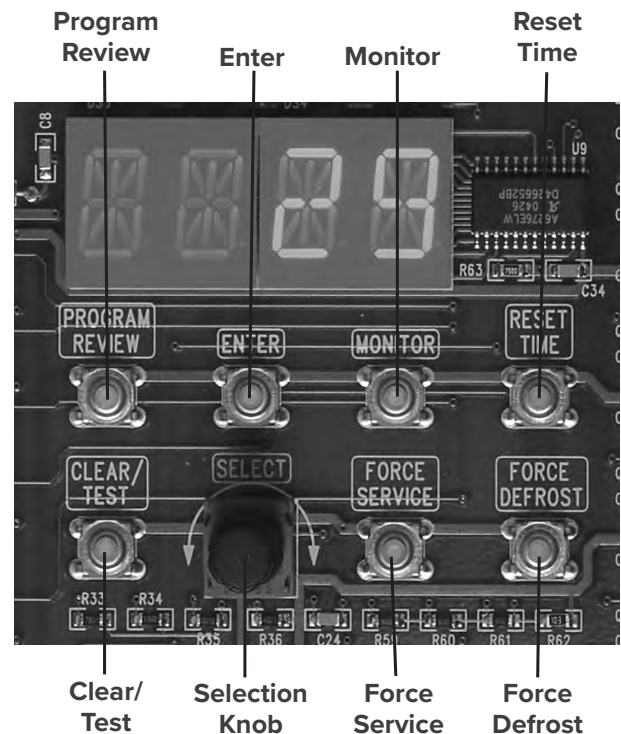
Press this button twice to cause the system to pump down and remain off until the Clear button is pressed

Force Defrost:

System will pump down and begin a defrost cycle. This will not affect the normally scheduled defrosts

SERVICE SWITCH

This toggle switch may be placed in the “on” position to force the system into Service Mode. The compressor will pump down and shut off. The evaporator fans will de-energize. The system can be left in service mode for seasonal “OFF” situations.



OPERATING MODES

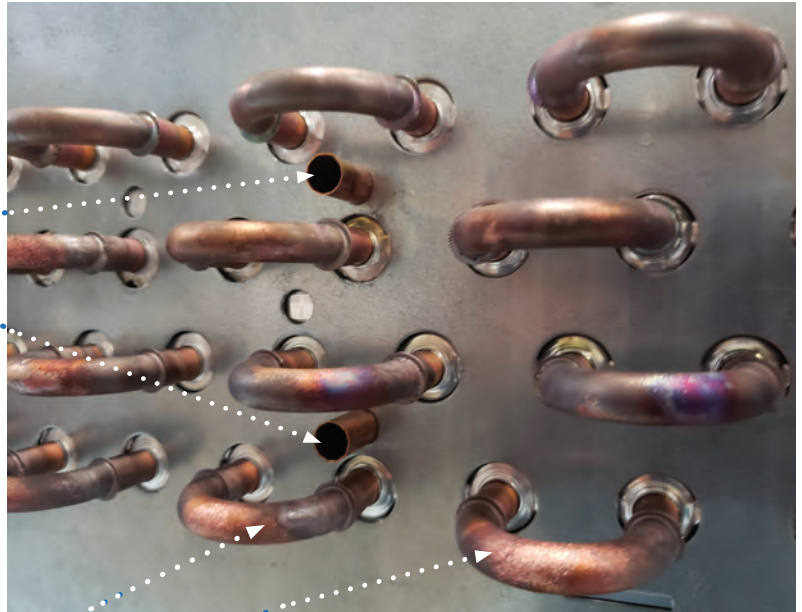
Mode	Description
OFF	Compressor Off
COOL	Compressor On in Cooling Normal Cooling Operation
PMPD	System in Pump Down Mode
SERV	Service Mode, System is Off
DELAY	Timed Delay
DEF1	Defrost Stage 1/ Pre-Defrost or Bypass Mode

Mode	Description
DEF2	Defrost Stage 2/Defrost Mode
DEF3	Defrost Stage 3/ Post Defrost Equalization/Drain Down Mode
REFR	Refreeze Mode
TEST	Test Mode
SERV	Service Mode
EVAC	Evacuation Mode

FLOATING TUBE COIL DESIGN

Expanded (Locked) Auxiliary Tubes

These tubes support the coil with fins and refrigerant carrying tubes. They do not carry refrigerant and are tightly fitted on end supports and center supports



Free Floating Circuited Coil Tubes

These tubes carry refrigerant and never touch the sheet metal end supports or center supports.

All units include a limited
Five Year Warranty
against condenser leaks at tube
sheets and center supports.

All condensers use the Floating Tube™ coil design to eliminate refrigerant leaks at the tube sheets. Additional tubes are added to the condenser coil. These tubes are expanded into the aluminum fins and condenser tube sheets. These anchor tubes support the weight of the coil, but are not a part of the refrigerant circuit.

The tubes in the refrigerant circuit are expanded into the fins, but “float” through oversized holes in the tube sheets. Tube sheet leaks are virtually eliminated, since the tubes which carry refrigerant never come in contact with the tube sheet.

PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-404A/R-507A		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	103,600	94,050	85,030	76,590	68,760	61,550	54,880	-	33,730
HCM0078MAACD	2DA3R89KE	116,870	106,540	96,710	87,550	79,040	71,190	63,940	51,070	-
HCM0082MAACD	3DA3R10ME	135,030	123,250	112,210	101,700	91,870	82,760	74,270	59,180	46,260
HCM0102MAACD	3DB3R12ME	156,280	143,060	130,560	118,800	107,870	97,620	88,050	70,770	55,560
HCM0122MAACD	3DF3R15ME	186,240	171,340	157,160	143,370	130,490	118,240	106,870	86,400	68,350
HCM0152MAACD	3DS3R17ME	199,810	184,350	169,150	154,950	141,420	128,710	116,490	94,430	74,980
HCM0202MAACD	4DBNR20ME	256,530	237,320	218,390	199,480	181,010	163,710	147,210	117,930	94,950
HCM0252MAACD	4DHNR22ME	275,720	255,030	234,700	214,770	195,380	176,640	158,750	127,240	102,500
HCM0302MAACD	4DJNR28ME	320,690	296,410	272,630	249,690	227,200	206,330	186,530	149,880	118,180
HCM0352MAACD	6DHNR35ME	420,950	386,300	354,070	323,180	294,080	266,140	240,400	193,760	-
HCM0402MAACD	6DJNR40ME	484,610	447,210	411,660	377,250	344,580	312,900	283,160	229,080	-

R-404A/R-507A		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	99,090	89,970	81,350	73,290	65,760	58,860	52,510	41,390	32,230
HCM0078MAACD	2DA3R89KE	111,840	101,920	92,550	83,810	75,680	68,170	61,210	48,850	-
HCM0082MAACD	3DA3R10ME	129,000	117,960	107,360	97,370	88,020	79,350	71,240	56,810	44,380
HCM0102MAACD	3DB3R12ME	149,450	137,030	125,020	113,840	103,450	93,660	84,500	67,930	53,260
HCM0122MAACD	3DF3R15ME	177,720	163,650	150,200	137,030	124,800	113,260	102,510	82,870	65,530
HCM0152MAACD	3DS3R17ME	190,450	175,880	161,570	148,150	135,330	123,270	111,600	90,570	71,910
HCM0202MAACD	4DBNR20ME	245,020	227,080	208,560	190,550	172,820	156,280	140,480	112,450	90,460
HCM0252MAACD	4DHNR22ME	262,680	243,920	224,230	205,390	186,590	168,590	151,520	121,380	97,800
HCM0302MAACD	4DJNR28ME	304,930	281,960	259,490	237,160	216,510	196,970	177,850	143,060	113,040
HCM0352MAACD	6DHNR35ME	400,780	368,140	337,650	308,250	280,790	254,530	229,620	184,980	-
HCM0402MAACD	6DJNR40ME	462,400	426,950	393,360	360,680	329,520	299,050	270,660	219,120	-

R-404A/R-507A		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	94,560	85,880	77,670	69,990	62,800	56,220	50,140	39,510	30,740
HCM0078MAACD	2DA3R89KE	106,700	97,280	88,380	80,050	72,290	65,130	58,440	46,600	-
HCM0082MAACD	3DA3R10ME	123,080	112,670	102,630	93,180	84,300	76,040	68,320	54,510	42,560
HCM0102MAACD	3DB3R12ME	142,460	130,730	119,480	108,970	99,000	89,700	80,960	65,070	50,930
HCM0122MAACD	3DF3R15ME	169,160	155,930	143,240	130,800	119,230	108,300	98,100	79,360	62,740
HCM0152MAACD	3DS3R17ME	181,030	167,390	153,950	141,330	129,400	117,800	106,920	86,800	68,860
HCM0202MAACD	4DBNR20ME	233,620	216,460	198,620	181,500	164,720	148,960	133,840	107,060	86,090
HCM0252MAACD	4DHNR22ME	250,240	231,960	213,750	195,800	177,780	160,690	144,390	115,620	93,150
HCM0302MAACD	4DJNR28ME	288,210	267,440	245,780	225,330	205,780	187,260	169,130	136,450	107,980
HCM0352MAACD	6DHNR35ME	380,390	349,720	321,060	293,380	267,280	242,480	218,720	176,160	-
HCM0402MAACD	6DJNR40ME	439,730	406,350	374,670	343,740	314,190	285,470	258,220	209,150	-

Notes:

^C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-404A/R-507A		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M\ACD	2DL3R78KE	85,460	77,690	70,310	63,350	56,900	50,940	45,440	35,790	27,790
HCM0078M\ACD	2DA3R89KE	96,390	87,990	80,010	72,530	65,530	59,010	52,950	42,110	-
HCM0082M\ACD	3DA3R10ME	111,660	102,340	93,430	84,990	77,040	69,610	62,620	49,990	38,900
HCM0102M\ACD	3DB3R12ME	128,690	118,240	108,430	99,000	90,080	81,710	73,810	59,350	46,280
HCM0122M\ACD	3DF3R15ME	152,060	140,660	129,180	118,400	108,100	98,510	89,310	72,440	57,260
HCM0152M\ACD	3DS3R17ME	-	150,000	138,650	127,630	117,100	106,760	97,080	79,150	62,810
HCM0202M\ACD	4DBNR20ME	211,310	195,140	179,590	163,990	149,100	134,640	120,900	96,520	77,480
HCM0252M\ACD	4DHNR22ME	225,890	209,240	193,230	176,520	160,640	145,140	130,550	104,320	83,960
HCM0302M\ACD	4DJNR28ME	-	-	219,030	201,390	184,570	167,820	151,900	123,100	98,060
HCM0352M\ACD	6DHNR35ME	339,140	312,270	287,020	263,230	239,520	217,560	196,860	158,380	-
HCM0402M\ACD	6DJNR40ME	393,260	363,980	336,160	309,450	282,360	257,030	233,030	188,850	-

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-448A/R-449A		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	98,310	88,610	79,630	71,390	63,850	56,970	50,640	39,430	29,630
HCM0078MAACD	2DA3R89KE	110,920	100,130	90,040	80,620	71,900	63,910	56,570	43,860	33,510
HCM0082MAACD	3DA3R10ME	132,150	120,140	108,600	97,690	87,350	77,730	68,780	53,180	40,700
HCM0102MAACD	3DB3R12ME	153,810	140,250	127,270	114,850	103,100	92,170	81,930	63,970	49,500
HCM0122MAACD	3DF3R15ME	177,960	162,390	147,270	132,820	119,040	106,170	94,230	73,240	56,600
HCM0152MAACD	3DS3R17ME	198,900	182,390	166,230	150,810	135,820	121,650	108,290	84,030	63,460
HCM0202MAACD	4DBNR20ME	259,700	236,030	213,440	192,400	172,760	154,700	138,030	108,280	82,720
HCM0252MAACD	4DHNR22ME	284,440	258,620	234,300	211,230	189,770	169,980	151,460	118,810	90,720
HCM0302MAACD	4DJNR28ME	322,760	296,670	271,180	246,460	222,870	199,960	177,920	137,350	101,000
HCM0352MAACD	6DHNR35ME	407,630	374,650	342,160	310,230	279,470	250,120	222,530	173,280	133,540
HCM0402MAACD	6DJNR40ME	484,560	445,430	406,620	368,840	332,120	297,150	264,210	205,700	158,920

R-448A/R-449A		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	95,000	85,630	76,970	69,010	61,720	55,070	48,950	38,090	28,580
HCM0078MAACD	2DA3R89KE	107,060	96,700	86,920	77,810	69,390	61,660	54,560	-	32,210
HCM0082MAACD	3DA3R10ME	127,490	115,940	104,820	94,290	84,280	74,950	66,240	50,950	38,630
HCM0102MAACD	3DB3R12ME	148,480	135,530	122,930	110,920	99,600	88,950	78,990	61,420	47,110
HCM0122MAACD	3DF3R15ME	171,360	156,420	141,920	128,060	114,730	102,290	90,710	70,240	53,810
HCM0152MAACD	3DS3R17ME	191,690	175,920	160,450	145,630	131,190	117,480	104,520	80,790	60,330
HCM0202MAACD	4DBNR20ME	250,640	227,800	206,000	185,740	166,720	149,240	133,150	104,350	79,540
HCM0252MAACD	4DHNR22ME	274,320	249,470	226,070	203,810	183,080	163,920	146,050	114,450	87,220
HCM0302MAACD	4DJNR28ME	310,260	285,290	260,820	237,070	214,130	192,310	170,960	131,820	96,710
HCM0352MAACD	6DHNR35ME	394,900	363,230	331,960	301,120	271,320	242,940	215,980	167,790	128,560
HCM0402MAACD	6DJNR40ME	469,330	431,790	394,420	357,980	322,430	288,550	256,490	199,310	153,250

R-448A/R-449A		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077MAACD	2DL3R78KE	91,670	82,630	74,280	66,600	59,560	53,140	47,210	36,710	27,490
HCM0078MAACD	2DA3R89KE	103,160	93,190	83,760	74,980	66,850	59,390	52,520	-	30,890
HCM0082MAACD	3DA3R10ME	122,790	111,690	101,030	90,810	81,140	72,070	63,600	48,620	36,440
HCM0102MAACD	3DB3R12ME	142,960	130,650	118,470	106,890	95,950	85,610	75,920	-	44,580
HCM0122MAACD	3DF3R15ME	164,710	150,410	136,370	123,080	110,290	98,250	87,030	67,030	50,750
HCM0152MAACD	3DS3R17ME	184,520	169,480	154,690	140,450	126,530	113,210	100,610	77,450	57,150
HCM0202MAACD	4DBNR20ME	241,480	219,510	198,320	178,860	160,600	143,840	128,180	100,330	76,280
HCM0252MAACD	4DHNR22ME	264,150	240,260	217,760	196,330	176,160	157,740	140,530	109,990	83,620
HCM0302MAACD	4DJNR28ME	297,450	273,610	250,180	227,370	205,250	184,300	164,060	126,230	92,320
HCM0352MAACD	6DHNR35ME	382,020	351,680	321,640	291,890	263,070	235,580	209,250	162,150	123,420
HCM0402MAACD	6DJNR40ME	454,000	418,020	382,120	347,010	312,660	279,900	248,630	192,790	147,420

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-448A/R-449A		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M^ACD	2DL3R78KE	84,970	76,600	68,850	61,730	55,190	49,210	43,680	33,880	25,230
HCM0078M^ACD	2DA3R89KE	95,370	86,110	77,380	69,240	61,700	54,770	48,370	37,280	28,230
HCM0082M^ACD	3DA3R10ME	113,330	103,090	93,240	83,730	74,670	66,140	58,110	43,740	31,820
HCM0102M^ACD	3DB3R12ME	132,020	120,470	109,290	98,590	88,310	78,590	69,420	-	39,130
HCM0122M^ACD	3DF3R15ME	151,310	138,220	125,410	113,020	101,110	89,940	79,280	60,150	44,160
HCM0152M^ACD	3DS3R17ME	-	-	143,210	130,130	117,250	104,910	92,900	70,680	50,680
HCM0202M^ACD	4DBNR20ME	223,030	202,730	183,360	165,130	148,180	132,630	118,060	92,050	69,500
HCM0252M^ACD	4DHNR22ME	-	221,520	200,830	181,020	162,530	145,310	129,300	100,810	76,100
HCM0302M^ACD	4DJNR28ME	-	-	-	207,140	187,300	167,780	149,030	114,410	83,210
HCM0352M^ACD	6DHNR35ME	-	328,230	300,620	273,070	246,000	220,220	195,430	150,370	112,600
HCM0402M^ACD	6DJNR40ME	-	-	357,020	324,610	292,620	261,930	232,440	179,270	135,270

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

HEAD FAN REQUIRED

PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-407A/R-407F		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	101,870	91,750	82,460	73,960	66,230	59,220	52,800	41,440	31,470
HCM0078M/ACD	2DA3R89KE	114,660	103,390	92,900	83,130	74,120	65,890	58,360	45,320	34,690
HCM0082M/ACD	3DA3R10ME	137,440	124,590	112,240	100,390	89,220	78,870	69,360	53,290	41,680
HCM0102M/ACD	3DB3R12ME	159,080	144,670	130,850	117,580	105,020	93,410	82,620	64,230	50,630
HCM0122M/ACD	3DF3R15ME	181,800	165,900	150,380	135,230	120,760	107,250	94,800	73,530	58,240
HCM0152M/ACD	3DS3R17ME	202,030	185,180	168,670	152,700	137,480	122,910	109,240	84,890	64,970
HCM0202M/ACD	4DBNR20ME	265,280	241,060	217,870	196,410	176,390	158,070	141,250	111,220	85,250
HCM0252M/ACD	4DHNR22ME	289,200	263,000	238,160	215,160	193,460	173,410	154,920	122,040	93,540
HCM0302M/ACD	4DJNR28ME	326,980	299,790	274,000	249,130	225,250	202,770	181,070	141,180	105,840
HCM0352M/ACD	6DHNR35ME	415,640	381,710	348,640	316,130	284,890	255,350	227,520	177,930	137,730
HCM0402M/ACD	6DJNR40ME	493,950	453,730	414,100	375,820	338,600	303,210	270,150	211,290	163,940

R-407A/R-407F		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	98,150	88,400	79,420	71,230	63,790	57,030	50,850	39,930	30,360
HCM0078M/ACD	2DA3R89KE	110,320	99,540	89,370	79,950	71,270	63,350	56,080	43,500	33,250
HCM0082M/ACD	3DA3R10ME	131,960	119,620	107,710	96,420	85,680	75,710	66,530	50,990	39,700
HCM0102M/ACD	3DB3R12ME	152,860	139,220	125,810	113,040	100,970	89,780	79,370	61,550	48,290
HCM0122M/ACD	3DF3R15ME	174,320	159,280	144,250	129,770	115,880	102,910	90,970	70,490	55,730
HCM0152M/ACD	3DS3R17ME	194,060	178,020	162,250	146,920	132,310	118,270	105,100	81,360	61,770
HCM0202M/ACD	4DBNR20ME	255,190	231,900	209,610	188,910	169,650	152,000	135,800	106,850	81,790
HCM0252M/ACD	4DHNR22ME	278,130	252,980	229,110	206,950	186,050	166,830	148,890	117,210	89,720
HCM0302M/ACD	4DJNR28ME	313,350	287,290	262,700	238,880	216,100	194,590	173,660	135,770	102,150
HCM0352M/ACD	6DHNR35ME	401,150	368,720	337,030	305,730	275,670	247,080	220,110	171,840	132,200
HCM0402M/ACD	6DJNR40ME	476,730	438,260	400,250	363,500	327,620	293,490	261,400	204,100	157,600

