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BN-HGDTB | **OCTOBER 2020**
Replaces July 2020

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

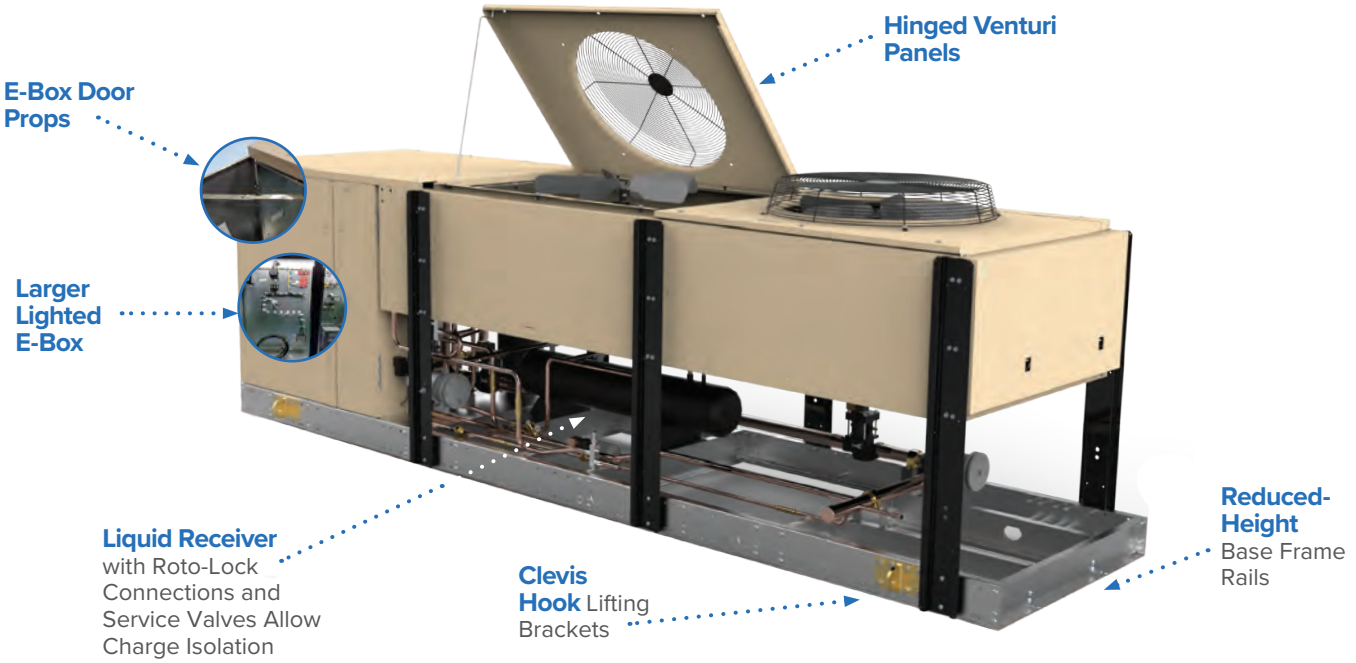
COMPONENTS

- 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)