R-407A/R-407F		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	94,410	85,010	76,360	68,480	61,310	54,820	48,870	38,390	29,200
HCM0078M/ACD	2DA3R89KE	105,950	95,600	85,820	76,770	68,420	60,790	53,790	41,670	31,800
HCM0082M/ACD	3DA3R10ME	126,460	114,670	103,340	92,430	82,110	72,520	63,680	48,660	37,690
HCM0102M/ACD	3DB3R12ME	146,560	133,460	120,680	108,450	96,940	86,100	76,050	58,800	45,880
HCM0122M/ACD	3DF3R15ME	166,770	152,420	138,070	124,300	110,920	98,500	87,040	67,340	53,090
HCM0152M/ACD	3DS3R17ME	186,170	170,900	155,840	141,180	127,170	113,560	100,840	77,830	58,550
HCM0202M/ACD	4DBNR20ME	245,110	222,750	201,290	181,490	162,880	146,010	130,300	102,410	78,200
HCM0252M/ACD	4DHNR22ME	267,020	242,900	220,000	198,680	178,570	160,150	142,820	112,300	85,790
HCM0302M/ACD	4DJNR28ME	299,530	274,650	251,220	228,520	206,810	186,300	166,430	130,330	98,530
HCM0352M/ACD	6DHNR35ME	386,650	355,690	325,010	295,300	266,350	238,800	212,590	165,550	126,520
HCM0402M/ACD	6DJNR40ME	459,450	422,730	386,370	351,070	316,580	283,670	252,590	196,830	151,170

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-407A/R-407F		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M^ACD	2DL3R78KE	86,870	78,190	70,210	62,940	56,320	50,330	44,830	35,200	26,770
HCM0078M^ACD	2DA3R89KE	97,280	87,710	78,720	70,390	62,690	55,660	49,210	38,000	28,870
HCM0082M^ACD	3DA3R10ME	115,490	104,760	94,460	84,450	74,970	66,130	57,950	43,960	33,670
HCM0102M^ACD	3DB3R12ME	133,760	121,910	110,300	99,100	88,550	78,560	69,250	53,100	40,920
HCM0122M^ACD	3DF3R15ME	151,680	138,670	125,750	113,010	101,010	89,630	79,030	60,840	47,520
HCM0152M^ACD	3DS3R17ME	-	-	143,210	130,030	116,980	104,520	92,560	70,820	52,150
HCM0202M^ACD	4DBNR20ME	224,910	204,320	184,560	166,240	149,210	133,690	119,180	93,330	70,850
HCM0252M^ACD	4DHNR22ME	-	222,640	201,900	182,030	163,630	146,390	130,490	102,290	77,660
HCM0302M^ACD	4DJNR28ME	-	-	-	207,430	188,220	169,450	151,810	119,500	91,510
HCM0352M^ACD	6DHNR35ME	-	-	301,440	274,190	247,250	221,900	197,220	152,580	114,740
HCM0402M^ACD	6DJNR40ME	-	-	358,340	326,020	294,210	263,760	234,600	181,910	137,860

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

HEAD FAN REQUIRED

PERFORMANCE DATA – R-407C

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-407C		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	92,730	82,930	73,820	65,420	57,800	-	44,830	34,620	27,050
HCM0078M/ACD	2DA3R89KE	103,980	93,250	83,190	73,890	65,350	57,650	50,710	38,970	29,920
HCM0082M/ACD	3DA3R10ME	121,840	110,450	99,540	89,280	79,690	-	62,670	48,580	37,270
HCM0102M/ACD	3DB3R12ME	142,190	129,170	116,800	105,180	94,260	84,160	-	58,450	45,210
HCM0122M/ACD	3DF3R15ME	164,120	149,330	135,130	121,500	108,700	96,870	85,880	66,830	51,960
HCM0152M/ACD	3DS3R17ME	180,910	165,290	150,170	135,810	122,090	109,260	97,160	75,610	57,200
HCM0202M/ACD	4DBNR20ME	234,800	212,720	191,560	171,890	153,390	135,710	118,660	85,270	51,460
HCM0252M/ACD	4DHNR22ME	-	-	214,460	192,720	172,070	152,880	135,220	104,740	80,400
HCM0302M/ACD	4DJNR28ME	-	-	244,300	220,870	198,920	178,220	158,960	123,890	92,670
HCM0352M/ACD	6DHNR35ME	374,070	336,770	302,770	271,610	243,550	218,000	194,490	151,300	108,310
HCM0402M/ACD	6DJNR40ME	469,880	417,410	369,660	328,050	292,550	262,110	235,270	185,820	130,420

R-407C		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	89,820	80,260	71,370	63,190	55,790	49,180	43,250	33,480	26,360
HCM0078M/ACD	2DA3R89KE	100,720	90,270	80,470	71,410	63,090	55,580	48,830	37,400	28,610
HCM0082M/ACD	3DA3R10ME	117,810	106,860	96,340	86,420	77,120	68,510	60,490	46,570	35,190
HCM0102M/ACD	3DB3R12ME	137,540	125,130	113,180	101,930	91,320	81,460	-	56,130	42,740
HCM0122M/ACD	3DF3R15ME	158,560	144,350	130,540	117,510	105,170	93,620	82,900	64,130	49,250
HCM0152M/ACD	3DS3R17ME	175,030	160,020	145,440	131,570	118,260	105,780	93,900	72,610	54,100
HCM0202M/ACD	4DBNR20ME	225,760	204,380	184,190	164,970	147,160	130,190	113,810	81,870	49,640
HCM0252M/ACD	4DHNR22ME	-	-	205,570	184,760	165,340	147,060	130,260	100,780	76,650
HCM0302M/ACD	4DJNR28ME	-	-	234,560	212,540	191,820	172,120	153,740	119,900	88,820
HCM0352M/ACD	6DHNR35ME	359,820	324,290	291,950	262,200	235,390	210,730	187,970	145,620	102,680
HCM0402M/ACD	6DJNR40ME	443,040	393,840	347,980	310,610	277,360	248,820	224,400	179,510	128,650

R-407C		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M/ACD	2DL3R78KE	86,940	77,620	68,940	61,010	53,830	47,430	41,720	32,390	25,720
HCM0078M/ACD	2DA3R89KE	97,510	87,330	77,790	68,940	60,860	53,570	46,970	35,850	27,290
HCM0082M/ACD	3DA3R10ME	113,840	103,300	93,140	83,530	74,450	66,030	58,180	44,340	32,830
HCM0102M/ACD	3DB3R12ME	133,120	121,050	109,500	98,590	88,260	78,610	69,560	53,520	40,000
HCM0122M/ACD	3DF3R15ME	153,030	139,340	126,150	113,410	101,430	90,180	79,660	61,100	46,090
HCM0152M/ACD	3DS3R17ME	169,190	154,750	140,710	127,260	114,240	102,080	90,460	69,310	-
HCM0202M/ACD	4DBNR20ME	217,060	195,910	176,540	158,200	141,130	124,830	109,090	78,680	48,080
HCM0252M/ACD	4DHNR22ME	-	-	196,670	176,920	158,580	141,380	125,370	96,850	72,870
HCM0302M/ACD	4DJNR28ME	-	-	225,190	204,530	185,030	166,390	148,860	116,050	85,100
HCM0352M/ACD	6DHNR35ME	345,390	311,650	280,870	252,360	226,730	203,150	181,190	139,600	96,740
HCM0402M/ACD	6DJNR40ME	415,560	369,470	326,620	291,740	261,050	235,810	213,660	174,080	128,590

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

PERFORMANCE DATA – R-407C

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 29 to confirm DOE compliance per model

R-407C		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	40°F	35°F	30°F	25°F	20°F	15°F	10°F	0°F	-10°F
HCM0077M\ACD	2DL3R78KE	81,330	72,490	64,290	56,830	50,110	44,130	38,860	30,410	24,630
HCM0078M\ACD	2DA3R89KE	91,300	81,630	72,590	64,200	56,570	49,630	43,360	32,810	24,710
HCM0082M\ACD	3DA3R10ME	106,110	96,220	86,690	77,600	68,960	60,800	53,180	39,350	27,500
HCM0102M\ACD	3DB3R12ME	123,950	112,720	101,930	91,560	81,680	72,300	63,490	47,480	33,580
HCM0122M\ACD	3DF3R15ME	141,910	129,110	116,760	104,780	93,460	82,690	72,420	54,210	38,840
HCM0152M\ACD	3DS3R17ME	-	144,180	131,200	118,410	106,120	94,320	83,140	62,080	43,030
HCM0202M\ACD	4DBNR20ME	199,470	180,200	162,060	145,370	129,600	114,750	100,440	73,070	45,790
HCM0252M\ACD	4DHNR22ME	-	-	179,930	162,610	146,310	130,810	116,200	89,360	65,570
HCM0302M\ACD	4DJNR28ME	-	-	207,490	189,650	172,310	155,730	139,800	108,930	78,060
HCM0352M\ACD	6DHNR35ME	316,320	285,980	258,070	232,450	208,770	187,160	166,550	126,620	84,110
HCM0402M\ACD	6DJNR40ME	359,520	319,210	283,570	252,960	229,120	209,420	193,270	166,490	134,800

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

HEAD FAN REQUIRED

PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-404A/R-507A		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	60,020	53,460	47,380	41,780	36,650	-	27,740	23,890	20,420
HCM0077L/ACD	3DB3F33KE	70,600	62,890	55,800	49,280	43,300	37,830	32,850	28,260	24,050
HCM0092L/ACD	3DF3F40KE	85,110	75,880	67,340	59,430	52,140	45,490	39,440	33,930	28,920
HCM0102L/ACD	3DS3F46KE	94,090	84,500	75,510	67,100	59,280	52,040	45,400	39,270	33,620
HCM0122L/ACD	4DBNF54KE	106,220	94,990	84,790	75,340	66,630	58,520	50,870	43,460	36,190
HCM0152L/ACD	4DHNF63KE	123,370	110,980	99,490	88,840	78,860	69,510	60,670	52,150	43,820
HCM0222L/ACD	4DJNF76KE	144,000	130,640	117,990	105,670	94,020	82,970	72,350	62,100	52,140
HCM0272L/ACD	6DHNF93KE	176,470	160,400	144,550	129,090	113,860	99,530	86,170	73,740	62,470
HCM0302L/ACD	6DJNF11ME	190,540	173,350	156,970	140,890	125,520	110,550	96,400	83,190	70,800

R-404A/R-507A		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	57,600	51,310	45,480	40,090	35,130	-	26,500	22,730	19,320
HCM0077L/ACD	3DB3F33KE	67,790	60,420	53,640	47,370	41,600	36,320	31,470	26,980	22,840
HCM0092L/ACD	3DF3F40KE	81,790	72,940	64,740	57,110	50,080	43,640	37,770	32,410	27,500
HCM0102L/ACD	3DS3F46KE	90,570	81,350	72,720	64,630	57,090	50,100	43,660	37,680	32,170
HCM0122L/ACD	4DBNF54KE	101,820	91,100	81,330	72,230	63,790	55,860	48,310	40,980	33,710
HCM0152L/ACD	4DHNF63KE	118,060	106,160	95,070	84,780	75,120	66,040	57,460	49,170	41,050
HCM0222L/ACD	4DJNF76KE	137,670	124,880	112,690	100,880	89,600	78,890	68,560	58,560	48,790
HCM0272L/ACD	6DHNF93KE	168,430	153,170	138,000	123,150	108,560	94,570	81,610	69,470	58,340
HCM0302L/ACD	6DJNF11ME	-	164,940	149,460	134,170	119,490	104,990	91,410	78,590	66,480

R-404A/R-507A		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	55,190	49,150	43,570	38,380	33,610	29,210	25,210	21,520	18,150
HCM0077L/ACD	3DB3F33KE	64,990	57,970	51,470	45,450	39,890	34,780	30,060	25,670	21,580
HCM0092L/ACD	3DF3F40KE	78,480	70,000	62,130	54,790	48,020	41,790	36,090	30,870	26,080
HCM0102L/ACD	3DS3F46KE	86,920	78,110	69,830	62,060	54,800	48,030	41,770	35,960	30,560
HCM0122L/ACD	4DBNF54KE	97,390	87,230	77,820	69,050	60,870	53,090	45,680	38,400	31,140
HCM0152L/ACD	4DHNF63KE	113,020	101,480	90,810	80,890	71,540	62,750	54,410	46,320	38,450
HCM0222L/ACD	4DJNF76KE	131,450	119,220	107,570	96,110	85,290	74,820	64,740	54,890	45,340
HCM0272L/ACD	6DHNF93KE	-	145,830	131,400	117,170	103,190	89,580	77,020	65,200	54,260
HCM0302L/ACD	6DJNF11ME	-	-	-	127,450	113,410	99,570	86,390	73,970	62,150

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING REQUIRED

PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-404A/R-507A		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	50,290	44,790	39,660	34,860	30,400	26,270	22,460	18,920	15,640
HCM0077L/ACD	3DB3F33KE	59,430	53,050	47,130	41,580	36,420	31,630	27,160	22,960	18,980
HCM0092L/ACD	3DF3F40KE	71,790	64,070	56,870	50,120	43,850	38,030	32,700	27,760	23,210
HCM0102L/ACD	3DS3F46KE	79,300	71,280	63,730	56,580	49,830	43,530	37,650	32,150	27,000
HCM0122L/ACD	4DBNF54KE	88,350	79,120	70,510	62,390	54,690	47,240	40,050	32,930	25,670
HCM0152L/ACD	4DHNF63KE	-	-	82,730	73,580	64,910	56,700	48,870	41,250	33,790
HCM0222L/ACD	4DJNF76KE	-	-	-	-	76,580	66,660	56,960	47,500	38,280
HCM0272L/ACD	6DHNF93KE	-	-	-	-	-	79,670	67,790	56,440	46,100
HCM0302L/ACD	6DJNF11ME	-	-	-	-	-	-	-	64,790	53,420

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING REQUIRED

PERFORMANCE DATA – R-448A/R-449A

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-448A/R-449A		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	54,260	47,320	-	35,440	30,440	26,040	22,190	18,830	15,940
HCM0077L/ACD	3DB3F33KE	64,670	56,790	49,770	43,440	37,780	32,650	27,990	23,630	19,470
HCM0092L/ACD	3DF3F40KE	79,460	69,370	60,340	52,220	44,940	-	32,610	27,340	22,490
HCM0102L/ACD	3DS3F46KE	86,720	75,720	65,880	57,020	49,090	41,960	35,590	29,800	24,520
HCM0122L/ACD	4DBNF54KE	99,230	87,580	76,720	66,480	57,040	48,400	40,640	33,740	27,800
HCM0152L/ACD	4DHNF63KE	112,320	99,930	88,280	77,360	67,210	57,960	49,690	42,370	36,190
HCM0222L/ACD	4DJNF76KE	139,370	122,450	107,440	93,780	81,560	70,270	59,690	49,330	-
HCM0272L/ACD	6DHNF93KE	161,450	142,480	125,060	108,740	93,900	80,360	67,950	56,480	45,800
HCM0302L/ACD	6DJNF11ME	191,140	169,280	148,920	129,940	112,470	96,270	80,980	67,020	53,660

R-448A/R-449A		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	52,270	45,480	-	33,900	29,010	24,710	20,950	17,650	14,820
HCM0077L/ACD	3DB3F33KE	62,390	54,650	47,760	41,530	35,980	30,910	26,330	22,030	17,930
HCM0092L/ACD	3DF3F40KE	76,470	66,640	57,830	49,910	42,760	36,400	30,650	25,440	20,640
HCM0102L/ACD	3DS3F46KE	83,420	72,710	63,120	54,460	46,690	39,720	33,430	27,730	22,480
HCM0122L/ACD	4DBNF54KE	95,230	84,020	73,420	63,470	54,270	45,820	-	31,440	25,590
HCM0152L/ACD	4DHNF63KE	107,890	95,900	84,620	74,060	64,220	55,230	47,190	40,050	33,990
HCM0222L/ACD	4DJNF76KE	133,880	117,420	102,810	89,420	77,480	66,400	56,010	45,790	35,610
HCM0272L/ACD	6DHNF93KE	154,650	136,280	119,370	103,600	88,980	75,760	63,590	52,300	41,740
HCM0302L/ACD	6DJNF11ME	182,500	161,400	141,690	123,250	106,240	90,210	75,560	61,690	48,480

R-448A/R-449A		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	50,220	43,600	37,660	32,300	27,550	23,340	19,660	16,430	13,650
HCM0077L/ACD	3DB3F33KE	60,100	52,500	45,710	39,600	34,130	29,140	24,620	20,390	16,340
HCM0092L/ACD	3DF3F40KE	73,420	63,850	55,270	47,520	40,520	34,290	28,610	23,470	18,690
HCM0102L/ACD	3DS3F46KE	80,060	69,640	60,280	51,830	44,200	-	31,190	25,570	20,360
HCM0122L/ACD	4DBNF54KE	91,110	80,270	69,990	60,320	51,370	43,090	35,660	29,050	23,260
HCM0152L/ACD	4DHNF63KE	103,280	91,790	80,890	70,690	61,150	52,440	44,600	-	31,740
HCM0222L/ACD	4DJNF76KE	128,360	112,220	98,000	85,010	73,340	62,480	52,190	42,180	32,180
HCM0272L/ACD	6DHNF93KE	147,610	129,820	113,420	98,070	83,780	70,900	58,960	47,840	-
HCM0302L/ACD	6DJNF11ME	173,600	153,250	134,170	116,280	99,470	84,000	69,690	56,040	42,880

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

PERFORMANCE DATA – R-448A/R-449A

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-448A/R-449A		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	45,980	-	34,080	29,000	24,480	20,470	16,950	13,870	11,220
HCM0077L/ACD	3DB3F33KE	55,510	48,180	41,610	-	30,370	25,550	21,150	17,010	13,080
HCM0092L/ACD	3DF3F40KE	67,160	58,110	49,960	42,550	-	29,840	24,410	19,380	14,670
HCM0102L/ACD	3DS3F46KE	73,170	63,320	54,440	46,360	39,090	32,540	26,560	21,070	15,930
HCM0122L/ACD	4DBNF54KE	82,610	72,410	62,760	53,660	45,120	37,330	30,220	23,840	18,180
HCM0152L/ACD	4DHNF63KE	94,150	83,480	73,400	63,810	54,880	46,680	39,260	32,750	27,120
HCM0222L/ACD	4DJNF76KE	117,240	102,200	88,490	76,220	64,960	54,510	44,540	-	25,140
HCM0272L/ACD	6DHNF93KE	132,820	116,200	100,770	86,140	72,830	60,410	48,790	37,940	-
HCM0302L/ACD	6DJNF11ME	-	-	118,390	101,800	85,930	70,990	57,120	43,640	-

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

PERFORMANCE DATA – R-407A/R-407F

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-407A/R-407F		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	55,800	48,670	42,260	36,510	31,320	26,640	22,370	18,400	14,670
HCM0077L/ACD	3DB3F33KE	66,650	58,610	51,410	44,860	38,900	33,450	28,360	23,500	18,750
HCM0092L/ACD	3DF3F40KE	81,670	71,310	62,020	53,620	46,010	39,120	32,840	27,000	21,530
HCM0102L/ACD	3DS3F46KE	88,990	77,750	67,630	58,490	50,230	42,690	35,830	29,460	23,480
HCM0122L/ACD	4DBNF54KE	101,710	89,990	78,960	68,480	58,670	49,580	41,200	33,590	26,760
HCM0152L/ACD	4DHNF63KE	114,730	102,360	90,610	79,500	69,020	59,240	50,250	41,970	34,470
HCM0222L/ACD	4DJNF76KE	143,210	126,110	110,360	95,810	82,820	71,220	61,210	52,770	45,990
HCM0272L/ACD	6DHNF93KE	163,030	144,440	127,300	110,890	95,900	81,720	68,550	55,820	43,370
HCM0302L/ACD	6DJNF11ME	191,800	170,680	150,780	132,010	114,450	97,760	81,680	66,570	51,740

R-407A/R-407F		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	53,560	46,640	40,410	34,820	29,760	25,190	21,010	17,110	13,450
HCM0077L/ACD	3DB3F33KE	64,090	56,240	49,190	42,780	36,950	31,600	26,610	21,860	17,200
HCM0092L/ACD	3DF3F40KE	78,340	68,300	59,270	51,100	43,680	36,940	30,810	25,110	19,730
HCM0102L/ACD	3DS3F46KE	85,320	74,420	64,610	55,720	47,670	40,310	33,600	27,350	21,490
HCM0122L/ACD	4DBNF54KE	97,340	86,080	75,380	65,210	55,710	46,830	38,700	31,270	24,620
HCM0152L/ACD	4DHNF63KE	109,890	97,930	86,620	75,920	65,790	56,330	47,600	39,570	32,260
HCM0222L/ACD	4DJNF76KE	136,810	120,420	105,220	91,120	78,620	67,550	58,080	50,200	43,990
HCM0272L/ACD	6DHNF93KE	155,740	137,790	121,160	105,330	90,650	76,990	64,030	51,550	39,320
HCM0302L/ACD	6DJNF11ME	183,140	162,310	143,100	124,880	107,860	91,440	76,140	61,230	46,680

R-407A/R-407F		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	51,300	44,580	38,540	33,100	28,170	23,710	19,620	15,800	12,210
HCM0077L/ACD	3DB3F33KE	61,550	53,860	46,960	40,690	34,980	29,730	24,860	20,180	15,610
HCM0092L/ACD	3DF3F40KE	74,960	65,230	56,470	48,530	41,310	34,740	28,740	23,160	17,870
HCM0102L/ACD	3DS3F46KE	81,620	71,060	61,530	52,890	45,030	37,880	31,330	25,200	19,460
HCM0122L/ACD	4DBNF54KE	92,840	82,000	71,650	61,820	52,600	43,970	36,050	28,810	22,320
HCM0152L/ACD	4DHNF63KE	105,000	93,470	82,570	72,280	62,490	53,350	44,890	37,060	29,970
HCM0222L/ACD	4DJNF76KE	130,660	114,610	99,810	86,320	74,370	63,810	54,860	47,520	41,870
HCM0272L/ACD	6DHNF93KE	148,220	130,860	114,830	99,390	85,170	71,890	59,230	46,920	34,950
HCM0302L/ACD	6DJNF11ME	173,830	153,670	135,150	117,550	101,000	85,000	70,110	55,560	41,150

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

PERFORMANCE DATA – R-407A/R-407F

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-407A/R-407F		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L^ACD	3DA3F28KE	46,690	40,370	34,710	29,570	24,920	20,660	16,770	13,100	-
HCM0077L^ACD	3DB3F33KE	56,470	49,120	42,500	36,500	31,010	25,950	21,260	16,760	12,350
HCM0092L^ACD	3DF3F40KE	68,110	59,000	50,770	43,260	36,450	30,220	24,510	19,160	14,050
HCM0102L^ACD	3DS3F46KE	74,090	64,220	55,270	47,140	39,700	32,910	26,660	20,840	15,270
HCM0122L^ACD	4DBNF54KE	83,630	73,500	63,860	54,680	45,980	37,900	30,420	23,580	17,340
HCM0152L^ACD	4DHNF63KE	94,960	84,460	74,490	64,870	55,770	47,230	39,310	31,950	25,210
HCM0222L^ACD	4DJNF76KE	117,750	102,660	88,950	76,640	65,600	56,070	48,140	41,840	37,210
HCM0272L^ACD	6DHNF93KE	132,580	116,490	101,440	86,980	73,680	60,970	48,890	37,030	25,500
HCM0302L^ACD	6DJNF11ME	-	-	118,550	102,420	86,610	71,560	57,280	43,140	29,370

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

PERFORMANCE DATA – R-407C

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-407C		Capacity BTUH @ 90°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	47,570	41,460	35,870	30,790	26,180	22,040	18,320	14,990	-
HCM0077L/ACD	3DB3F33KE	56,850	49,950	43,630	37,850	32,550	27,720	23,330	19,300	15,600
HCM0092L/ACD	3DF3F40KE	68,280	60,200	52,600	45,480	38,870	32,710	27,080	21,860	17,130
HCM0102L/ACD	3DS3F46KE	74,050	65,010	56,660	-	41,780	35,270	29,320	23,910	18,980
HCM0122L/ACD	4DBNF54KE	87,960	76,680	66,370	56,930	-	40,640	33,690	27,460	21,840
HCM0152L/ACD	4DHNF63KE	99,750	87,480	76,390	66,230	56,980	-	41,110	34,320	28,090
HCM0222L/ACD	4DJNF76KE	115,920	101,080	88,050	76,610	66,490	57,450	-	41,350	33,710
HCM0272L/ACD	6DHNF93KE	143,140	126,640	110,560	95,320	80,880	67,680	55,660	44,980	35,980
HCM0302L/ACD	6DJNF11ME	165,390	146,430	128,330	110,770	94,430	79,110	65,590	53,270	42,800

R-407C		Capacity BTUH @ 95°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	45,880	39,930	34,470	29,510	25,000	20,920	17,270	14,000	-
HCM0077L/ACD	3DB3F33KE	54,840	48,070	41,840	36,170	30,960	26,240	21,920	17,990	14,360
HCM0092L/ACD	3DF3F40KE	66,110	58,010	50,480	43,440	36,940	30,920	25,460	20,480	15,990
HCM0102L/ACD	3DS3F46KE	71,610	62,710	54,470	46,900	39,900	33,520	27,710	22,440	17,670
HCM0122L/ACD	4DBNF54KE	84,670	73,610	63,530	54,270	45,900	38,370	31,550	25,440	19,900
HCM0152L/ACD	4DHNF63KE	95,950	84,000	73,210	63,310	54,280	46,150	38,840	32,180	26,090
HCM0222L/ACD	4DJNF76KE	111,880	97,510	84,890	73,810	63,960	55,150	47,070	39,350	31,820
HCM0272L/ACD	6DHNF93KE	137,800	121,660	105,940	90,930	76,840	63,730	51,730	41,230	32,200
HCM0302L/ACD	6DJNF11ME	158,710	140,260	122,650	105,480	89,350	74,580	61,020	48,950	38,450

R-407C		Capacity BTUH @ 100°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	44,160	38,350	33,020	28,170	23,740	19,750	16,160	-	-
HCM0077L/ACD	3DB3F33KE	52,800	-	40,050	34,460	29,330	24,690	20,460	16,570	12,980
HCM0092L/ACD	3DF3F40KE	63,860	55,780	48,290	41,330	34,940	29,060	23,790	19,020	14,760
HCM0102L/ACD	3DS3F46KE	69,050	60,300	52,190	44,730	37,920	31,660	26,040	20,900	16,310
HCM0122L/ACD	4DBNF54KE	81,180	70,410	60,520	51,510	43,320	35,970	29,280	23,270	17,860
HCM0152L/ACD	4DHNF63KE	92,050	80,490	69,930	60,290	51,490	43,550	36,430	29,900	24,000
HCM0222L/ACD	4DJNF76KE	107,600	93,750	81,550	70,830	61,260	52,630	44,730	37,210	29,730
HCM0272L/ACD	6DHNF93KE	132,380	116,580	101,280	86,420	72,570	59,510	47,720	37,170	28,150
HCM0302L/ACD	6DJNF11ME	151,990	134,040	116,890	100,090	84,260	69,800	56,380	44,540	34,080

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

PERFORMANCE DATA – R-407C

Low Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 30 to confirm DOE compliance per model

R-407C		Capacity BTUH @ 110°F Ambient by SST								
Model	Compressor	0°F	-5°F	-10°F	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F
HCM0062L/ACD	3DA3F28KE	40,510	34,950	29,900	25,220	20,980	17,130	13,640	-	-
HCM0077L/ACD	3DB3F33KE	48,720	42,250	36,350	30,900	25,940	21,390	17,280	13,480	-
HCM0092L/ACD	3DF3F40KE	59,060	51,030	-	36,910	30,710	25,160	20,200	15,820	12,050
HCM0102L/ACD	3DS3F46KE	63,410	54,940	47,190	40,060	33,530	27,600	22,270	17,460	13,170
HCM0122L/ACD	4DBNF54KE	73,780	63,560	54,140	45,620	37,810	30,690	24,360	18,570	13,310
HCM0152L/ACD	4DHNF63KE	83,930	73,060	63,070	53,870	45,570	38,080	31,290	25,030	19,380
HCM0222L/ACD	4DJNF76KE	98,190	85,310	74,080	64,000	54,930	46,770	39,260	32,000	24,730
HCM0272L/ACD	6DHNF93KE	121,190	106,250	91,460	77,290	63,660	50,930	39,440	28,920	19,910
HCM0302L/ACD	6DJNF11ME	-	121,460	105,170	89,120	74,010	59,750	46,930	35,180	24,720

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

DEMAND COOLING IS REQUIRED FOR ALL APPLICATIONS

UNIT SPECIFICATIONS

Medium & Low Temperature Models - Discus™ Compressors

Please consult AWEF table on pages 29 and 30 to confirm DOE compliance per model

Model	Compressor	Refrigerant Line Connections (OD)		Rec. Capacity @90% full (lbs)	Condenser Fan Data		Dimensions (In.)			Net Wt. (lbs.)
		Liquid	Suction		No. Fans	Dia.	Length	Width	Height	
HCM0062L/ACD	3DA3F28KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0077L/ACD	3DB3F33KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0092L/ACD	3DF3F40KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0102L/ACD	3DS3F46KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0122L/ACD	4DBNF54KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0152L/ACD	4DHNF63KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0222L/ACD	4DJNF76KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,120
HCM0272L/ACD	6DHNF93KE	1-1/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,180
HCM0302L/ACD	6DJNF11ME	1-1/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,200
HCM0077M/ACD	2DL3R78KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0078M/ACD	2DA3R89KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0082M/ACD	3DA3R10ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0102M/ACD	3DB3R12ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0122M/ACD	3DF3R15ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0152M/ACD	3DS3R17ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
HCM0202M/ACD	4DBNR20ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,860
HCM0252M/ACD	4DHNR22ME	1-1/8	2-1/8	123	3	30"	225.7	49.6	54.6	1,950
HCM0302M/ACD	4DJNR28ME	1-1/8	2-1/8	188	3	30"	225.7	49.6	54.6	1,950
HCM0352M/ACD	6DHNR35ME	1-1/8	2-1/8	188	3	30"	225.7	49.6	54.6	2,800
HCM0402M*ACD	6DJNR40ME	1-1/8	2-1/8	188	4	30"	280.7	49.6	54.6	3,000

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

ELECTRICAL DATA

Medium Temperature Models - Mohave 208-230V

Please consult AWEF table on page 29 to confirm DOE compliance per model

								Remote Loads			
								Evap Powered From CU			
Model	Compressor	Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0077M^ACD	2DL3R78KE	28.3	169.0	2	7	42.4	70	7.8	7.8	50.2	70.0
HCM0078M^ACD	2DA3R89KE	28.7	169.0	2	7	42.9	70	7.8	7.8	50.7	70.0
HCM0082M^ACD	3DA3R10ME	36.8	215.0	2	7	53.0	80	10.4	10.4	63.4	100.0
HCM0102M^ACD	3DB3R12ME	39.1	215.0	2	7	55.9	90	13.8	13.8	69.7	100.0
HCM0122M^ACD	3DF3R15ME	43.2	275.0	2	7	61.0	100	13.8	13.8	74.8	110.0
HCM0152M^ACD	3DS3R17ME	53.5	275.0	2	7	73.9	125	19.8	19.8	93.7	125.0
HCM0202M^ACD	4DBNR20ME	64.7	374.0	2	14	94.9	150	21	21	115.9	175.0
HCM0252M^ACD	4DHNR22ME	66.8	428.0	3	10.5	94.0	150	27.6	27.6	121.6	175.0
HCM0302M^ACD	4DJNR28ME	94.6	470.0	3	10.5	128.8	200	39.6	39.6	168.4	250.0
HCM0352M^ACD	6DHNR35ME	112.3	565.0	3	19.8	160.2	250	42	42	202.2	300.0
HCM0402M*ACD	6DJNR40ME	128.2	594.0	4	26.4	186.7	300	56	56	242.7	350.0

ELECTRICAL DATA

Medium Temperature Models - Mohave 460V

Please consult AWEF table on page 29 to confirm DOE compliance per model

								Remote Loads			
								Evap Powered From CU			
Model	Compressor	Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0077M^ACD	2DL3R78KE	12.4	85.0	2	3.4	20.0	30	3	3	21.9	30.0
HCM0078M^ACD	2DA3R89KE	12.6	85.0	2	3.4	20.0	30	3	3	22.2	30.0
HCM0082M^ACD	3DA3R10ME	17.9	106.0	2	3.4	25.8	40	4.7	4.7	30.5	45.0
HCM0102M^ACD	3DB3R12ME	17.9	106.0	2	3.4	25.8	40	6.9	6.9	32.7	50.0
HCM0122M^ACD	3DF3R15ME	21.2	138.0	2	3.4	29.8	50	6.9	6.9	36.7	50.0
HCM0152M^ACD	3DS3R17ME	26.0	138.0	2	3.4	35.9	60	9.9	9.9	45.8	70.0
HCM0202M^ACD	4DBNR20ME	32.4	187.0	2	7	47.5	70	10.5	10.5	58.0	90.0
HCM0252M^ACD	4DHNR22ME	33.4	214.0	3	5.1	46.8	80	13.8	13.8	60.6	90.0
HCM0302M^ACD	4DJNR28ME	47.3	235.0	3	5.1	64.2	110	19.8	19.8	84.0	125.0
HCM0352M^ACD	6DHNR35ME	56.2	283.0	3	9.9	80.1	125	21	21	101.1	150.0
HCM0402M*ACD	6DJNR40ME	64.1	297.0	4	13.2	93.3	150	28	28	121.3	175.0

Notes:

^ C = 208-230/3/60, D = 460/3/60

* K = 230/3/60

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

ELECTRICAL DATA

Medium Temperature Models - Mohave 575V

Please consult AWEF table on page 29 to confirm DOE compliance per model

								Remote Loads			
								Evap Powered From CU			
Model	Compressor	Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0077MEACD	2DL3R78KE	11.9	67.0	2	2.7	20.0	25	1.5	1.5	20.0	30.0
HCM0078MEACD	2DA3R89KE	11.9	67.0	2	2.7	20.0	25	1.5	1.5	20.0	30.0
HCM0082MEACD	3DA3R10ME	14.7	84.0	2	2.7	21.1	35	2.4	2.4	23.5	35.0
HCM0102MEACD	3DB3R12ME	14.8	84.0	2	2.7	21.2	35	3.5	3.5	24.7	35.0
HCM0152MEACD	3DS3R17ME	21.2	110.0	2	2.7	29.2	50	5.0	5.0	34.1	50.0
HCM0202MEACD	4DBNR20ME	28.2	135.0	2	5.6	40.9	60	5.3	5.3	46.1	70.0
HCM0252MEACD	4DHNR22ME	29.9	172.0	3	4.1	41.4	70	6.9	6.9	48.3	70.0
HCM0302MEACD	4DJNR28ME	39.6	200.0	3	4.1	53.6	90	9.9	9.9	63.5	100.0
HCM0352MEACD	6DHNR35ME	36.5	230.0	3	7.9	53.6	90	10.5	10.5	64.1	100.0
HCM0402MEACD	6DJNR40ME	46.2	245.0	4	10.6	68.3	110	14.0	14.0	82.3	125.0

Notes:

E = 575/3/60

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

ELECTRICAL DATA

Low Temperature Models - Mohave 208-230V

Please consult AWEF table on page 30 to confirm DOE compliance per model

								Remote Loads			
								Evap Powered From CU			
Model	Compressor	Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0062L^ACD	3DA3F28KE	24.0	150.0	2	7	37.0	60	12	12	49.0	70.0
HCM0077L^ACD	3DB3F33KE	27.6	161.0	2	7	41.5	60	18	18	59.5	80.0
HCM0092L^ACD	3DF3F40KE	33.2	215.0	2	7	48.5	80	24	24	72.5	100.0
HCM0102L^ACD	3DS3F46KE	37.2	215.0	2	7	53.5	90	24	24	77.5	110.0
HCM0122L^ACD	4DBNF54KE	46.0	220.0	2	7	64.5	110	24	24	88.5	125.0
HCM0152L^ACD	4DHNF63KE	47.2	278.0	2	7	66.0	110	24.6	24.6	90.6	125.0
HCM0222L^ACD	4DJNF76KE	57.7	374.0	2	7	79.1	125	24.6	24.6	103.7	150.0
HCM0272L^ACD	6DHNF93KE	72.4	450.0	2	7	97.5	150	24.6	24.6	122.1	175.0
HCM0302L^ACD	6DJNF11ME	85.8	470.0	2	7	114.2	175	24.6	24.6	138.8	200.0

ELECTRICAL DATA

Low Temperature Models - Mohave 460V

Please consult AWEF table on page 30 to confirm DOE compliance per model

								Remote Loads			
								Evap Powered From CU			
Model	Compressor	Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0062L^ACD	3DA3F28KE	10.8	77.0	2	3.4	20.0	25	6	6	22.9	30.0
HCM0077L^ACD	3DB3F33KE	14.1	83.0	2	3.4	21.0	35	9	9	30.0	40.0
HCM0092L^ACD	3DF3F40KE	15.0	106.0	2	3.4	22.2	35	12	12	34.2	45.0
HCM0102L^ACD	3DS3F46KE	16.7	106.0	2	3.4	24.2	40	12	12	36.2	50.0
HCM0122L^ACD	4DBNF54KE	23.0	110.0	2	3.4	32.2	50	12	12	44.2	60.0
HCM0152L^ACD	4DHNF63KE	23.6	139.0	2	3.4	32.9	50	12.3	12.3	45.2	60.0
HCM0222L^ACD	4DJNF76KE	28.8	187.0	2	3.4	39.5	60	12.3	12.3	51.8	80.0
HCM0272L^ACD	6DHNF93KE	36.2	225.0	2	3.4	48.7	80	12.3	12.3	61.0	90.0
HCM0302L^ACD	6DJNF11ME	42.9	235.0	2	3.4	57.0	90	12.3	12.3	69.3	110.0