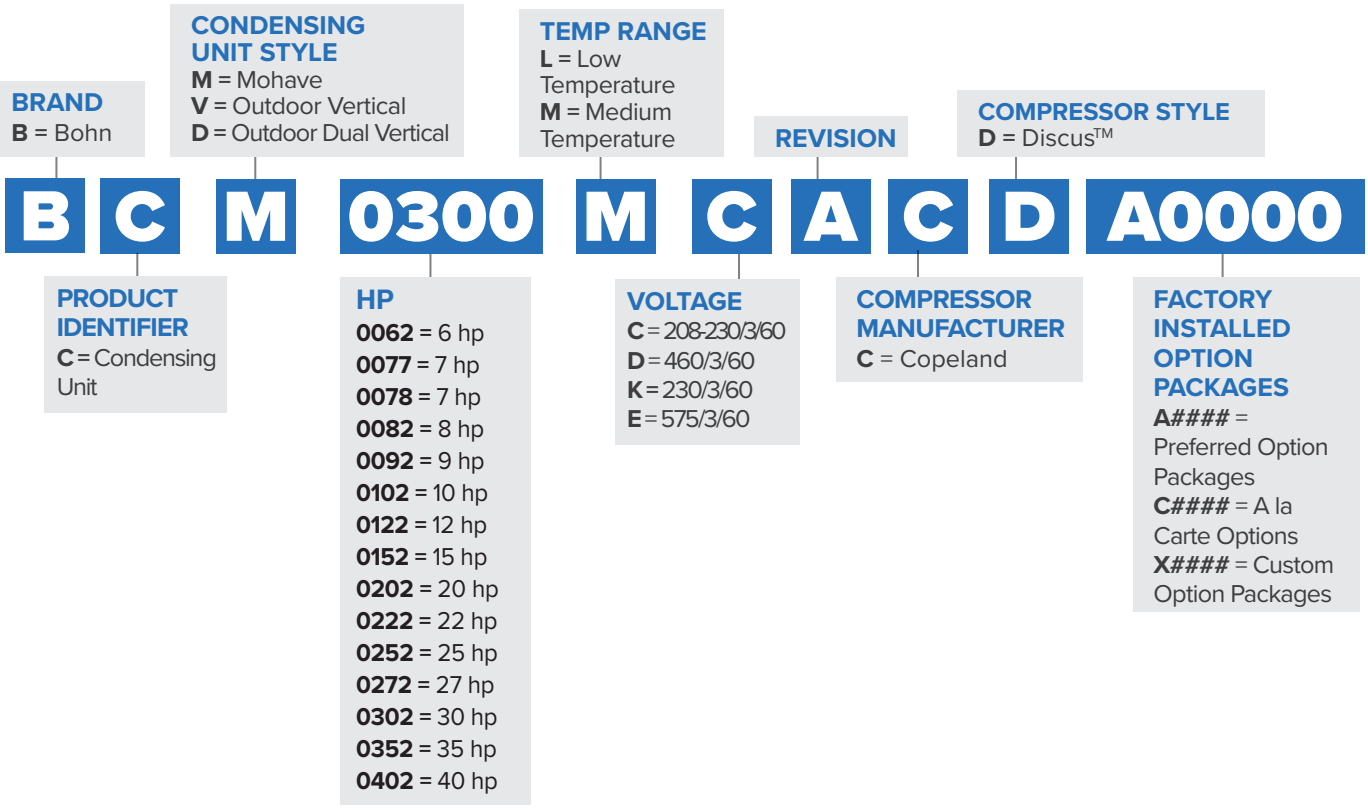
CABINET AND CONSTRUCTION

- 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

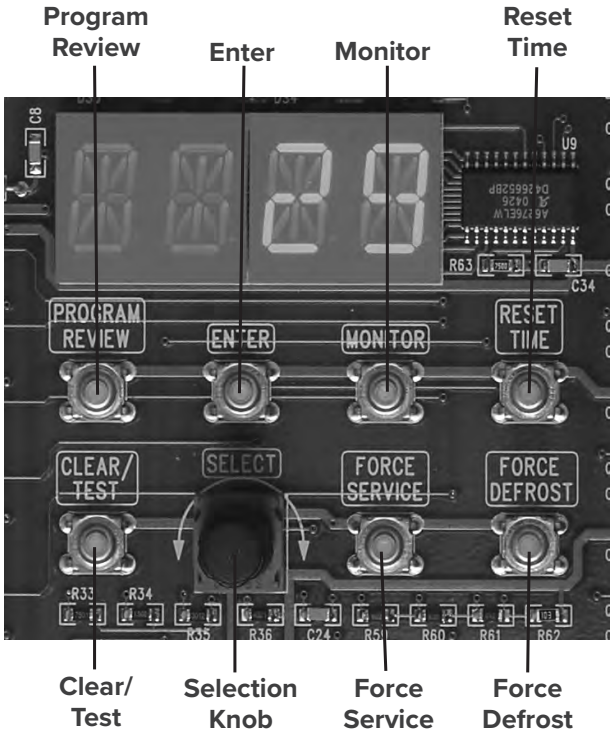
Reset Time:
Resets the time clocks of the microprocessor to 0

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.