Notes:

^ C = 208-230/3/60, D = 460/3/60

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

ELECTRICAL DATA

Low Temperature Models - Mohave 575V

Please consult AWEF table on page 30 to confirm DOE compliance per model

Model	Compressor	Remote Loads									
		Evap Powered From CU									
		Compressor		Condenser		Independent Power		Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
HCM0062LEACD	3DA3F28KE	9.4	62.0	2	2.7	15.0	20	3.0	3.0	20.0	25.0
HCM0077LEACD	3DB3F33KE	9.9	67.0	2	2.7	20.0	20	4.5	4.5	20.0	25.0
HCM0092LEACD	3DF3F40KE	14.1	84.0	2	2.7	20.3	30	6.0	6.0	26.3	40.0
HCM0102LEACD	3DS3F46KE	14.6	84.0	2	2.7	20.9	35	6.0	6.0	26.9	40.0
HCM0122LEACD	4DBNF54KE	15.6	106.0	2	2.7	22.2	35	6.0	6.0	28.2	40.0
HCM0152LEACD	4DHNF63KE	18.8	113.0	2	2.7	26.2	40	6.2	6.2	32.4	50.0
HCM0222LEACD	4DJNF76KE	26.1	135.0	2	2.7	35.3	60	6.2	6.2	41.5	60.0
HCM0272LEACD	6DHNF93KE	29.2	172.0	2	2.7	39.2	60	6.2	6.2	45.4	70.0
HCM0302LEACD	6DJNF11ME	35.5	200.0	2	5.6	50.0	80	6.2	6.2	56.2	90.0

Notes:

E = 575/3/60

MCA = Minimum Circuit Ampacity

MOP = Maximum Overcurrent Protection

AWEF DATA – MEDIUM TEMPERATURE

Discus™ Compressor Models - Outdoor

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in cooler applications

Model	Outdoor					
	R-404A	R-507A	R-448A/R-449A	R-407A	R-407C	R-407F
HCM0077M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0078M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0082M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0102M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0122M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0152M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0202M^ACD	-	-	-	-	-	7.60
HCM0252M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0302M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
HCM0352M^ACD	7.60	7.60	7.60	-	-	7.60
HCM0402M*ACD	-	-	-	-	-	7.60

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

* K = 230/3/60

- = model is not DOE AWEF compliant

AWEF DATA – LOW TEMPERATURE

Discus™ Compressor Models - Outdoor

If model has a numerical value in the table below, the following statement applies:

This refrigeration system is designed and certified for use in walk-in freezer applications

Model	Outdoor					
	R-404A	R-507A	R-448A/R-449A	R-407A	R-407C	R-407F
HCM0062L^ACD	3.15	3.15	3.15	3.15	-	3.15
HCM0077L^ACD	3.15	3.15	3.15	3.15	-	3.15
HCM0092L^ACD	3.15	3.15	3.15	3.15	3.15	3.15
HCM0102L^ACD	3.15	3.15	3.15	3.15	3.15	3.15
HCM0122L^ACD	3.15	3.15	-	3.15	3.15	3.15
HCM0152L^ACD	3.15	3.15	-	-	-	3.15
HCM0222L^ACD	3.15	3.15	-	-	3.15	3.15
HCM0272L^ACD	-	-	-	-	-	3.15
HCM0302L^ACD	-	-	-	-	-	-

Notes:

^ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

- = model is not DOE AWEF compliant

REFERENCE DIMENSIONS SHOWN

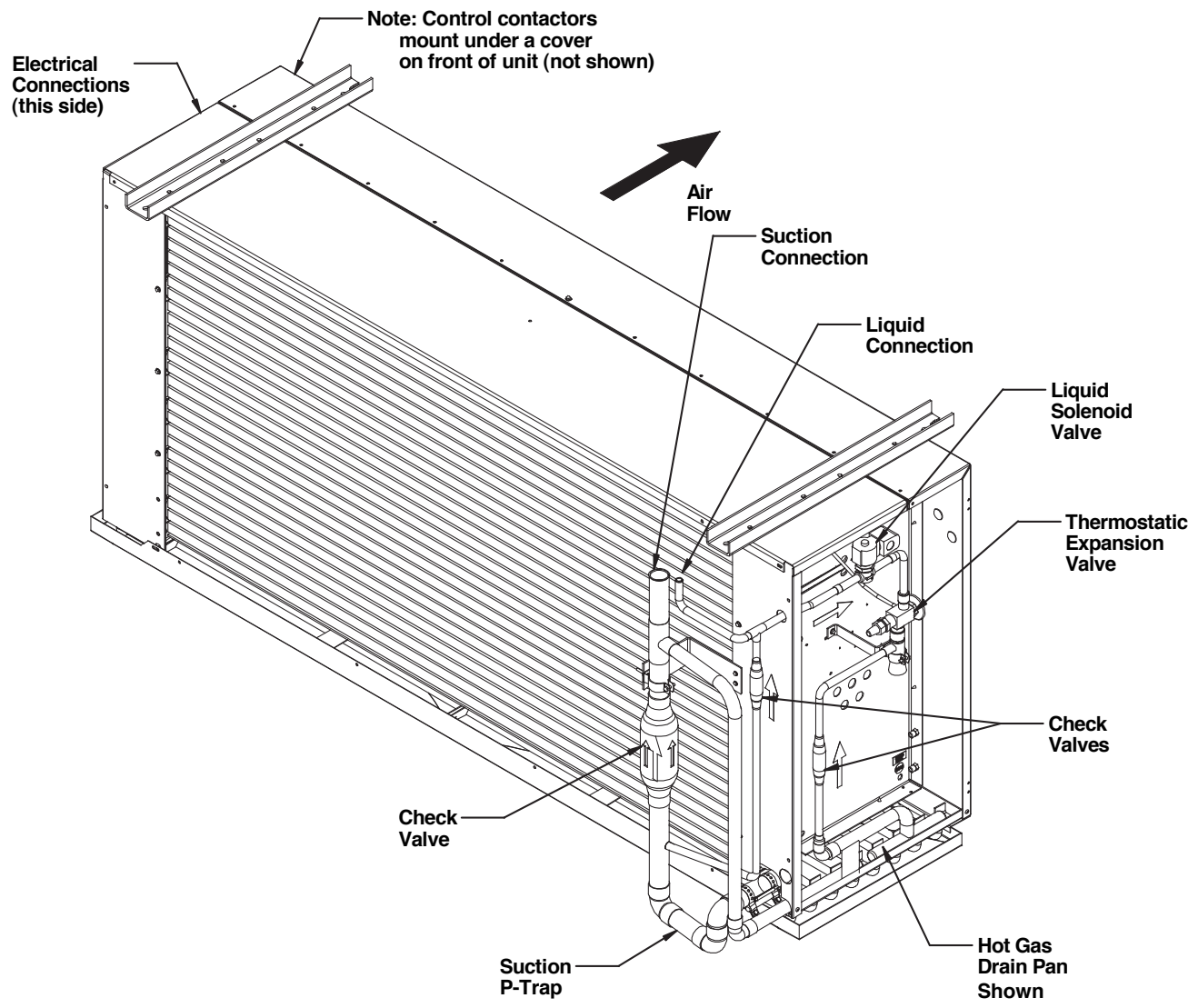


REFERENCE DIMENSIONS SHOWN



Unit

Hot Gas Unit Cooler Typical Factory Piping



MEDIUM HOT GAS DEFROST UNIT COOLERS

For use with the Chandler Mohave Hot Gas Defrost System

STANDARD FEATURES

Mounted and wired control contactors

Schrader valve provided for suction pressure measurement

2-Speed EC motors standard for 115V, 208-230V, and 460V applications

All internal panels have been “isolated” which provides for quiet unit operation

Motors plug into wiring harness for easier servicing

Factory mounted liquid line solenoid valve, TXV, and distributor nozzle

Electric drain pan heaters

Four and six FPI coils

Single point power supply

Suction “P” trap

Insulated drain pan on low temp systems

OPTIONS

UL approved totally enclosed motors

PSC motors (optional) available factory-installed or as a drop-in replacement through InterLink™ Commercial Refrigeration Parts in 115/1/60, 208-230/1/60 and 460/1/60 voltages

Available in stainless steel cabinets and/or drain pan

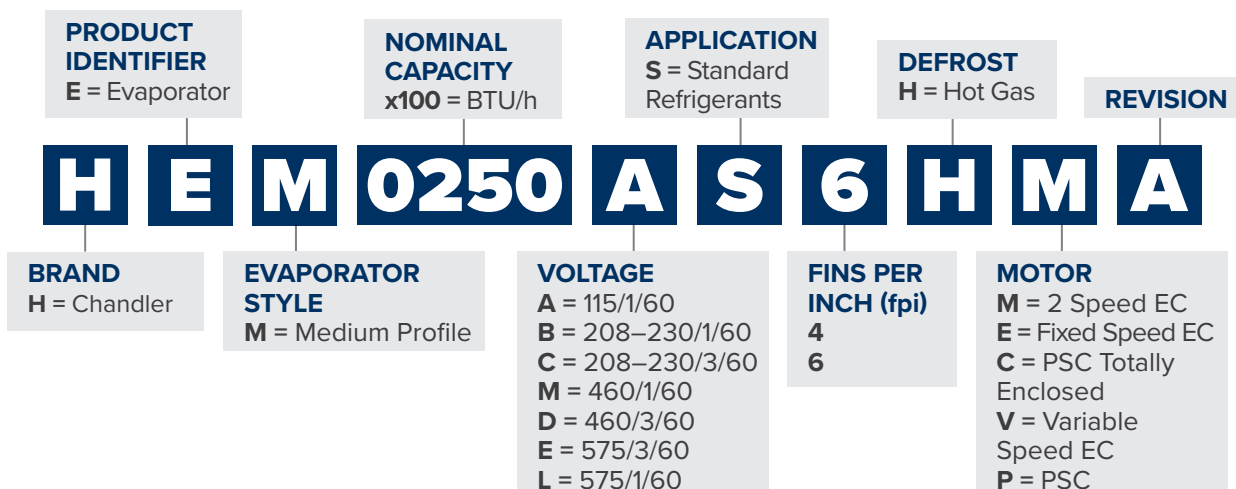
Coil coating options include Bronze-Glow and Copper Fins (6 fins per inch coil models only)

Mounted hot gas drain pan loop

Evaporator control contactors mounted in condensing unit

Insulated drain pan for medium temp systems

NOMENCLATURE



MEDIUM PROFILE UNIT COOLERS

Capacity and Electrical Data

R-404A/R-507A Models	10°F TD -20°F SST <50% RH	Fan Data					Motor Data (Total Amps)						Electrical Supply Requirements [†]						
	BTUH	CFM	No. of Fans	Dia. (In.)	Air Throw (Ft.)		HP	PSC Motor			EC Motor			115V		208-230V		460V	
					Dif- fused (Std.)	Extend- ed (Opt.)		115/ 1/60	208- 230/ 1/60	460/ 1/60	115/ 1/60	208- 230/ 1/60	460/ 1/60	MCA	MOP	MCA	MOP	MCA	MOP
6 FPI MODELS																			
HEM0250*S6H^A	19,600	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0300*S6H^A	22,100	4,350	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0370*S6H^A	28,350	6,800	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0475*S6H^A	35,400	6,500	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0595*S6H^A	43,750	8,500	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0735*S6H^A	53,750	8,100	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
4 FPI MODELS																			
HEM0225*S4H^A	17,100	4,750	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0250*S4H^A	19,600	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0325*S4H^A	25,000	7,100	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0420*S4H^A	31,250	6,750	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0490*S4H^A	36,250	8,800	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0620*S4H^A	45,400	8,400	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15

R-448A/R-449A Models	10°F TD -20°F SST <50% RH	Fan Data					Motor Data (Total Amps)						Electrical Supply Requirements [†]						
	BTUH	CFM	No. of Fans	Dia. (In.)	Air Throw (Ft.)		HP	PSC Motor			EC Motor			115V		208-230V		460V	
					Dif- fused (Std.)	Extend- ed (Opt.)		115/ 1/60	208- 230/ 1/60	460/ 1/60	115/ 1/60	208- 230/ 1/60	460/ 1/60	MCA	MOP	MCA	MOP	MCA	MOP
6 FPI MODELS																			
HEM0250*S6H^A	25,000	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0300*S6H^A	29,600	4,350	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0370*S6H^A	36,650	6,800	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0475*S6H^A	47,100	6,500	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0595*S6H^A	59,150	8,500	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0735*S6H^A	73,350	8,100	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
4 FPI MODELS																			
HEM0225*S4H^A	22,100	4,750	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0250*S4H^A	25,000	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0325*S4H^A	32,500	7,100	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0420*S4H^A	41,650	6,750	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0490*S4H^A	48,750	8,800	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0620*S4H^A	61,650	8,400	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15

Notes:

[†] Data appropriate for electric and hot gas defrost drain pan

MCA = Minimum Circuit Amapacity

MOP = Maximum Overcurrent Protection

MEDIUM PROFILE UNIT COOLERS

Capacity and Electrical Data

R-407A/R-407F Models	10°F TD -20°F SST <50% RH	Fan Data					Motor Data (Total Amps)						Electrical Supply Requirements†						
	BTUH	CFM	No. of Fans	Dia. (In.)	Air Throw (Ft.)		HP	PSC Motor			EC Motor			115V		208-230V		460V	
					Dif- fused (Std.)	Extend- ed (Opt.)		115/ 1/60	208- 230/ 1/60	460/ 1/60	115/ 1/60	208- 230/ 1/60	460/ 1/60	MCA	MOP	MCA	MOP	MCA	MOP
6 FPI MODELS																			
HEM0250*S6H^A	21,650	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0300*S6H^A	25,400	4,350	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0370*S6H^A	32,100	6,800	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0475*S6H^A	40,850	6,500	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0595*S6H^A	49,150	8,500	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0735*S6H^A	61,250	8,100	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
4 FPI MODELS																			
HEM0225*S4H^A	18,750	4,750	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0250*S4H^A	22,500	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0325*S4H^A	27,900	7,100	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0420*S4H^A	35,400	6,750	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0490*S4H^A	40,400	8,800	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0620*S4H^A	51,250	8,400	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15

R-407C Models	10°F TD -20°F SST <50% RH	Fan Data					Motor Data (Total Amps)						Electrical Supply Requirements†						
	BTUH	CFM	No. of Fans	Dia. (In.)	Air Throw (Ft.)		HP	PSC Motor			EC Motor			115V		208-230V		460V	
					Dif- fused (Std.)	Extend- ed (Opt.)		115/ 1/60	208- 230/ 1/60	460/ 1/60	115/ 1/60	208- 230/ 1/60	460/ 1/60	MCA	MOP	MCA	MOP	MCA	MOP
6 FPI MODELS																			
HEM0250*S6H^A	19,150	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0300*S6H^A	22,500	4,350	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0370*S6H^A	27,900	6,800	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0475*S6H^A	36,250	6,500	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0595*S6H^A	44,150	8,500	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0735*S6H^A	55,400	8,100	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
4 FPI MODELS																			
HEM0225*S4H^A	16,650	4,750	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0250*S4H^A	20,000	4,550	2	18	45	60	1/4	8.0	3.6	2.0	7.0	3.5	3.2	15	20	15	15	15	15
HEM0325*S4H^A	24,600	7,100	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0420*S4H^A	31,650	6,750	3	18	45	60	1/4	12.0	5.4	3.0	10.4	5.2	4.8	15	20	15	15	15	15
HEM0490*S4H^A	36,650	8,800	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15
HEM0620*S4H^A	46,650	8,400	4	18	45	60	1/4	16.0	7.2	4.0	13.9	7.0	6.4	20	25	15	15	15	15

Notes:

† Data appropriate for electric and hot gas defrost drain pan

MCA = Minimum Circuit Amapacity

MOP = Maximum Overcurrent Protection

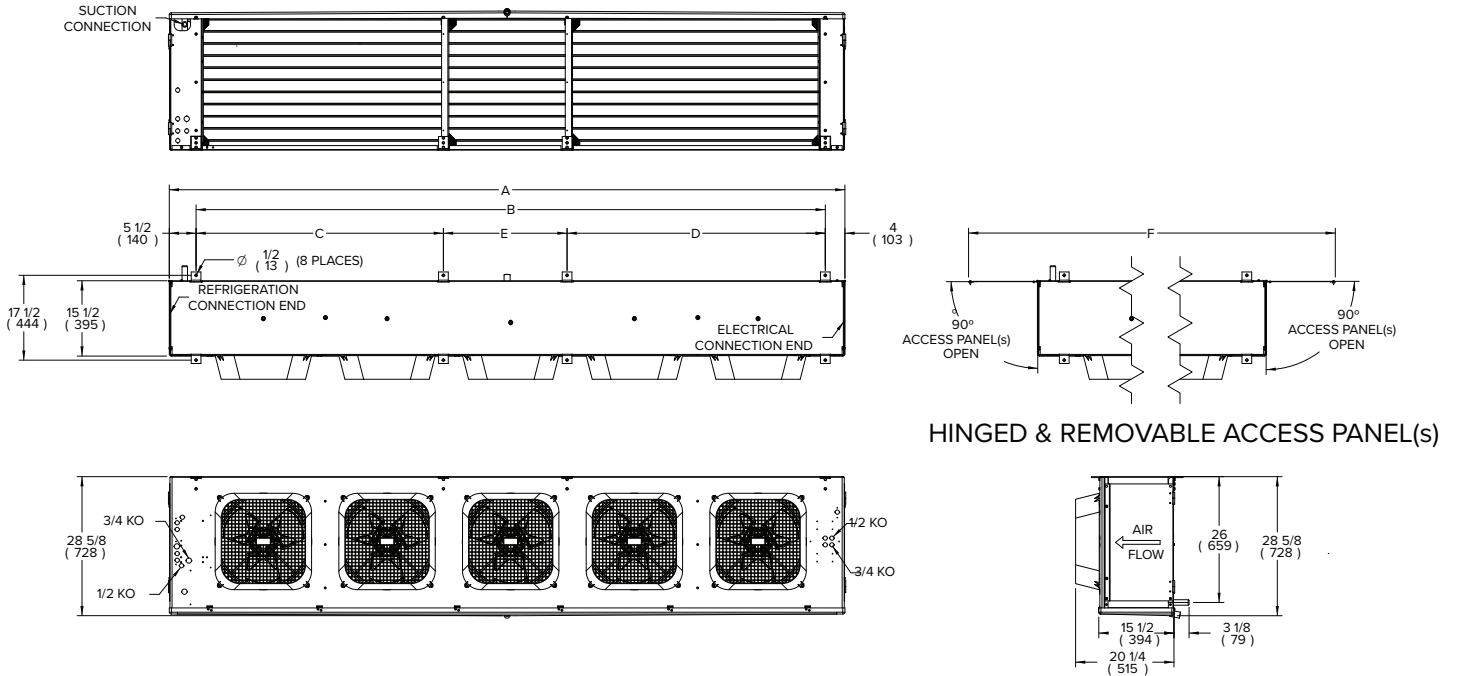
MEDIUM PROFILE UNIT COOLERS

Hot Gas Defrost Physical Data

Model	No. of Fans	FPI	Connections (Inches)		Approximate Net Weight (lbs.)
			Liquid	Suction	
6 FPI MODELS					
HEM0250*S6H^A	2	6	1/2	1-3/8 ODF	213
HEM0300*S6H^A	2	6	1/2	1-3/8 ODF	231
HEM0370*S6H^A	3	6	1/2	1-3/8 ODF	255
HEM0475*S6H^A	3	6	1/2	1-3/8 ODF	288
HEM0595*S6H^A	4	6	1/2	1-3/8 ODF	324
HEM0735*S6H^A	4	6	1/2	1-3/8 ODF	365
4 FPI MODELS					
HEM0225*S4H^A	2	4	1/2	1-3/8 ODF	210
HEM0250*S4H^A	2	4	1/2	1-3/8 ODF	228
HEM0325*S4H^A	3	4	1/2	1-3/8 ODF	252
HEM0420*S4H^A	3	4	1/2	1-3/8 ODF	284
HEM0490*S4H^A	4	4	1/2	1-3/8 ODF	318
HEM0620*S4H^A	4	4	1/2	1-3/8 ODF	358