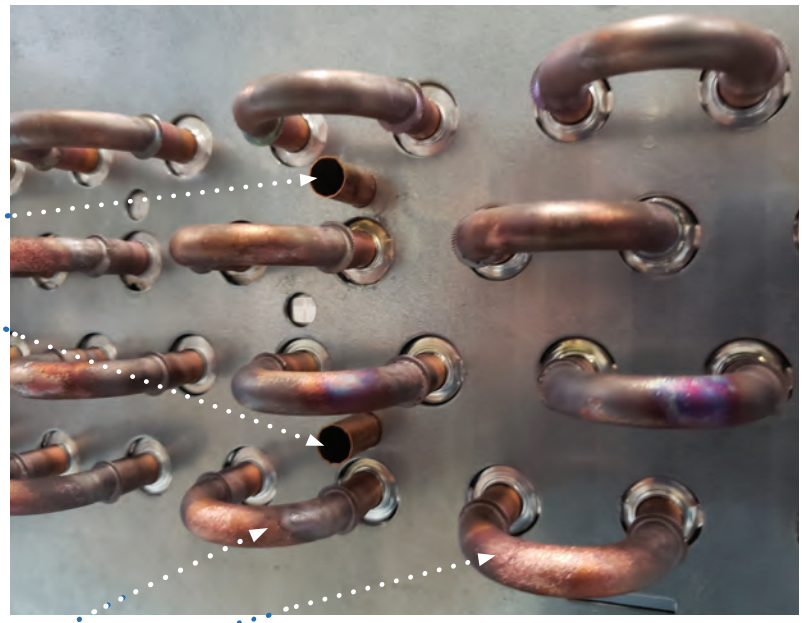
OPERATING MODES

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
DELY	Timed Delay
DEF 1	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
FREZ	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 27 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
BCM0077M^ACD	2DL3R78KE	103,600	94,050	85,030	76,590	68,760	61,550	54,880	-	33,730
BCM0078M^ACD	2DA3R89KE	116,870	106,540	96,710	87,550	79,040	71,190	63,940	51,070	-
BCM0082M^ACD	3DA3R10ME	135,030	123,250	112,210	101,700	91,870	82,760	74,270	59,180	46,260
BCM0102M^ACD	3DB3R12ME	156,280	143,060	130,560	118,800	107,870	97,620	88,050	70,770	55,560
BCM0122M^ACD	3DF3R15ME	186,240	171,340	157,160	143,370	130,490	118,240	106,870	86,400	68,350
BCM0152M^ACD	3DS3R17ME	199,810	184,350	169,150	154,950	141,420	128,710	116,490	94,430	74,980
BCM0202M^ACD	4DBNR20ME	256,530	237,320	218,390	199,480	181,010	163,710	147,210	117,930	94,950
BCM0252M^ACD	4DHNR22ME	275,720	255,030	234,700	214,770	195,380	176,640	158,750	127,240	102,500
BCM0302M^ACD	4DJNR28ME	320,690	296,410	272,630	249,690	227,200	206,330	186,530	149,880	118,180
BCM0352M^ACD	6DHNR35ME	420,950	386,300	354,070	323,180	294,080	266,140	240,400	193,760	-
BCM0402M^ACD	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
BCM0077M^ACD	**2DL3R78KE**	**99,090**	**89,970**	**81,350**	**73,290**	**65,760**	**58,860**	**52,510**	**41,390**	**32,230**
BCM0078M^ACD	**2DA3R89KE**	**111,840**	**101,920**	**92,550**	**83,810**	**75,680**	**68,170**	**61,210**	**48,850**	**-**
BCM0082M^ACD	**3DA3R10ME**	**129,000**	**117,960**	**107,360**	**97,370**	**88,020**	**79,350**	**71,240**	**56,810**	**44,380**
BCM0102M^ACD	**3DB3R12ME**	**149,450**	**137,030**	**125,020**	**113,840**	**103,450**	**93,660**	**84,500**	**67,930**	**53,260**
BCM0122M^ACD	**3DF3R15ME**	**177,720**	**163,650**	**150,200**	**137,030**	**124,800**	**113,260**	**102,510**	**82,870**	**65,530**
BCM0152M^ACD	**3DS3R17ME**	**190,450**	**175,880**	**161,570**	**148,150**	**135,330**	**123,270**	**111,600**	**90,570**	**71,910**
BCM0202M^ACD	**4DBNR20ME**	**245,020**	**227,080**	**208,560**	**190,550**	**172,820**	**156,280**	**140,480**	**112,450**	**90,460**
BCM0252M^ACD	**4DHNR22ME**	**262,680**	**243,920**	**224,230**	**205,390**	**186,590**	**168,590**	**151,520**	**121,380**	**97,800**
BCM0302M^ACD	**4DJNR28ME**	**304,930**	**281,960**	**259,490**	**237,160**	**216,510**	**196,970**	**177,850**	**143,060**	**113,040**
BCM0352M^ACD	**6DHNR35ME**	**400,780**	**368,140**	**337,650**	**308,250**	**280,790**	**254,530**	**229,620**	**184,980**	**-**
BCM0402M^ACD	**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
BCM0077M^ACD	2DL3R78KE	94,560	85,880	77,670	69,990	62,800	56,220	50,140	39,510	30,740
BCM0078M^ACD	2DA3R89KE	106,700	97,280	88,380	80,050	72,290	65,130	58,440	46,600	-
BCM0082M^ACD	3DA3R10ME	123,080	112,670	102,630	93,180	84,300	76,040	68,320	54,510	42,560
BCM0102M^ACD	3DB3R12ME	142,460	130,730	119,480	108,970	99,000	89,700	80,960	65,070	50,930
BCM0122M^ACD	3DF3R15ME	169,160	155,930	143,240	130,800	119,230	108,300	98,100	79,360	62,740
BCM0152M^ACD	3DS3R17ME	181,030	167,390	153,950	141,330	129,400	117,800	106,920	86,800	68,860
BCM0202M^ACD	4DBNR20ME	233,620	216,460	198,620	181,500	164,720	148,960	133,840	107,060	86,090
BCM0252M^ACD	4DHNR22ME	250,240	231,960	213,750	195,800	177,780	160,690	144,390	115,620	93,150
BCM0302M^ACD	4DJNR28ME	288,210	267,440	245,780	225,330	205,780	187,260	169,130	136,450	107,980
BCM0352M^ACD	6DHNR35ME	380,390	349,720	321,060	293,380	267,280	242,480	218,720	176,160	-
BCM0402M^ACD	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