MEDIUM PROFILE UNIT COOLERS

Dimensional Data



HINGED & REMOVABLE ACCESS PANEL(s)

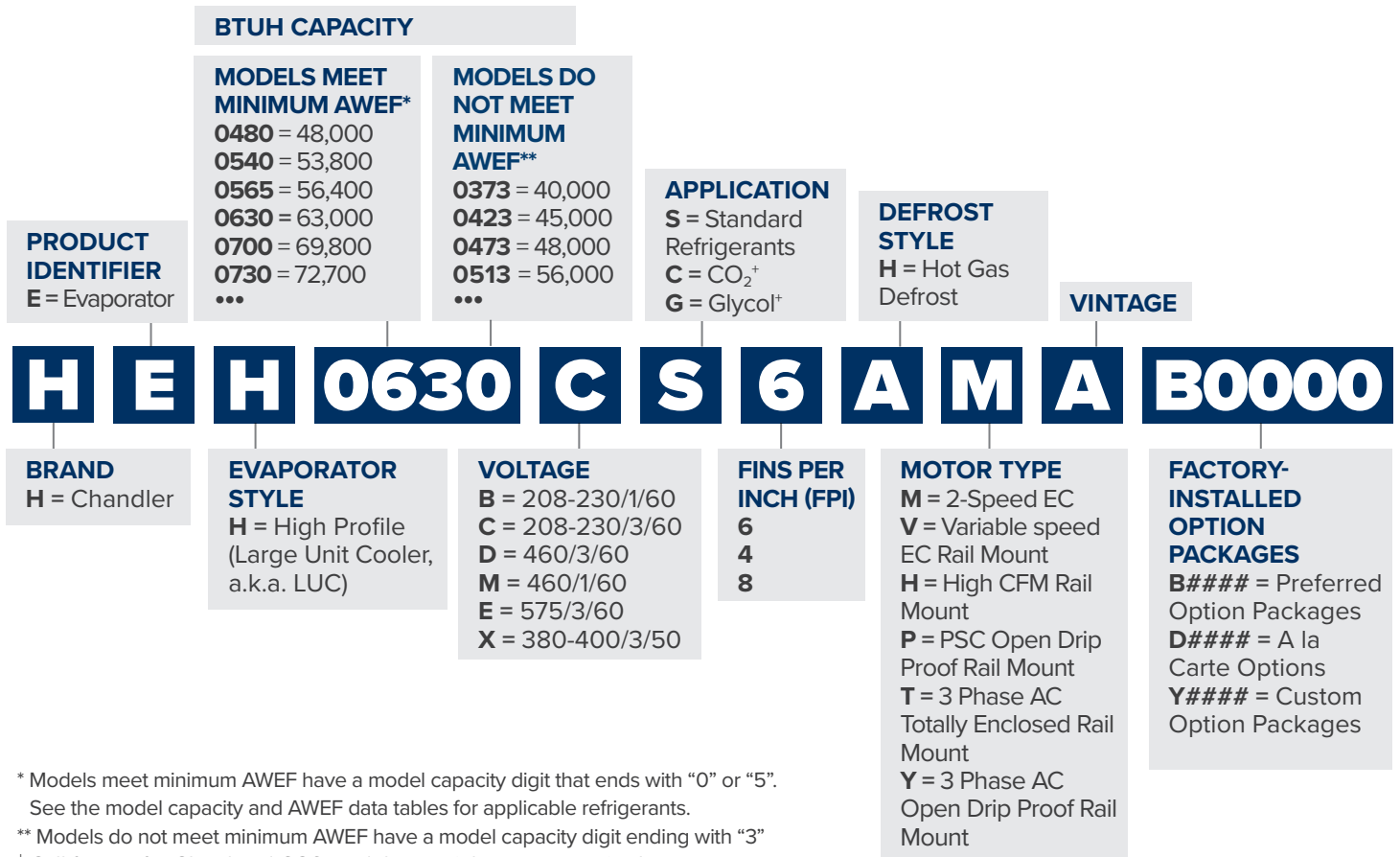
No. of Fans	Unit Dimensions											
	A		B		C		D		E		F	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1	39 7/8	1,011	30 1/4	768	-	-	-	-	-	-	68 1/4	1,733
2	67 7/8	1,722	58 1/4	1,480	-	-	-	-	-	-	96 1/4	2,444
3	95 7/8	2,434	86 1/4	2,191	-	-	-	-	-	-	124 1/4	3,155
4	123 7/8	3,145	114 1/4	2,902	56	1,422	58 1/4	1,480	58 1/4	1,480	152 1/4	3,866
5	139 3/8	3,539	157 1/2	4,001	51	1,295	53 1/4	1,353	53 1/4	1,353	167 3/4	4,260

No. of Fans	Ship Dimensions					
	Height		Length		Width	
	in.	mm	in.	mm	in.	mm
1	39	991	48 1/2	1,232	30	762
2	39	991	78	1,981	30	762
3	39	991	106	2,692	30	762
4	39	991	134	3,404	30	762
5	39	991	149	3,785	30	762

LARGE HOT GAS DEFROST UNIT COOLERS

For use with the Chandler Mohave Hot Gas Defrost System

NOMENCLATURE



* Models meet minimum AWEF have a model capacity digit that ends with "0" or "5". See the model capacity and AWEF data tables for applicable refrigerants.

** Models do not meet minimum AWEF have a model capacity digit ending with "3"

⁺ Call factory for Glycol and CO₂ models, special process required.

FEATURES & BENEFITS

GENERAL FEATURES

- Mill finish aluminum provides an attractive design and structurally sound cabinet
- Thermo-Flex (with five-year limited warranty) is innovative, eliminates leaks, and reduces risk of refrigerant loss
- Liquid line solenoid wiring harness for faster installation
- Suction Schrader fitting for easier suction temperature measurement
- Hinged drain pan and access panels for easy servicing
- Adjustable defrost control can be customized per application
- Long air throw is ideal for large warehouse and industrial applications
- Standardized terminal board for easier field wiring
- Improved wire management and routing for easier installation and service
- Complete hot gas defrost model offering meets more applications
- Quick reference QR code providing access to relevant product documentation

OPTIONS

- High CFM motor and fan combinations (208-230/3/60 and 460/3/60) *
- Totally enclosed motors (208-230/3/60 and 460/3/60)
- Low temperature motors for blast cooling and freezing (for room temps -31°F to -50°F) *
- Units available with Bronze-Glow coil coating
- Units available with copper fins (6 FPI models only)
- Long air throw collars for large warehouse and industrial applications
- Insulated drain pan
- Mounted fusing for motors and heaters
- More factory mounted features for easier field installation available, consult factory for details

DOE 2020 COMPLIANT MODEL ADDITIONAL FEATURES

- 2 Speed EC motor, totally enclosed
- 850 RPM lower noise motor

OUTSTANDING FEATURES

2-Speed EC motor
improves efficiency
and provides more
energy savings



Hinged Access Panels
allow for
easy access to
components

Balance Heater Load
improves
reliability and
generates more
energy savings

Hinged Drain Pan
improves access to
service and clean the
drain pan and coil

LARGE PROFILE UNIT COOLERS

Low Temperature Hot Gas Defrost - 60 Hz

			R-404A ²		R-448A/R-449A							
FPI	Model	Legacy Model	Application Capacity ¹		Application Capacity ¹		Fan Data				Air Throw	
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0540*S6HMA	HHG450	-	-	53,800	15,800	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0630*S6HMA	HHG550	49,000	14,400	63,000	18,500	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0805*S6HMA	HHG640	65,000	19,000	80,100	23,500	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH0925*S6HMA	HHG740	73,000	21,400	92,300	27,100	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH1125*S6HMA	HHG810	89,000	26,100	112,200	32,900	4	24 (610)	14,400	24,466	65 (20)	80 (24)
6	HEH1210*S6HMA	HHG950	94,000	27,500	120,700	35,400	4	24 (610)	14,400	24,466	65 (20)	80 (24)
4	HEH0480*S4HMA	HHF400	-	-	48,000	14,100	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0565*S4HMA	HHF480	-	-	56,400	16,500	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0730*S4HMA	HHF560	-	-	72,700	21,300	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH0845*S4HMA	HHF650	-	-	84,300	24,700	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH1010*S4HMA	HHF710	-	-	100,800	29,500	4	24 (610)	15,000	25,485	65 (20)	80 (24)
4	HEH1085*S4HMA	HHF840	-	-	108,300	31,700	4	24 (610)	15,000	25,485	65 (20)	80 (24)
6	HEH1340*S6HMA	HHG1200	102,000	29,900	134,000	39,300	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1560*S6HMA	HHG1390	118,000	34,600	156,000	45,700	3	30 (763)	24,300	41,286	100 (30)	115 (35)
6	HEH1820*S6HMA	HHG1650	140,000	41,000	182,000	53,300	3	30 (763)	26,550	45,109	120 (37)	140 (43)
6	HEH2330*S6HMA	HHG2120	180,000	52,800	233,000	68,300	4	30 (763)	35,400	60,145	120 (37)	140 (43)

			R-407A/R-407F		R-407C							
			Application Capacity¹		Application Capacity¹		Fan Data				Air Throw	
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
FPI	Model	Legacy Model	BTUH	Watts	BTUH	Watts	No. of Fans	Dia.	CFM	m³H	Standard	w/Collar
								in (mm)			ft (m)	ft (m)
6	HEH0540*S6HMA	HHG450	52,900	15,500	-	-	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0630*S6HMA	HHG550	61,600	18,100	-	-	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0805*S6HMA	HHG640	79,300	23,200	-	-	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH0925*S6HMA	HHG740	91,400	26,800	-	-	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH1125*S6HMA	HHG810	109,300	32,000	-	-	4	24 (610)	14,400	24,466	65 (20)	80 (24)
6	HEH1210*S6HMA	HHG950	117,500	34,400	-	-	4	24 (610)	14,400	24,466	65 (20)	80 (24)
4	HEH0480*S4HMA	HHF400	47,600	14,000	-	-	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0565*S4HMA	HHF480	55,900	16,400	-	-	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0730*S4HMA	HHF560	71,400	20,900	-	-	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH0845*S4HMA	HHF650	83,100	24,400	-	-	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH1010*S4HMA	HHF710	98,000	28,700	-	-	4	24 (610)	15,000	25,485	65 (20)	80 (24)
4	HEH1085*S4HMA	HHF840	106,600	31,200	-	-	4	24 (610)	15,000	25,485	65 (20)	80 (24)
6	HEH1340*S6HMA	HHG1200	134,000	39,300	-	-	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1560*S6HMA	HHG1390	156,000	45,700	-	-	3	30 (763)	24,300	41,286	100 (30)	115 (35)
6	HEH1820*S6HMA	HHG1650	182,000	53,300	-	-	3	30 (763)	26,550	45,109	120 (37)	140 (43)
6	HEH2330*S6HMA	HHG2120	233,000	68,300	-	-	4	30 (763)	35,400	60,145	120 (37)	140 (43)

Notes:

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

² = R-404A capacities for 30 inch fan models use 700 RPM 2-speed EC motor kit. Capacities for R-448A/R-449A and R-407A/C/F use 850 RPM 2-speed EC motor kit.

* = Electrical Code Designator (see Nomenclature details)

Net Capacity is available upon request

LARGE PROFILE UNIT COOLERS

Medium Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data				Air Throw	
			Application Capacity¹		Application Capacity¹							
			10°F TD 25°F SST	6°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0540*S6HMA	HHG450	-	-	62,400	18,300	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0630*S6HMA	HHG550	-	-	73,100	21,400	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0805*S6HMA	HHG640	-	-	92,900	27,200	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH0925*S6HMA	HHG740	-	-	107,100	31,400	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH1125*S6HMA	HHG810	-	-	130,200	38,200	4	24 (610)	14,400	24,466	65 (20)	80 (24)
6	HEH1210*S6HMA	HHG950	-	-	140,000	41,000	4	24 (610)	14,400	24,466	65 (20)	80 (24)
4	HEH0480*S4HMA	HHF400	-	-	55,700	16,300	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0565*S4HMA	HHF480	-	-	65,400	19,200	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0730*S4HMA	HHF560	-	-	84,300	24,700	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH0845*S4HMA	HHF650	-	-	97,800	28,700	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH1010*S4HMA	HHF710	-	-	116,900	34,300	4	24 (610)	15,000	25,485	65 (20)	80 (24)
4	HEH1085*S4HMA	HHF840	-	-	125,600	36,800	4	24 (610)	15,000	25,485	65 (20)	80 (24)

FPI	Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data				Air Throw	
			Application Capacity¹		Application Capacity¹							
			10°F TD 25°F SST	6°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0540*S6HMA	HHG450	61,400	18,000	-	-	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0630*S6HMA	HHG550	71,500	21,000	-	-	2	24 (610)	6,850	11,638	65 (20)	80 (24)
6	HEH0805*S6HMA	HHG640	92,000	27,000	-	-	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH0925*S6HMA	HHG740	106,000	31,100	-	-	3	24 (610)	10,800	18,349	65 (20)	80 (24)
6	HEH1125*S6HMA	HHG810	126,800	37,200	-	-	4	24 (610)	14,400	24,466	65 (20)	80 (24)
6	HEH1210*S6HMA	HHG950	136,300	39,900	-	-	4	24 (610)	14,400	24,466	65 (20)	80 (24)
4	HEH0480*S4HMA	HHF400	55,200	16,200	-	-	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0565*S4HMA	HHF480	64,800	19,000	-	-	2	24 (610)	7,050	11,978	65 (20)	80 (24)
4	HEH0730*S4HMA	HHF560	82,800	24,300	-	-	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH0845*S4HMA	HHF650	96,400	28,300	-	-	3	24 (610)	11,200	19,029	65 (20)	80 (24)
4	HEH1010*S4HMA	HHF710	113,700	33,300	-	-	4	24 (610)	15,000	25,485	65 (20)	80 (24)
4	HEH1085*S4HMA	HHF840	123,700	36,300	-	-	4	24 (610)	15,000	25,485	65 (20)	80 (24)

Notes:

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

* = Electrical Code Designator (see Nomenclature details)

Net Capacity is available upon request

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	2-Speed EC Motors								Drain Pan Heaters [†]		
FPI				208-230/3/60				460/3/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/3/60	460/1/60
6	HEH0540*S6HMA	24 (610)	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	HEH0630*S6HMA	24 (610)	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	HEH0805*S6HMA	24 (610)	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	HEH0925*S6HMA	24 (610)	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	HEH1125*S6HMA	24 (610)	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
6	HEH1210*S6HMA	24 (610)	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	HEH0480*S4HMA	24 (610)	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	HEH0565*S4HMA	24 (610)	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	HEH0730*S4HMA	24 (610)	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	HEH0845*S4HMA	24 (610)	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	HEH1010*S4HMA	24 (610)	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	HEH1085*S4HMA	24 (610)	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
6	HEH1340*S6HMA	30 (763)	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
6	HEH1560*S6HMA	30 (763)	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
6	HEH1820*S6HMA	30 (763)	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,200	18.2	9.1
6	HEH2330*S6HMA	30 (763)	1-1/2	14.8	4,474	15.7	25	7.6	4,474	8.1	15	6,450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

** = This model with 3-phase drain pan heaters

† = Hot gas drain pan available

PERFORMANCE DATA

Low Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data				Air Throw	
			Application Capacity¹		Application Capacity¹							
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0423*S6H^A	HHG450	45,000	13,200	49,000	14,400	2	24 (610)	9,000	15,291	70 (21)	85 (26)
6	HEH0513*S6H^A	HHG550	54,350	15,900	61,000	17,900	2	24 (610)	9,000	15,291	70 (21)	85 (26)
6	HEH0573*S6H^A	HHG640	62,700	18,400	69,000	20,200	3	24 (610)	12,600	21,408	70 (21)	85 (26)
6	HEH0713*S6H^A	HHG740	74,000	21,700	81,000	23,700	3	24 (610)	12,600	21,408	70 (21)	85 (26)
6	HEH0763*S6H^A	HHG810	81,000	23,700	89,000	26,100	4	24 (610)	16,800	28,543	70 (21)	85 (26)
6	HEH0963*S6H^A	HHG950	95,000	27,800	105,000	30,800	4	24 (610)	16,800	28,543	70 (21)	85 (26)
4	HEH0373*S4H^A	HHF400	40,000	11,700	43,000	12,600	2	24 (610)	9,400	15,971	70 (21)	85 (26)
4	HEH0473*S4H^A	HHF480	48,000	14,100	53,000	15,500	2	24 (610)	9,400	15,971	70 (21)	85 (26)
4	HEH0513*S4H^A	HHF560	56,000	16,400	60,000	17,600	3	24 (610)	13,200	22,427	70 (21)	85 (26)
4	HEH0653*S4H^A	HHF650	65,000	19,000	70,000	20,500	3	24 (610)	13,200	22,427	70 (21)	85 (26)
4	HEH0693*S4H^A	HHF710	71,000	20,800	77,000	22,600	4	24 (610)	17,600	29,903	70 (21)	85 (26)
4	HEH0883*S4H^A	HHF840	84,000	24,600	91,000	26,700	4	24 (610)	17,600	29,903	70 (21)	85 (26)
6	HEH1123*S6H^A	HHG1020	100,850	29,600	112,000	32,800	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1343*S6H^A	HHG1200	120,000	35,200	134,000	39,300	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1563*S6H^A	HHG1390	139,000	40,700	156,000	45,700	3	30 (763)	24,300	41,286	100 (30)	115 (35)
6	HEH1823*S6H^A	HHG1650	152,000	44,500	182,000	53,300	3	30 (763)	26,550	45,109	120 (37)	140 (43)
6	HEH2333*S6H^A	HHG2120	203,550	59,700	233,000	68,300	4	30 (763)	35,400	60,145	120 (37)	140 (43)
4	HEH0983*S4H^A	HHF890	89,000	26,100	98,000	28,700	3	30 (763)	21,600	36,699	100 (30)	115 (35)
4	HEH1163*S4H^A	HHF1050	105,000	30,800	116,000	34,000	3	30 (763)	21,600	36,699	100 (30)	115 (35)
4	HEH1343*S4H^A	HHF1220	122,000	35,800	134,000	39,300	3	30 (763)	25,200	42,815	100 (30)	115 (35)
4	HEH1583*S4H^A	HHF1440	141,150	41,400	158,000	46,300	3	30 (763)	27,600	46,893	120 (37)	140 (43)
4	HEH2053*S4H^A	HHF1860	186,000	54,500	205,000	60,100	4	30 (763)	36,800	62,524	120 (37)	140 (43)

Notes:

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

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

PERFORMANCE DATA

Low Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Legacy Model	R-407A/R-407F		R-407C		Fan Data				Air Throw	
			Application Capacity¹		Application Capacity¹							
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0423*S6H^A	HHG450	49,000	14,400	49,000	14,400	2	24 (610)	9,000	15,291	70 (21)	85 (26)
6	HEH0513*S6H^A	HHG550	61,000	17,900	61,000	17,900	2	24 (610)	9,000	15,291	70 (21)	85 (26)
6	HEH0573*S6H^A	HHG640	69,000	20,200	69,000	20,200	3	24 (610)	12,600	21,408	70 (21)	85 (26)
6	HEH0713*S6H^A	HHG740	81,000	23,700	81,000	23,700	3	24 (610)	12,600	21,408	70 (21)	85 (26)
6	HEH0763*S6H^A	HHG810	89,000	26,100	89,000	26,100	4	24 (610)	16,800	28,543	70 (21)	85 (26)
6	HEH0963*S6H^A	HHG950	105,000	30,800	105,000	30,800	4	24 (610)	16,800	28,543	70 (21)	85 (26)
4	HEH0373*S4H^A	HHF400	43,000	12,600	43,000	12,600	2	24 (610)	9,400	15,971	70 (21)	85 (26)
4	HEH0473*S4H^A	HHF480	53,000	15,500	53,000	15,500	2	24 (610)	9,400	15,971	70 (21)	85 (26)
4	HEH0513*S4H^A	HHF560	60,000	17,600	60,000	17,600	3	24 (610)	13,200	22,427	70 (21)	85 (26)
4	HEH0653*S4H^A	HHF650	70,000	20,500	70,000	20,500	3	24 (610)	13,200	22,427	70 (21)	85 (26)
4	HEH0693*S4H^A	HHF710	77,000	22,600	77,000	22,600	4	24 (610)	17,600	29,903	70 (21)	85 (26)
4	HEH0883*S4H^A	HHF840	91,000	26,700	91,000	26,700	4	24 (610)	17,600	29,903	70 (21)	85 (26)
6	HEH1123*S6H^A	HHG1020	112,000	32,800	112,000	32,800	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1343*S6H^A	HHG1200	134,000	39,300	134,000	39,300	3	30 (763)	20,700	35,170	100 (30)	115 (35)
6	HEH1563*S6H^A	HHG1390	156,000	45,700	156,000	45,700	3	30 (763)	24,300	41,286	100 (30)	115 (35)
6	HEH1823*S6H^A	HHG1650	182,000	53,300	182,000	53,300	3	30 (763)	26,550	45,109	120 (37)	140 (43)
6	HEH2333*S6H^A	HHG2120	233,000	68,300	233,000	68,300	4	30 (763)	35,400	60,145	120 (37)	140 (43)
4	HEH0983*S4H^A	HHF890	98,000	28,700	98,000	28,700	3	30 (763)	21,600	36,699	100 (30)	115 (35)
4	HEH1163*S4H^A	HHF1050	116,000	34,000	116,000	34,000	3	30 (763)	21,600	36,699	100 (30)	115 (35)
4	HEH1343*S4H^A	HHF1220	134,000	39,300	134,000	39,300	3	30 (763)	25,200	42,815	100 (30)	115 (35)
4	HEH1583*S4H^A	HHF1440	158,000	46,300	158,000	46,300	3	30 (763)	27,600	46,893	120 (37)	140 (43)
4	HEH2053*S4H^A	HHF1860	205,000	60,100	205,000	60,100	4	30 (763)	36,800	62,524	120 (37)	140 (43)

Notes:

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

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

PERFORMANCE DATA

Hot Gas Defrost High CFM - 60 Hz

FPI	Model	Legacy Model	R-404A/R-507A		R-448A/R-449A		Fan Data				Air Throw	
			Application Capacity¹		Application Capacity¹							
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
			BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard ft (m)	w/Collar ft (m)
6	HEH0423*S6HHA	HHG450*V	49,500	14,500	53,900	15,800	2	24 (610)	11,300	19,199	85 (26)	100 (30)
6	HEH0513*S6HHA	HHG550*V	59,800	17,500	67,100	19,700	2	24 (610)	11,300	19,199	85 (26)	100 (30)
6	HEH0573*S6HHA	HHG640*V	69,000	20,200	75,900	22,200	3	24 (610)	15,900	27,014	85 (26)	100 (30)
6	HEH0713*S6HHA	HHG740*V	81,400	23,900	89,100	26,100	3	24 (610)	15,900	27,014	85 (26)	100 (30)
6	HEH0763*S6HHA	HHG810*V	89,100	26,100	97,900	28,700	4	24 (610)	21,200	36,019	85 (26)	100 (30)
6	HEH0963*S6HHA	HHG950*V	104,500	30,600	115,500	33,800	4	24 (610)	21,200	36,019	85 (26)	100 (30)
4	HEH0373*S4HHA	HHF400*V	42,000	12,300	45,150	13,200	2	24 (610)	12,200	20,728	85 (26)	100 (30)
4	HEH0473*S4HHA	HHF480*V	50,400	14,800	55,650	16,300	2	24 (610)	12,200	20,728	85 (26)	100 (30)
4	HEH0513*S4HHA	HHF560*V	58,800	17,200	63,000	18,500	3	24 (610)	17,000	28,883	85 (26)	100 (30)
4	HEH0653*S4HHA	HHF650*V	68,250	20,000	73,500	21,500	3	24 (610)	17,000	28,883	85 (26)	100 (30)
4	HEH0693*S4HHA	HHF710*V	74,550	21,800	80,850	23,700	4	24 (610)	22,600	38,398	85 (26)	100 (30)
4	HEH0883*S4HHA	HHF840*V	88,200	25,800	95,550	28,000	4	24 (610)	22,600	38,398	85 (26)	100 (30)
6	HEH1123*S6HHA	HHG1020*V	110,900	32,500	123,200	36,100	3	30 (763)	23,300	39,587	110 (34)	130 (40)
6	HEH1343*S6HHA	HHG1200*V	132,000	38,700	147,400	43,200	3	30 (763)	23,300	39,587	110 (34)	130 (40)
6	HEH1563*S6HHA	HHG1390*V	152,900	44,800	171,600	50,300	3	30 (763)	28,000	47,572	110 (34)	130 (40)
6	HEH1823*S6HHA	HHG1650*V	167,200	49,000	200,200	58,700	3	30 (763)	29,700	50,461	130 (40)	150 (46)
6	HEH2333*S6HHA	HHG2120*V	223,900	65,600	256,300	75,100	4	30 (763)	39,600	67,281	130 (40)	150 (46)
4	HEH0983*S4HHA	HHF890*V	93,450	27,400	102,900	30,200	3	30 (763)	23,800	40,436	110 (34)	130 (40)
4	HEH1163*S4HHA	HHF1050*V	110,250	32,300	121,800	35,700	3	30 (763)	23,800	40,436	110 (34)	130 (40)
4	HEH1343*S4HHA	HHF1220*V	128,100	37,500	140,700	41,200	3	30 (763)	28,600	48,592	110 (34)	130 (40)
4	HEH1583*S4HHA	HHF1440*V	148,200	43,400	165,900	48,600	3	30 (763)	30,600	51,990	130 (40)	150 (46)
4	HEH2053*S4HHA	HHF1860*V	195,300	57,200	215,250	63,100	4	30 (763)	40,800	69,320	130 (40)	150 (46)

Notes:

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

* = Electrical Code Designator (see Nomenclature details)

PERFORMANCE DATA

Hot Gas Defrost High CFM - 60 Hz

			R-407A/R-407F		R-407C							
			Application Capacity¹		Application Capacity¹		Fan Data				Air Throw	
			10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST						
FPI	Model	Legacy Model	BTUH	Watts	BTUH	Watts	No. of Fans	Dia. in (mm)	CFM	m³H	Standard	w/Collar
								ft (m)			ft (m)	
6	HEH0423*S6HHA	HHG450*V	53,900	15,800	53,900	15,800	2	24 (610)	11,300	19,199	85 (26)	100 (30)
6	HEH0513*S6HHA	HHG550*V	67,100	19,700	67,100	19,700	2	24 (610)	11,300	19,199	85 (26)	100 (30)
6	HEH0573*S6HHA	HHG640*V	75,900	22,200	75,900	22,200	3	24 (610)	15,900	27,014	85 (26)	100 (30)
6	HEH0713*S6HHA	HHG740*V	89,100	26,100	89,100	26,100	3	24 (610)	15,900	27,014	85 (26)	100 (30)
6	HEH0763*S6HHA	HHG810*V	97,900	28,700	97,900	28,700	4	24 (610)	21,200	36,019	85 (26)	100 (30)
6	HEH0963*S6HHA	HHG950*V	115,500	33,800	115,500	33,800	4	24 (610)	21,200	36,019	85 (26)	100 (30)
4	HEH0373*S4HHA	HHF400*V	45,150	13,200	45,150	13,200	2	24 (610)	12,200	20,728	85 (26)	100 (30)
4	HEH0473*S4HHA	HHF480*V	55,650	16,300	55,650	16,300	2	24 (610)	12,200	20,728	85 (26)	100 (30)
4	HEH0513*S4HHA	HHF560*V	63,000	18,500	63,000	18,500	3	24 (610)	17,000	28,883	85 (26)	100 (30)
4	HEH0653*S4HHA	HHF650*V	73,500	21,500	73,500	21,500	3	24 (610)	17,000	28,883	85 (26)	100 (30)
4	HEH0693*S4HHA	HHF710*V	80,850	23,700	80,850	23,700	4	24 (610)	22,600	38,398	85 (26)	100 (30)
4	HEH0883*S4HHA	HHF840*V	95,550	28,000	95,550	28,000	4	24 (610)	22,600	38,398	85 (26)	100 (30)
6	HEH1123*S6HHA	HHG1020*V	123,200	36,100	123,200	36,100	3	30 (763)	23,300	39,587	110 (34)	130 (40)
6	HEH1343*S6HHA	HHG1200*V	147,400	43,200	147,400	43,200	3	30 (763)	23,300	39,587	110 (34)	130 (40)
6	HEH1563*S6HHA	HHG1390*V	171,600	50,300	171,600	50,300	3	30 (763)	28,000	47,572	110 (34)	130 (40)
6	HEH1823*S6HHA	HHG1650*V	200,200	58,700	200,200	58,700	3	30 (763)	29,700	50,461	130 (40)	150 (46)
6	HEH2333*S6HHA	HHG2120*V	256,300	75,100	256,300	75,100	4	30 (763)	39,600	67,281	130 (40)	150 (46)
4	HEH0983*S4HHA	HHF890*V	102,900	30,200	102,900	30,200	3	30 (763)	23,800	40,436	110 (34)	130 (40)
4	HEH1163*S4HHA	HHF1050*V	121,800	35,700	121,800	35,700	3	30 (763)	23,800	40,436	110 (34)	130 (40)
4	HEH1343*S4HHA	HHF1220*V	140,700	41,200	140,700	41,200	3	30 (763)	28,600	48,592	110 (34)	130 (40)
4	HEH1583*S4HHA	HHF1440*V	165,900	48,600	165,900	48,600	3	30 (763)	30,600	51,990	130 (40)	150 (46)
4	HEH2053*S4HHA	HHF1860*V	215,250	63,100	215,250	63,100	4	30 (763)	40,800	69,320	130 (40)	150 (46)

Notes:

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

* = Electrical Code Designator (see Nomenclature details)

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	2-Speed EC and Variable Speed EC Motors								Drain Pan Heaters †		
FPI				208-230/3/60				460/3/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	HEH0423*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0513*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0573*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0713*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0763*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH0963*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0373*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0473*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0513*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0653*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0693*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0883*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH1123*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1343*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1563*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1823*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
6	HEH2333*S6H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0
4	HEH0983*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1163*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1343*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1583*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
4	HEH2053*S4H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	3 Phase AC Open Drip Proof Rail Mount								Drain Pan Heaters †		
FPI				208-230/3/60				460/3/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	HEH0423*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0513*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0573*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0713*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0763*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH0963*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0373*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0473*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0513*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0653*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0693*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0883*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH1123*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1343*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1563*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1823*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
6	HEH2333*S6H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0
4	HEH0983*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1163*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1343*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1583*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
4	HEH2053*S4H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	3 Phase AC Totally Enclosed Rail Mount								Drain Pan Heaters †		
FPI				208-230/3/60				460/3/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	HEH0423*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0513*S6H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
6	HEH0573*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0713*S6H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
6	HEH0763*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH0963*S6H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0373*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0473*S4H^A	24 (610)	3/4	4.4	1,119	5.0	15.0	2.2	1,119	2.5	15.0	2,100	9.2	4.6
4	HEH0513*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0653*S4H^A	24 (610)	3/4	6.6	1,679	7.2	15.0	3.3	1,679	3.6	15.0	2,700	11.8	5.9
4	HEH0693*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
4	HEH0883*S4H^A	24 (610)	3/4	8.8	2,238	9.4	15.0	4.4	2,238	4.7	15.0	4,000	17.4	8.7
6	HEH1123*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1343*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1563*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
6	HEH1823*S6H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
6	HEH2333*S6H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0
4	HEH0983*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1163*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1343*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,000	17.4	8.7
4	HEH1583*S4H^A	30 (763)	1-1/2	11.1	3,356	12.0	20.0	5.7	3,356	6.2	15.0	4,200	18.2	9.1
4	HEH2053*S4H^A	30 (763)	1-1/2	14.8	4,474	15.7	25.0	7.6	4,474	8.1	15.0	6,450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	3 Phase AC Totally Enclosed Rail Mount				Drain Pan Heaters †	
FPI		in (mm)		575/3/60				Watts	Total Amps
				Amps	Watts	MCA	MOPD		575/1/60
6	HEH0423*S6H^A	24 (610)	1/2	1.8	746	2.0	15.0	2,100	3.7
6	HEH0513*S6H^A	24 (610)	1/2	1.8	746	2.0	15.0	2,100	3.7
6	HEH0573*S6H^A	24 (610)	1/2	2.7	1,119	2.9	15.0	2,700	4.7
6	HEH0713*S6H^A	24 (610)	1/2	2.7	1,119	2.9	15.0	2,700	4.7
6	HEH0763*S6H^A	24 (610)	1/2	3.6	1,492	3.8	15.0	4,000	6.9
6	HEH0963*S6H^A	24 (610)	1/2	3.6	1,492	3.8	15.0	4,000	6.9
4	HEH0373*S4H^A	24 (610)	1/2	1.8	746	2.0	15.0	2,100	3.7
4	HEH0473*S4H^A	24 (610)	1/2	1.8	746	2.0	15.0	2,100	3.7
4	HEH0513*S4H^A	24 (610)	1/2	2.7	1,119	2.9	15.0	2,700	4.7
4	HEH0653*S4H^A	24 (610)	1/2	2.7	1,119	2.9	15.0	2,700	4.7
4	HEH0693*S4H^A	24 (610)	1/2	3.6	1,492	3.8	15.0	4,000	6.9
4	HEH0883*S4H^A	24 (610)	1/2	3.6	1,492	3.8	15.0	4,000	6.9
6	HEH1823*S6H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,200	7.3
6	HEH2333*S6H^A	30 (763)	1-1/2	11.2	4,474	11.9	20.0	6,450	11.2
4	HEH1583*S4H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,200	7.3
4	HEH2053*S4H^A	30 (763)	1-1/2	11.2	4,474	11.9	20.0	6,450	11.2

	Model	Fan Diameter	HP	3 Phase AC Open Drip Proof Rail Mount				Drain Pan Heaters [†]	
FPI		in (mm)		575/3/60				Watts	Total Amps
				Amps	Watts	MCA	MOPD		575/1/60
6	HEH1123*S6H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9
6	HEH1343*S6H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9
6	HEH1563*S6H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9
4	HEH0983*S4H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9
4	HEH1163*S4H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9
4	HEH1343*S4H^A	30 (763)	1-1/2	7.8	2,237	8.5	15.0	4,000	6.9

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

	Model	Fan Diameter	HP	PSC Open Drip Proof Rail Mount								Drain Pan Heaters [†]		
FPI				208-230/1/60				460/1/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	HEH0423*S6H^A	24 (610)	1/2	6.4	746	7.2	20.0	3.4	746	3.8	15.0	2,100	9.2	4.6
6	HEH0513*S6H^A	24 (610)	1/2	6.4	746	7.2	20.0	3.4	746	3.8	15.0	2,100	9.2	4.6
6	HEH0573*S6H^A	24 (610)	1/2	9.6	1,119	10.4	20.0	5.1	1,119	5.5	15.0	2,700	11.8	5.9
6	HEH0713*S6H^A	24 (610)	1/2	9.6	1,119	10.4	20.0	5.1	1,119	5.5	15.0	2,700	11.8	5.9
6	HEH0763*S6H^A	24 (610)	1/2	12.8	1,492	13.6	20.0	6.8	1,492	7.2	15.0	4,000	17.4	8.7
6	HEH0963*S6H^A	24 (610)	1/2	12.8	1,492	13.6	20.0	6.8	1,492	7.2	15.0	4,000	17.4	8.7
4	HEH0373*S4H^A	24 (610)	1/2	6.4	746	7.2	20.0	3.4	746	3.8	15.0	2,100	9.2	4.6
4	HEH0473*S4H^A	24 (610)	1/2	6.4	746	7.2	20.0	3.4	746	3.8	15.0	2,100	9.2	4.6
4	HEH0513*S4H^A	24 (610)	1/2	9.6	1,119	10.4	20.0	5.1	1,119	5.5	15.0	2,700	11.8	5.9
4	HEH0653*S4H^A	24 (610)	1/2	9.6	1,119	10.4	20.0	5.1	1,119	5.5	15.0	2,700	11.8	5.9
4	HEH0693*S4H^A	24 (610)	1/2	12.8	1,492	13.6	20.0	6.8	1,492	7.2	15.0	4,000	17.4	8.7
4	HEH0883*S4H^A	24 (610)	1/2	12.8	1,492	13.6	20.0	6.8	1,492	7.2	15.0	4,000	17.4	8.7