PERFORMANCE DATA – R-404A/R-507A

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	85,460	77,690	70,310	63,350	56,900	50,940	45,440	35,790	27,790
BCM0078M^ACD	2DA3R89KE	96,390	87,990	80,010	72,530	65,530	59,010	52,950	42,110	-
BCM0082M^ACD	3DA3R10ME	111,660	102,340	93,430	84,990	77,040	69,610	62,620	49,990	38,900
BCM0102M^ACD	3DB3R12ME	128,690	118,240	108,430	99,000	90,080	81,710	73,810	59,350	46,280
BCM0122M^ACD	3DF3R15ME	152,060	140,660	129,180	118,400	108,100	98,510	89,310	72,440	57,260
BCM0152M^ACD	3DS3R17ME	-	150,000	138,650	127,630	117,100	106,760	97,080	79,150	62,810
BCM0202M^ACD	4DBNR20ME	211,310	195,140	179,590	163,990	149,100	134,640	120,900	96,520	77,480
BCM0252M^ACD	4DHNR22ME	225,890	209,240	193,230	176,520	160,640	145,140	130,550	104,320	83,960
BCM0302M^ACD	4DJNR28ME	-	-	219,030	201,390	184,570	167,820	151,900	123,100	98,060
BCM0352M^ACD	6DHNR35ME	339,140	312,270	287,020	263,230	239,520	217,560	196,860	158,380	-
BCM0402M^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

PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	98,310	88,610	79,630	71,390	63,850	56,970	50,640	39,430	29,630
BCM0078M^ACD	2DA3R89KE	110,920	100,130	90,040	80,620	71,900	63,910	56,570	43,860	33,510
BCM0082M^ACD	3DA3R10ME	132,150	120,140	108,600	97,690	87,350	77,730	68,780	53,180	40,700
BCM0102M^ACD	3DB3R12ME	153,810	140,250	127,270	114,850	103,100	92,170	81,930	63,970	49,500
BCM0122M^ACD	3DF3R15ME	177,960	162,390	147,270	132,820	119,040	106,170	94,230	73,240	56,600
BCM0152M^ACD	3DS3R17ME	198,900	182,390	166,230	150,810	135,820	121,650	108,290	84,030	63,460
BCM0202M^ACD	4DBNR20ME	259,700	236,030	213,440	192,400	172,760	154,700	138,030	108,280	82,720
BCM0252M^ACD	4DHNR22ME	284,440	258,620	234,300	211,230	189,770	169,980	151,460	118,810	90,720
BCM0302M^ACD	4DJNR28ME	322,760	296,670	271,180	246,460	222,870	199,960	177,920	137,350	101,000
BCM0352M^ACD	6DHNR35ME	407,630	374,650	342,160	310,230	279,470	250,120	222,530	173,280	133,540
BCM0402M^ACD	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
BCM0077M^ACD	**2DL3R78KE**	**95,000**	**85,630**	**76,970**	**69,010**	**61,720**	**55,070**	**48,950**	**38,090**	**28,580**
BCM0078M^ACD	**2DA3R89KE**	**107,060**	**96,700**	**86,920**	**77,810**	**69,390**	**61,660**	**54,560**	**-**	**32,210**
BCM0082M^ACD	**3DA3R10ME**	**127,490**	**115,940**	**104,820**	**94,290**	**84,280**	**74,950**	**66,240**	**50,950**	**38,630**
BCM0102M^ACD	**3DB3R12ME**	**148,480**	**135,530**	**122,930**	**110,920**	**99,600**	**88,950**	**78,990**	**61,420**	**47,110**
BCM0122M^ACD	**3DF3R15ME**	**171,360**	**156,420**	**141,920**	**128,060**	**114,730**	**102,290**	**90,710**	**70,240**	**53,810**
BCM0152M^ACD	**3DS3R17ME**	**191,690**	**175,920**	**160,450**	**145,630**	**131,190**	**117,480**	**104,520**	**80,790**	**60,330**
BCM0202M^ACD	**4DBNR20ME**	**250,640**	**227,800**	**206,000**	**185,740**	**166,720**	**149,240**	**133,150**	**104,350**	**79,540**
BCM0252M^ACD	**4DHNR22ME**	**274,320**	**249,470**	**226,070**	**203,810**	**183,080**	**163,920**	**146,050**	**114,450**	**87,220**
BCM0302M^ACD	**4DJNR28ME**	**310,260**	**285,290**	**260,820**	**237,070**	**214,130**	**192,310**	**170,960**	**131,820**	**96,710**
BCM0352M^ACD	**6DHNR35ME**	**394,900**	**363,230**	**331,960**	**301,120**	**271,320**	**242,940**	**215,980**	**167,790**	**128,560**
BCM0402M^ACD	**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
BCM0077M^ACD	2DL3R78KE	91,670	82,630	74,280	66,600	59,560	53,140	47,210	36,710	27,490
BCM0078M^ACD	2DA3R89KE	103,160	93,190	83,760	74,980	66,850	59,390	52,520	-	30,890
BCM0082M^ACD	3DA3R10ME	122,790	111,690	101,030	90,810	81,140	72,070	63,600	48,620	36,440
BCM0102M^ACD	3DB3R12ME	142,960	130,650	118,470	106,890	95,950	85,610	75,920	-	44,580
BCM0122M^ACD	3DF3R15ME	164,710	150,410	136,370	123,080	110,290	98,250	87,030	67,030	50,750
BCM0152M^ACD	3DS3R17ME	184,520	169,480	154,690	140,450	126,530	113,210	100,610	77,450	57,150
BCM0202M^ACD	4DBNR20ME	241,480	219,510	198,320	178,860	160,600	143,840	128,180	100,330	76,280
BCM0252M^ACD	4DHNR22ME	264,150	240,260	217,760	196,330	176,160	157,740	140,530	109,990	83,620
BCM0302M^ACD	4DJNR28ME	297,450	273,610	250,180	227,370	205,250	184,300	164,060	126,230	92,320
BCM0352M^ACD	6DHNR35ME	382,020	351,680	321,640	291,890	263,070	235,580	209,250	162,150	123,420
BCM0402M^ACD	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