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost High CFM - 60 Hz

	Model	Fan Diameter	HP	High CFM Rail Mount								Drain Pan Heaters †		
FPI				208-230/3/60				460/3/60				Watts	Total Amps	
		in (mm)		Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	HEH0423*S6H^A	24 (610)	2	12.0	2,984	13.5	30.0	6.0	2,984	6.80	15.0	2100	9.2	4.6
6	HEH0513*S6H^A	24 (610)	2	12.0	2,984	13.5	30.0	6.0	2,984	6.80	15.0	2100	9.2	4.6
6	HEH0573*S6H^A	24 (610)	2	18.0	4,476	19.5	35.0	9.0	4,476	9.80	15.0	2700	11.8	5.9
6	HEH0713*S6H^A	24 (610)	2	18.0	4,476	19.5	35.0	9.0	4,476	9.80	15.0	2700	11.8	5.9
6	HEH0763*S6H^A	24 (610)	2	24.0	5,968	25.5	40.0	12.0	5,968	12.80	20.0	4000	17.4	8.7
6	HEH0963*S6H^A	24 (610)	2	24.0	5,968	25.5	40.0	12.0	5,968	12.80	20.0	4000	17.4	8.7
4	HEH0373*S4H^A	24 (610)	2	12.0	2,984	13.5	30.0	6.0	2,984	6.80	15.0	2100	9.2	4.6
4	HEH0473*S4H^A	24 (610)	2	12.0	2,984	13.5	30.0	6.0	2,984	6.80	15.0	2100	9.2	4.6
4	HEH0513*S4H^A	24 (610)	2	18.0	4,476	19.5	35.0	9.0	4,476	9.80	15.0	2700	11.8	5.9
4	HEH0653*S4H^A	24 (610)	2	18.0	4,476	19.5	35.0	9.0	4,476	9.80	15.0	2700	11.8	5.9
4	HEH0693*S4H^A	24 (610)	2	24.0	5,968	25.5	40.0	12.0	5,968	12.80	20.0	4000	17.4	8.7
4	HEH0883*S4H^A	24 (610)	2	24.0	5,968	25.5	40.0	12.0	5,968	12.80	20.0	4000	17.4	8.7
6	HEH1123*S6H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
6	HEH1343*S6H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
6	HEH1563*S6H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
6	HEH1823*S6H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4200	18.2	9.1
6	HEH2333*S6H^A	30 (763)	3	32.8	8,948	34.9	55.0	16.4	8,948	17.40	25.0	6450	23.2**	14.0
4	HEH0983*S4H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
4	HEH1163*S4H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
4	HEH1343*S4H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4000	17.4	8.7
4	HEH1583*S4H^A	30 (763)	3	24.6	6,711	26.7	45.0	12.3	6,711	13.30	25.0	4200	18.2	9.1
4	HEH2053*S4H^A	30 (763)	3	32.8	8,948	34.9	55.0	16.4	8,948	17.40	25.0	6450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = This model with 3-Phase drain pan heaters

† = Hot gas drain pan available

TD = Temperature Difference = (Room temperature - saturated suction temperature)

High CFM models can handle external static pressure up to 1/2" of water

High CFM models are designed for operation below 15°F SST

CFM is at 0.0 external static pressure

LARGE PROFILE UNIT COOLERS

Hot Gas Defrost Physical Data

FPI	Model	No. of Fans	Fan Diameter	Connections (in)						Approx. Net Wt.		Approx. Ship Wt.	
			in (mm)	Coil Inlet ODF	Suction ODF	External Equalizer ODF	Drain FPT	Hot Gas Side Port	Hot Gas Drain Pain Ref. Conn. (when supplied)	lbs	kg	lbs	kg
6	HEH0540*S6H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	433	196	634	288
6	HEH0630*S6H^A	2	24 (610)	1-3/8	2-1/8	1/4	1-1/4	5/8	1-1/8	445	202	646	293
6	HEH0805*S6H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	583	264	824	374
6	HEH0925*S6H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	595	270	836	379
6	HEH1125*S6H^A	4	24 (610)	1-5/8	2-1/8	1/4	1-1/4	7/8	1-1/8	732	332	1014	460
6	HEH1210*S6H^A	4	24 (610)	1-5/8	2-1/8	1/4	1-1/4	7/8	1-1/8	744	337	1026	465
6	HEH0423*S6H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	434	197	631	286
6	HEH0513*S6H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	454	206	651	295
6	HEH0573*S6H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	566	257	770	349
6	HEH0713*S6H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	586	266	790	358
6	HEH0763*S6H^A	4	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	707	321	918	416
6	HEH0963*S6H^A	4	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	727	330	938	425
4	HEH0480*S4H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	437	198	638	289
4	HEH0565*S4H^A	2	24 (610)	1-3/8	2-1/8	1/4	1-1/4	5/8	1-1/8	449	204	650	295
4	HEH0730*S4H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	587	266	828	376
4	HEH0845*S4H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	599	272	840	381
4	HEH1010*S4H^A	4	24 (610)	1-5/8	2-1/8	1/4	1-1/4	7/8	1-1/8	736	334	1018	462
4	HEH1085*S4H^A	4	24 (610)	1-5/8	2-1/8	1/4	1-1/4	7/8	1-1/8	750	340	1032	468
4	HEH0373*S4H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	438	199	635	288
4	HEH0473*S4H^A	2	24 (610)	1-1/8	1-5/8	1/4	1-1/4	5/8	1-1/8	458	208	655	297
4	HEH0513*S4H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	454	206	651	295
4	HEH0653*S4H^A	3	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	590	268	794	360
4	HEH0693*S4H^A	4	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	711	323	922	418
4	HEH0883*S4H^A	4	24 (610)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-1/8	731	332	942	427
6	HEH1123*S6H^A	3	30 (763)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-3/8	753	342	979	444
6	HEH1340*S6HMA	3	30 (763)	1-5/8	2-1/8	1/4	1-1/4	1-1/8	1-3/8	815	370	1060	481
6	HEH1343*S6H^A	3	30 (763)	1-5/8	2-1/8	1/4	1-1/4	1-1/8	1-3/8	815	370	1060	481
6	HEH1560*S6HMA	3	30 (763)	1-3/8 (2 conns)	2-1/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-3/8	865	392	1125	510
6	HEH1563*S6H^A	3	30 (763)	1-3/8 (2 conns)	2-1/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-3/8	865	392	1125	510
6	HEH1820*S6HMA	3	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1175	533	1528	693
6	HEH1823*S6H^A	3	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1175	533	1528	693
6	HEH2330*S6HMA	4	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1620	735	2106	955
6	HEH2333*S6H^A	4	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1620	735	2106	955
4	HEH0983*S4H^A	3	30 (763)	1-3/8	2-1/8	1/4	1-1/4	7/8	1-3/8	744	337	967	439
4	HEH1163*S4H^A	3	30 (763)	1-5/8	2-1/8	1/4	1-1/4	1-1/8	1-3/8	805	365	1047	475
4	HEH1343*S4H^A	3	30 (763)	1-3/8 (2 conns)	2-1/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-3/8	854	387	1110	503
4	HEH1583*S4H^A	3	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1160	526	1508	684
4	HEH2053*S4H^A	4	30 (763)	1-3/8 (2 conns)	2-5/8 (2 conns)	1/4 (2 conns)	1-1/4	7/8 (2 conns)	1-5/8**	1600	726	2080	943

Notes:

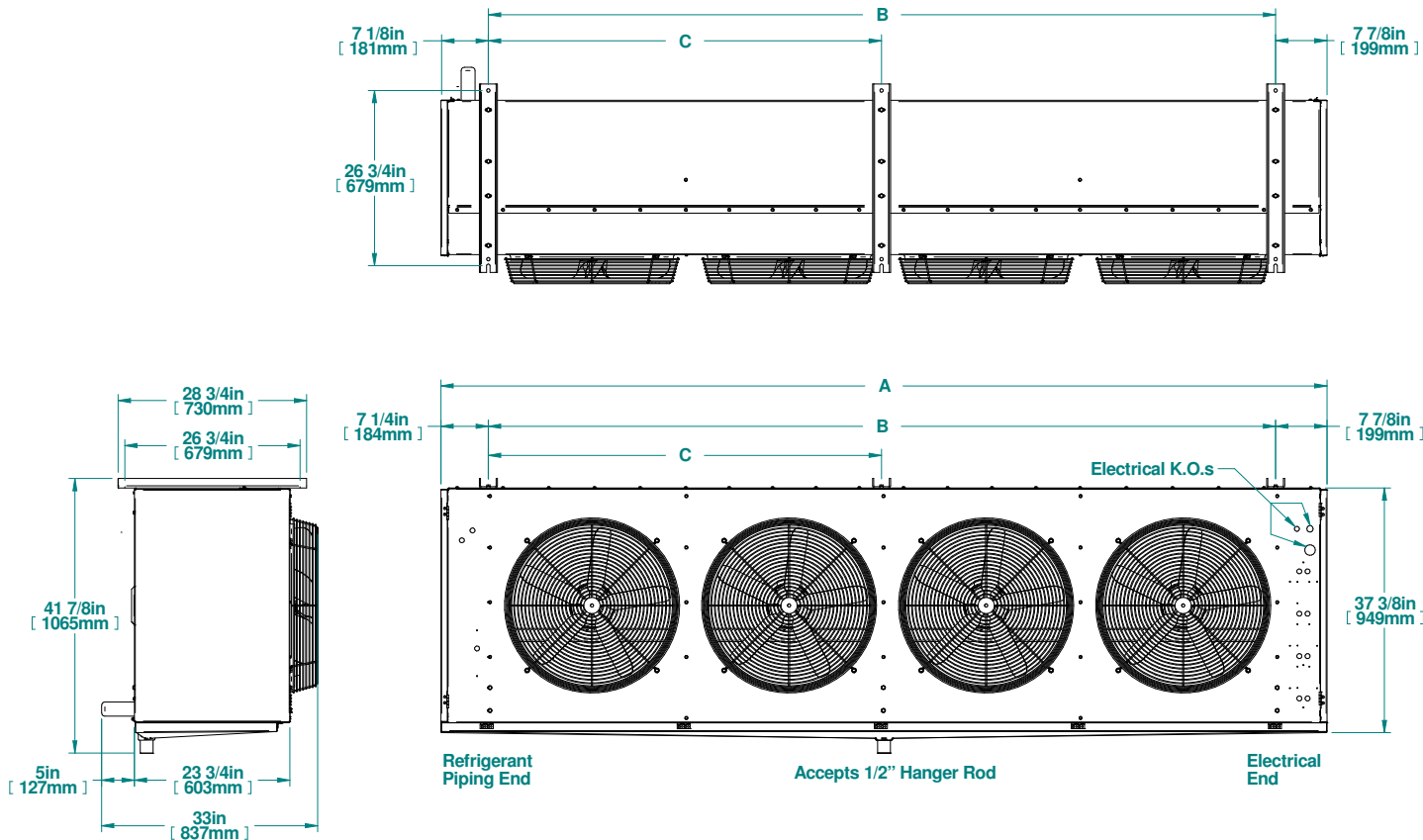
* = Electrical Code Designator (see Nomenclature details)

^ = Motor Code Designator (see Nomenclature details)

** = Opposite end connections

LARGE PROFILE UNIT COOLERS

Diagram 1: 24" Fan Models

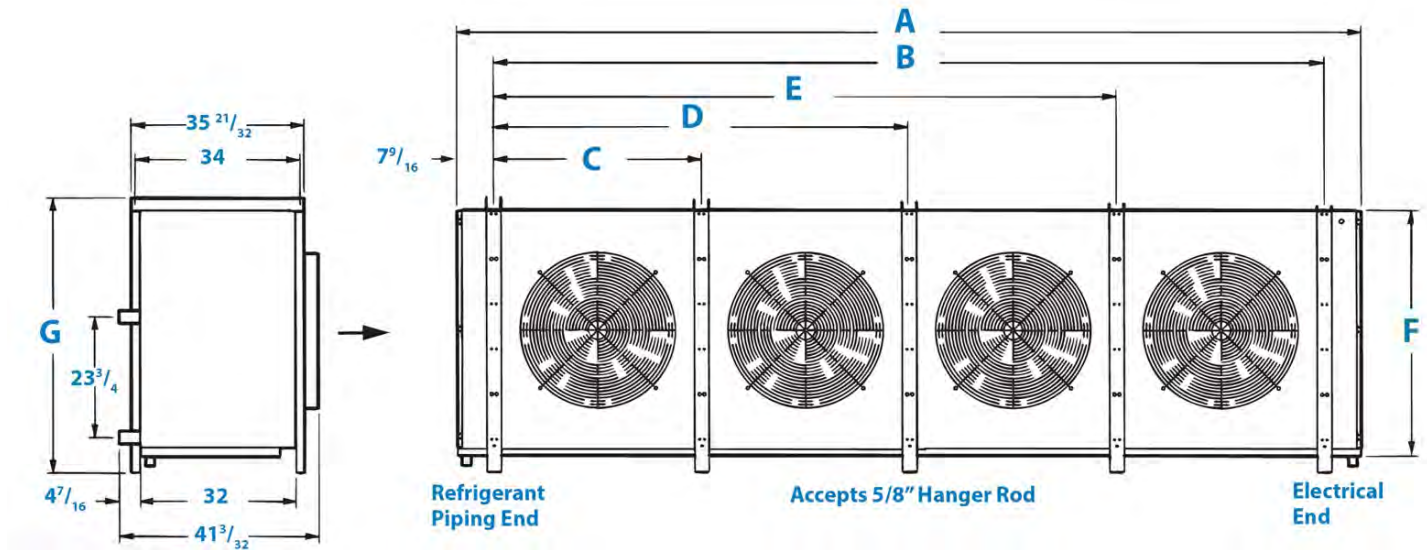


Dimensional Data For 24" Fan Models

# of Fans	A		B		C	
	in.	mm	in.	mm	in.	mm
2 fan	83-3/32	2,111	68-1/8	1,730	-	-
3 fan	105-5/32	2,671	90-3/16	2,291	45-3/32	1,145
4 fan	135-7/32	3,435	120-1/4	3,054	60-1/8	1,527

LARGE PROFILE UNIT COOLERS

Diagram 2: 30" Fan Models



Dimensional Data For 30" Fan Models

Hot Gas		Dimensions													
6FPI	4FPI	A		B		C		D		E		F		G	
		in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
1123	0983	135-13/32	3,439	120-9/32	3,055	40-3/32	1,018	80-3/16	2,037	-	-	44-1/2	1130	50-5/16	1,278
1340, 1343	1163	135-13/32	3,439	120-9/32	3,055	40-3/32	1,018	80-3/16	2,037	-	-	44-1/2	1130	50-5/16	1,278
1560, 1563	1343	135-13/32	3,439	120-9/32	3,055	40-3/32	1,018	80-3/16	2,037	-	-	50-7/32	1276	55-13/16	1,418
1820, 1823	1583	142-1/2	3,620	127-25/32	3,246	42-19/32	1,082	85-3/16	2,164	-	-	50-7/32	1276	55-13/16	1,418
2330, 2333	2053	185-1/2	4,712	170-3/8	4,328	42-19/32	1,082	85-3/16	2,164	127-25/32	3,246	50-7/32	1276	56-1/4	1,429

Hot Gas Defrost Models Air Throw

Hot Gas		Std Motor RPM	Std HP	Air Throw	Air Throw w/Collar	Options High CFM	Optional HP	Air Throw	Air Throw w/Collar
6FPI	4FPI								
0540-1210	0480-1085	850	3/4	65	80	N/A	N/A	N/A	N/A
0423-0963	0373-0883	850	1/2"	70	85	1,750	2	80	100
1123-1563	0983-1343	850	1 & 1-1/2	100	120	1,750	3	115	145
1820-2333	1583-2053	1,140	37,257	120	145	1,750	3	130	150

Notes:

* = 3-Phase Motors are 1140 RPM

Air throw data based on 30 ft. ceiling height with no obstructions where velocity drops to 50 fpm

AWEF DATA

Hot Gas Defrost

Rating Conditions/ DOE mandated, test conditions per AHRI 1250

Testing conditions: COOLER: 10°F TD, 25°F SST, <50% RH/ FREEZER: 10°F TD, -20°F SST, <50% RH_t

FPI	Model	Fan Diameter	Cooler			
		in (mm)	R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C
			AWEF	AWEF	AWEF	AWEF
6	HEH0540*S6HMA	24 (610)	-	-	-	-
6	HEH0630*S6HMA	24 (610)	-	9.00	9.00	-
6	HEH0805*S6HMA	24 (610)	-	-	-	-
6	HEH0925*S6HMA	24 (610)	-	9.00	9.00	-
6	HEH1125*S6HMA	24 (610)	-	-	-	-
6	HEH1210*S6HMA	24 (610)	-	9.00	9.00	-
4	HEH0480*S4HMA	24 (610)	-	-	-	-
4	HEH0565*S4HMA	24 (610)	-	-	-	-
4	HEH0730*S4HMA	24 (610)	-	-	-	-
4	HEH0845*S4HMA	24 (610)	-	9.00	9.00	-
4	HEH1010*S4HMA	24 (610)	-	-	-	-
4	HEH1085*S4HMA	24 (610)	-	-	-	-

FPI	Model	Fan Diameter	Freezer			
		in (mm)	R-404A/ R-507A	R-448A/ R-449A	R-407A/ R-407F	R-407C
			AWEF	AWEF	AWEF	AWEF
6	HEH0540*S6HMA	24 (610)	-	4.15	4.15	-
6	HEH0630*S6HMA	24 (610)	4.15	4.15	4.15	-
6	HEH0805*S6HMA	24 (610)	4.15	4.15	4.15	-
6	HEH0925*S6HMA	24 (610)	4.15	4.15	4.15	-
6	HEH1125*S6HMA	24 (610)	4.15	4.15	4.15	-
6	HEH1210*S6HMA	24 (610)	4.15	4.15	4.15	-
4	HEH0480*S4HMA	24 (610)	-	4.15	4.15	-
4	HEH0565*S4HMA	24 (610)	-	4.15	4.15	-
4	HEH0730*S4HMA	24 (610)	-	4.15	4.15	-
4	HEH0845*S4HMA	24 (610)	-	4.15	4.15	-
4	HEH1010*S4HMA	24 (610)	-	4.15	4.15	-
4	HEH1085*S4HMA	24 (610)	-	4.15	4.15	-
6	HEH1340*S6HMA	30 (763)	4.15	4.15	4.15	-
6	HEH1560*S6HMA	30 (763)	4.15	4.15	4.15	-
6	HEH1820*S6HMA	30 (763)	4.15	4.15	4.15	-
6	HEH2330*S6HMA	30 (763)	4.15	4.15	4.15	-

Notes:

* = Electrical Code Designator (see Nomenclature details)

2-speed EC motor is required to meet minimum AWEF.

For R-404A, 30 inch fan models use 700 RPM 2-speed EC motor to meet minimum AWEF.

REFRIGERATION OPERATION

The refrigeration operation of the hot gas system is very similar to a standard refrigeration system. An external thermostat is connected to the hot gas control board at the terminal block connections labeled T-Stat and C (for common). When the normally open contact inside the thermostat closes (a call for cooling), the hot gas control board responds by activating a series of solenoids and contactors (described below) in order to initiate and maintain a refrigeration cycle. Later, when the thermostat contact opens, the hot gas control board deactivates the solenoids in a preset manner in order to safely turn off the refrigeration process and maintain an Off condition.

At initial power up, the system defaults to the **OFF** mode for a minimum of two minutes. Following the two-minute hold off period, the control circuit examines the state of the thermostat input. If the thermostat input signal is activated (closed between T- Stat and C), the system begins the refrigeration startup process. Full refrigeration mode (or **COOL** mode) is achieved when the control board has activated the solenoids necessary to provide refrigerant flow between the evaporator(s) and the condensing unit (Suction Solenoid and Liquid Line Solenoid), activated the compressor contactor, deployed the appropriate control over the condenser fans, and turned on the evaporator fans.

REFRIGERANT SOLENOID AND COMPRESSOR CONTACTOR CONTROL

The Suction Solenoid is initially activated following the power-up two-minute hold off time. It is maintained in the **ON** state until a defrost cycle is initiated. The timing of the liquid line solenoid (LLS) activation is based upon the saturated suction temperature (SST) which is calculated from the suction pressure value. If the SST is greater than 15°F, the compressor contactor is activated before the LLS is activated in order to decrease the suction pressure prior to startup. When the SST drops to -5°F, the LLS is activated. If the SST does not fall to -5°F within 2 minutes, Er12 is activated and the system goes to **OFF** mode.