PERFORMANCE DATA – R-448A/R-449A

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	84,970	76,600	68,850	61,730	55,190	49,210	43,680	33,880	25,230
BCM0078M^ACD	2DA3R89KE	95,370	86,110	77,380	69,240	61,700	54,770	48,370	37,280	28,230
BCM0082M^ACD	3DA3R10ME	113,330	103,090	93,240	83,730	74,670	66,140	58,110	43,740	31,820
BCM0102M^ACD	3DB3R12ME	132,020	120,470	109,290	98,590	88,310	78,590	69,420	-	39,130
BCM0122M^ACD	3DF3R15ME	151,310	138,220	125,410	113,020	101,110	89,940	79,280	60,150	44,160
BCM0152M^ACD	3DS3R17ME	-	-	143,210	130,130	117,250	104,910	92,900	70,680	50,680
BCM0202M^ACD	4DBNR20ME	223,030	202,730	183,360	165,130	148,180	132,630	118,060	92,050	69,500
BCM0252M^ACD	4DHNR22ME	-	221,520	200,830	181,020	162,530	145,310	129,300	100,810	76,100
BCM0302M^ACD	4DJNR28ME	-	-	-	207,140	187,300	167,780	149,030	114,410	83,210
BCM0352M^ACD	6DHNR35ME	-	328,230	300,620	273,070	246,000	220,220	195,430	150,370	112,600
BCM0402M^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

HEAD FAN REQUIRED

PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	101,870	91,750	82,460	73,960	66,230	59,220	52,800	41,440	31,470
BCM0078M^ACD	2DA3R89KE	114,660	103,390	92,900	83,130	74,120	65,890	58,360	45,320	34,690
BCM0082M^ACD	3DA3R10ME	137,440	124,590	112,240	100,390	89,220	78,870	69,360	53,290	41,680
BCM0102M^ACD	3DB3R12ME	159,080	144,670	130,850	117,580	105,020	93,410	82,620	64,230	50,630
BCM0122M^ACD	3DF3R15ME	181,800	165,900	150,380	135,230	120,760	107,250	94,800	73,530	58,240
BCM0152M^ACD	3DS3R17ME	202,030	185,180	168,670	152,700	137,480	122,910	109,240	84,890	64,970
BCM0202M^ACD	4DBNR20ME	265,280	241,060	217,870	196,410	176,390	158,070	141,250	111,220	85,250
BCM0252M^ACD	4DHNR22ME	289,200	263,000	238,160	215,160	193,460	173,410	154,920	122,040	93,540
BCM0302M^ACD	4DJNR28ME	326,980	299,790	274,000	249,130	225,250	202,770	181,070	141,180	105,840
BCM0352M^ACD	6DHNR35ME	415,640	381,710	348,640	316,130	284,890	255,350	227,520	177,930	137,730
BCM0402M^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
BCM0077M^ACD	**2DL3R78KE**	**98,150**	**88,400**	**79,420**	**71,230**	**63,790**	**57,030**	**50,850**	**39,930**	**30,360**
BCM0078M^ACD	**2DA3R89KE**	**110,320**	**99,540**	**89,370**	**79,950**	**71,270**	**63,350**	**56,080**	**43,500**	**33,250**
BCM0082M^ACD	**3DA3R10ME**	**131,960**	**119,620**	**107,710**	**96,420**	**85,680**	**75,710**	**66,530**	**50,990**	**39,700**
BCM0102M^ACD	**3DB3R12ME**	**152,860**	**139,220**	**125,810**	**113,040**	**100,970**	**89,780**	**79,370**	**61,550**	**48,290**
BCM0122M^ACD	**3DF3R15ME**	**174,320**	**159,280**	**144,250**	**129,770**	**115,880**	**102,910**	**90,970**	**70,490**	**55,730**
BCM0152M^ACD	**3DS3R17ME**	**194,060**	**178,020**	**162,250**	**146,920**	**132,310**	**118,270**	**105,100**	**81,360**	**61,770**
BCM0202M^ACD	**4DBNR20ME**	**255,190**	**231,900**	**209,610**	**188,910**	**169,650**	**152,000**	**135,800**	**106,850**	**81,790**
BCM0252M^ACD	**4DHNR22ME**	**278,130**	**252,980**	**229,110**	**206,950**	**186,050**	**166,830**	**148,890**	**117,210**	**89,720**
BCM0302M^ACD	**4DJNR28ME**	**313,350**	**287,290**	**262,700**	**238,880**	**216,100**	**194,590**	**173,660**	**135,770**	**102,150**
BCM0352M^ACD	**6DHNR35ME**	**401,150**	**368,720**	**337,030**	**305,730**	**275,670**	**247,080**	**220,110**	**171,840**	**132,200**
BCM0402M^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
BCM0077M^ACD	2DL3R78KE	94,410	85,010	76,360	68,480	61,310	54,820	48,870	38,390	29,200
BCM0078M^ACD	2DA3R89KE	105,950	95,600	85,820	76,770	68,420	60,790	53,790	41,670	31,800
BCM0082M^ACD	3DA3R10ME	126,460	114,670	103,340	92,430	82,110	72,520	63,680	48,660	37,690
BCM0102M^ACD	3DB3R12ME	146,560	133,460	120,680	108,450	96,940	86,100	76,050	58,800	45,880
BCM0122M^ACD	3DF3R15ME	166,770	152,420	138,070	124,300	110,920	98,500	87,040	67,340	53,090
BCM0152M^ACD	3DS3R17ME	186,170	170,900	155,840	141,180	127,170	113,560	100,840	77,830	58,550
BCM0202M^ACD	4DBNR20ME	245,110	222,750	201,290	181,490	162,880	146,010	130,300	102,410	78,200
BCM0252M^ACD	4DHNR22ME	267,020	242,900	220,000	198,680	178,570	160,150	142,820	112,300	85,790
BCM0302M^ACD	4DJNR28ME	299,530	274,650	251,220	228,520	206,810	186,300	166,430	130,330	98,530
BCM0352M^ACD	6DHNR35ME	386,650	355,690	325,010	295,300	266,350	238,800	212,590	165,550	126,520
BCM0402M^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