If the SST is 15°F or less, the LLS is activated immediately. When the SST rises to -10°F for medium temperature applications or -20°F for low temperature applications, the compressor contactor is activated. If the SST fails to rise in 2 minutes, Er11 is activated and the system goes to **OFF** mode.

When the thermostat signal is deactivated, the liquid line solenoid is turned off immediately. The compressor contactor will stay activated until the suction pressure falls below the pre-programmed cut out pressure. The compressor contactor and all condenser fan contactors will be deactivated simultaneously. The evaporator fans will continue running.

CONDENSER FAN CONTROL

When the Condensing Unit Model is selected in the Program Review Menu; the program automatically activates the default Head Pressure Control Scheme.

METHOD

Pressure Fan Cycling (**PRES**) All fans Minimum condensing temperature: 65°F

The default **ON** and **OFF** settings are optimized to maximize energy efficiency while still providing adequate pressure for the thermostatic expansion valve(s) to work properly. The parameters are refrigerant specific. Fans are staged to minimize fluctuations in head pressure during operation.

During refrigeration operation, the hot gas controller monitors liquid pressure to determine if each fan should be **ON** or **OFF**.

These settings and other fan control options may be modified by turning on the Expert Mode (**XPRT**) in the Program Menu. See Program Review and Optional Controls for more information.

EVAPORATOR FAN CONTROL

After initial power-up, the evaporator fans will be turned off. When the system initiates the first cooling cycle, the hot gas controller monitors the temperature value of the evaporator defrost termination sensor mounted on the evaporator suction headers. When the controller determines that the suction header has reached the refreeze setpoint, the evaporator fans will be activated. If there are two evaporators, the fans will be energized by the first sensor to achieve setpoint. Once activated, the evaporator fans will continue to run until either a defrost cycle is initiated, or if the system is placed in **SERVICE** mode.

ANTI SHORT-CYCLE PROTECTION

During cooling mode, the control board is programmed to allow a minimum system **ON** time of 1 minute and a minimum **OFF** time of 2 minutes.

PUMP DOWN

At the end of each cooling cycle, when the box temperature is met, the hot gas control system will pump down and turn off the compressor.

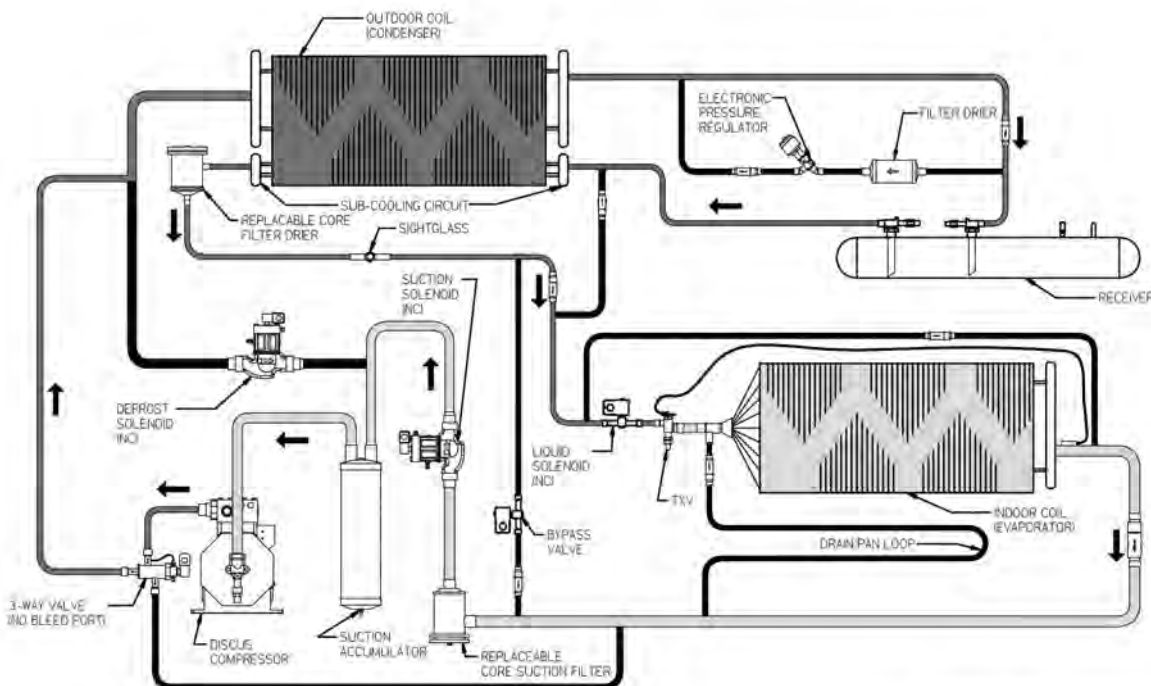
To pump down, the Liquid Line Solenoid(s) is deactivated and the compressor runs until the pressure measured at the suction accumulator falls below the pre-programmed cut out pressure value, or two minutes has elapsed. The compressor is then turned off until the start of the next cooling cycle. During the pump down process, the LED display will show **PMPD**.

Manual Pump down: A single pole, single throw switch is connected to the Service SW input on the hot gas control board. Activating this switch (closing the contact) will cause the system to pump down and shut off. While in Service mode, the evaporator fans will turn off. Note that the system will not restart until the switch contact has been opened. The hot gas controller will display **SERV** while in Service mode.

The system can also be pumped-down by pressing the **SERVICE** button twice. To restart the system, press the **CLEAR** button.

Mohave Hot Gas Refrigeration Diagram REFRIGERATION MODE

BLACK= Piping Inactive
GREY= Piping Active



DEFROST OPERATION

DEFROST TIMING/SCHEDULE PROGRAMMING

The hot gas controller can be programmed with up to 12 defrost start times. The Program Review menu section describes the process to program or delete a valid start time. Note that clearing a start time by pressing **CLEAR** and the **ENTER** will disable all start times following the one being cleared. There must be 30 minutes of elapsed time following a start of defrost before another defrost can be scheduled. A defrost cycle can be initiated manually at any time.

FORCE DEFROST MANUALLY

To manually force the start of a defrost-cycle, press the **FORCE DEFROST** button. If the system is in COOL mode, the system will pump down and go to the off mode before the defrost process is started.

DEFROST PROCESS

The defrost process has four steps: Pre-defrost (**DEF1**) pressure equalization, Defrost operation (**DEF2**), Post-defrost (**DEF3**) pressure equalization and drain down, and Refreeze (**FREZ**).

DEF1:

Pre-defrost, or defrost step 1, always follows activation of Off mode. If the system is in Cool mode when the defrost cycle is activated, the control will pump down and go to Off mode before activating pre-defrost.

The purpose of **DEF1** is to equalize the refrigerant pressures between the condensing unit receiver and the evaporator(s). This is accomplished by first deactivating the evaporator fans, and the suction solenoid. Next the Bypass Solenoid and the evaporator Pan Heater contactor are activated. The time duration of the pressure equalization is programmed as **EQUOT** in the **PROGRAM REVIEW** menu.

DEF2:

After the equalization time has elapsed, the Bypass Solenoid is deactivated. The Defrost Solenoid is activated 1 second later, followed by the 3-Way valve solenoid 1 second after that. Next, the pressure regulator control algorithm is enabled. The initial position is full open, but it quickly makes adjustments in order to stabilize the pressures and temperatures seen at the inlet of the suction accumulator.

DEF2: (cont.)

The compressor contactor turns on at the same time that the pressure regulator is activated. The ambient temperature is measured, and a determination is made of how many condenser fans should be operating. The correct number of condenser fans is activated at the same time as the compressor contactor.

During the **DEF2** operation, the pressure regulator continues to maintain the appropriate volume of refrigerant flow through the system based upon the current ambient conditions, the refrigerant type, and the type of cooling application.

Termination of defrost is accomplished by either both evaporators reaching their target termination temps, or the liquid pressure measured between the receiver and the condenser coil reaching its target pressure, or the pre-programmed fail safe time.

When one of the termination factors is realized, the compressor, condenser fan(s), and the defrost solenoid are turned off. The 3-Way valve and the Pan heaters are left on. The pressure regulator is activated to 100% open, and **DEF3** begins.

DEF3:

Post-defrost has two purposes. The first is the transfer of high pressure refrigerant at the evaporator back to the condenser receiver by way of the pressure regulator. The pressure regulator is open 100% during this step. The second purpose is drain down time for the warm evaporators. This allows the water that was melted off of the coil to drain out of the evaporator drain pan.

The time duration for this step is identical to the **DEF1** equalization time.

After the completion of the delay time period, the 3-way valve and the pan heater contactor are turned off. One second later the suction solenoid is turned on, and then one second after that the compressor turns on. The condenser fan control algorithm is also enabled. When the pressure measured at the suction sensor falls below 20 psig, the liquid line solenoid is activated and the process step changes to refreeze.

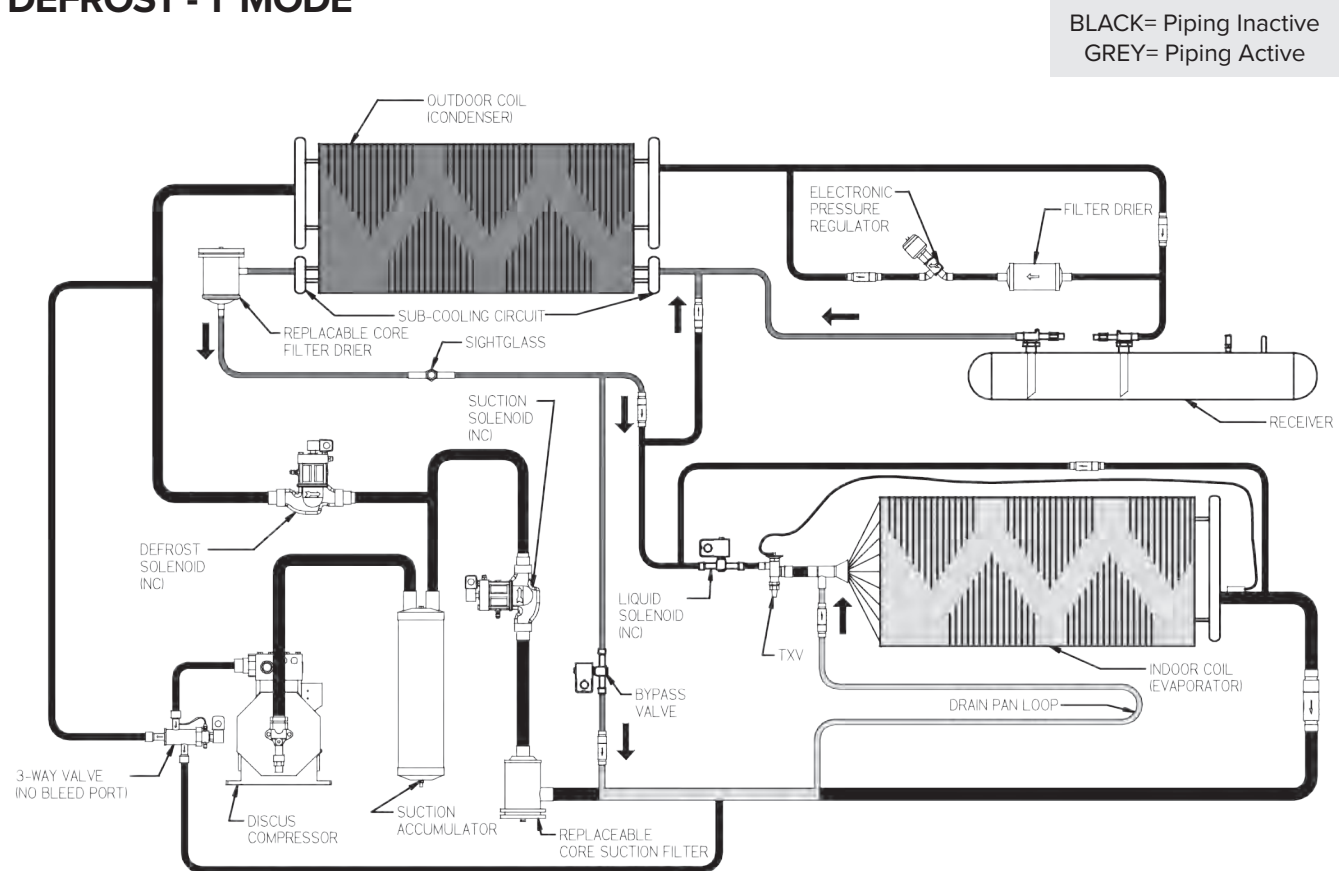
FREZ

The refreeze step is identical to cooling mode except that the evaporator fans are turned off. This is to allow the evaporator coils to freeze any remaining water that might be left over from the drain down step so that when the fans turn on, the water will not be sprayed into the refrigerated space. When the evaporator reaches the refreeze setpoint, the fans turn on and the system begins a cooling cycle. If the thermostat is satisfied, or deactivated, the system will run a cooling cycle for two minutes and then pump down and shut off.

After the compressor is energized, the suction stop valve may be pulsed to limit the suction pressure at the compressor..

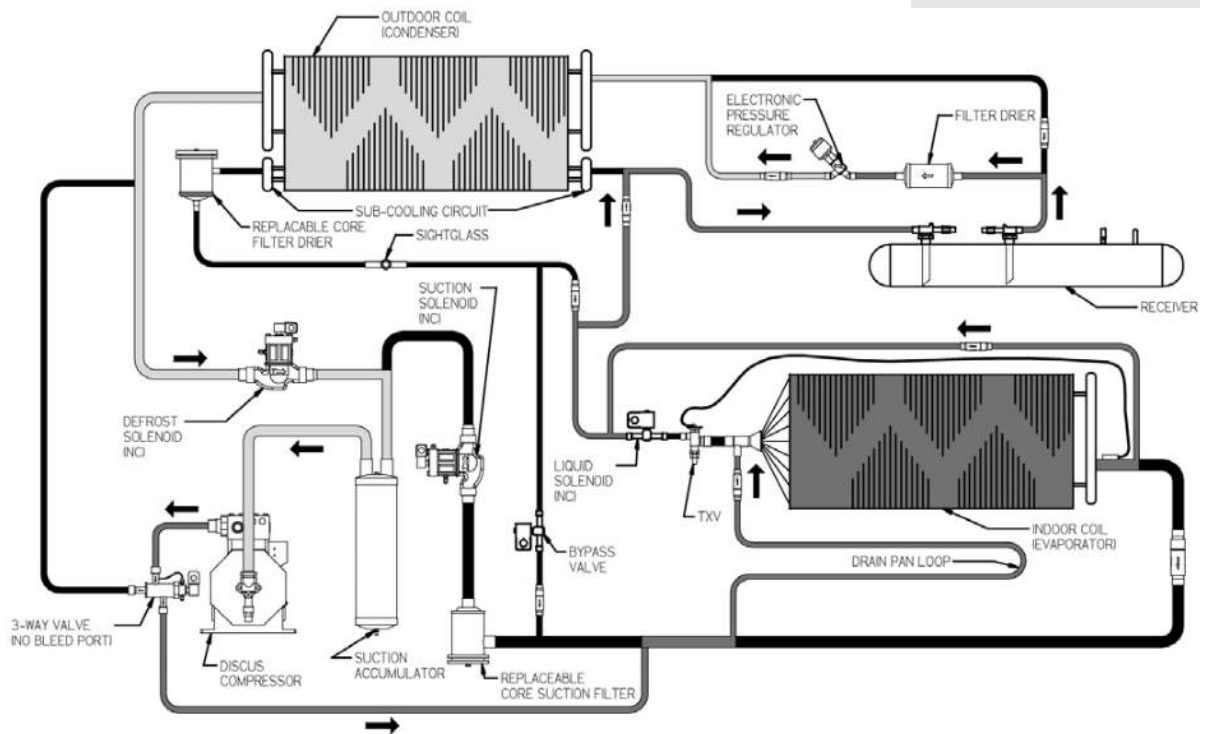
Mohave Hot Gas Defrost Cycle Diagrams

DEFROST - 1 MODE



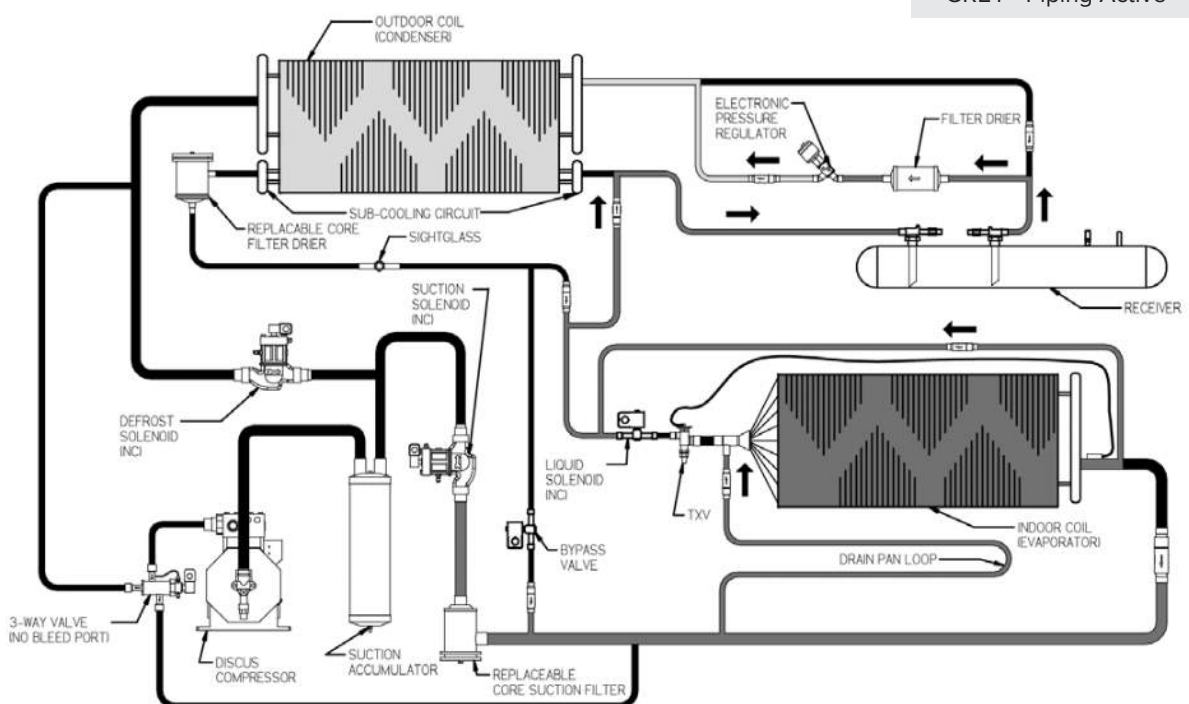
Mohave Hot Gas Defrost Cycle Diagrams (cont.)

DEFROST - 2 MODE



Mohave Hot Gas Defrost Cycle Diagrams

DEFROST - 3 MODE



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2175 West Park Place Blvd.

Stone Mountain, GA 30087

Phone: 800.537.7775 · Fax: 770.465.5900

heatcraftspd.com

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

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