PERFORMANCE DATA – R-407A/R-407F

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	86,870	78,190	70,210	62,940	56,320	50,330	44,830	35,200	26,770
BCM0078M^ACD	2DA3R89KE	97,280	87,710	78,720	70,390	62,690	55,660	49,210	38,000	28,870
BCM0082M^ACD	3DA3R10ME	115,490	104,760	94,460	84,450	74,970	66,130	57,950	43,960	33,670
BCM0102M^ACD	3DB3R12ME	133,760	121,910	110,300	99,100	88,550	78,560	69,250	53,100	40,920
BCM0122M^ACD	3DF3R15ME	151,680	138,670	125,750	113,010	101,010	89,630	79,030	60,840	47,520
BCM0152M^ACD	3DS3R17ME	-	-	143,210	130,030	116,980	104,520	92,560	70,820	52,150
BCM0202M^ACD	4DBNR20ME	224,910	204,320	184,560	166,240	149,210	133,690	119,180	93,330	70,850
BCM0252M^ACD	4DHNR22ME	-	222,640	201,900	182,030	163,630	146,390	130,490	102,290	77,660
BCM0302M^ACD	4DJNR28ME	-	-	-	207,430	188,220	169,450	151,810	119,500	91,510
BCM0352M^ACD	6DHNR35ME	-	-	301,440	274,190	247,250	221,900	197,220	152,580	114,740
BCM0402M^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

HEAD FAN REQUIRED

PERFORMANCE DATA – R-407C

Medium Temperature Models - Discus™ Compressors

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	92,730	82,930	73,820	65,420	57,800	-	44,830	34,620	27,050
BCM0078M^ACD	2DA3R89KE	103,980	93,250	83,190	73,890	65,350	57,650	50,710	38,970	29,920
BCM0082M^ACD	3DA3R10ME	121,840	110,450	99,540	89,280	79,690	-	62,670	48,580	37,270
BCM0102M^ACD	3DB3R12ME	142,190	129,170	116,800	105,180	94,260	84,160	-	58,450	45,210
BCM0122M^ACD	3DF3R15ME	164,120	149,330	135,130	121,500	108,700	96,870	85,880	66,830	51,960
BCM0152M^ACD	3DS3R17ME	180,910	165,290	150,170	135,810	122,090	109,260	97,160	75,610	57,200
BCM0202M^ACD	4DBNR20ME	234,800	212,720	191,560	171,890	153,390	135,710	118,660	85,270	51,460
BCM0252M^ACD	4DHNR22ME	-	-	214,460	192,720	172,070	152,880	135,220	104,740	80,400
BCM0302M^ACD	4DJNR28ME	-	-	244,300	220,870	198,920	178,220	158,960	123,890	92,670
BCM0352M^ACD	6DHNR35ME	374,070	336,770	302,770	271,610	243,550	218,000	194,490	151,300	108,310
BCM0402M^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
BCM0077M^ACD	**2DL3R78KE**	**89,820**	**80,260**	**71,370**	**63,190**	**55,790**	**49,180**	**43,250**	**33,480**	**26,360**
BCM0078M^ACD	**2DA3R89KE**	**100,720**	**90,270**	**80,470**	**71,410**	**63,090**	**55,580**	**48,830**	**37,400**	**28,610**
BCM0082M^ACD	**3DA3R10ME**	**117,810**	**106,860**	**96,340**	**86,420**	**77,120**	**68,510**	**60,490**	**46,570**	**35,190**
BCM0102M^ACD	**3DB3R12ME**	**137,540**	**125,130**	**113,180**	**101,930**	**91,320**	**81,460**	**-**	**56,130**	**42,740**
BCM0122M^ACD	**3DF3R15ME**	**158,560**	**144,350**	**130,540**	**117,510**	**105,170**	**93,620**	**82,900**	**64,130**	**49,250**
BCM0152M^ACD	**3DS3R17ME**	**175,030**	**160,020**	**145,440**	**131,570**	**118,260**	**105,780**	**93,900**	**72,610**	**54,100**
BCM0202M^ACD	**4DBNR20ME**	**225,760**	**204,380**	**184,190**	**164,970**	**147,160**	**130,190**	**113,810**	**81,870**	**49,640**
BCM0252M^ACD	**4DHNR22ME**	**-**	**-**	**205,570**	**184,760**	**165,340**	**147,060**	**130,260**	**100,780**	**76,650**
BCM0302M^ACD	**4DJNR28ME**	**-**	**-**	**234,560**	**212,540**	**191,820**	**172,120**	**153,740**	**119,900**	**88,820**
BCM0352M^ACD	**6DHNR35ME**	**359,820**	**324,290**	**291,950**	**262,200**	**235,390**	**210,730**	**187,970**	**145,620**	**102,680**
BCM0402M^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
BCM0077M^ACD	2DL3R78KE	86,940	77,620	68,940	61,010	53,830	47,430	41,720	32,390	25,720
BCM0078M^ACD	2DA3R89KE	97,510	87,330	77,790	68,940	60,860	53,570	46,970	35,850	27,290
BCM0082M^ACD	3DA3R10ME	113,840	103,300	93,140	83,530	74,450	66,030	58,180	44,340	32,830
BCM0102M^ACD	3DB3R12ME	133,120	121,050	109,500	98,590	88,260	78,610	69,560	53,520	40,000
BCM0122M^ACD	3DF3R15ME	153,030	139,340	126,150	113,410	101,430	90,180	79,660	61,100	46,090
BCM0152M^ACD	3DS3R17ME	169,190	154,750	140,710	127,260	114,240	102,080	90,460	69,310	-
BCM0202M^ACD	4DBNR20ME	217,060	195,910	176,540	158,200	141,130	124,830	109,090	78,680	48,080
BCM0252M^ACD	4DHNR22ME	-	-	196,670	176,920	158,580	141,380	125,370	96,850	72,870
BCM0302M^ACD	4DJNR28ME	-	-	225,190	204,530	185,030	166,390	148,860	116,050	85,100
BCM0352M^ACD	6DHNR35ME	345,390	311,650	280,870	252,360	226,730	203,150	181,190	139,600	96,740
BCM0402M^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

PERFORMANCE DATA – R-407C

Medium Temperature Models - Discus™ Compressors (cont.)

Please consult AWEF table on page 27 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
BCM0077M^ACD	2DL3R78KE	81,330	72,490	64,290	56,830	50,110	44,130	38,860	30,410	24,630
BCM0078M^ACD	2DA3R89KE	91,300	81,630	72,590	64,200	56,570	49,630	43,360	32,810	24,710
BCM0082M^ACD	3DA3R10ME	106,110	96,220	86,690	77,600	68,960	60,800	53,180	39,350	27,500
BCM0102M^ACD	3DB3R12ME	123,950	112,720	101,930	91,560	81,680	72,300	63,490	47,480	33,580
BCM0122M^ACD	3DF3R15ME	141,910	129,110	116,760	104,780	93,460	82,690	72,420	54,210	38,840
BCM0152M^ACD	3DS3R17ME	-	144,180	131,200	118,410	106,120	94,320	83,140	62,080	43,030
BCM0202M^ACD	4DBNR20ME	199,470	180,200	162,060	145,370	129,600	114,750	100,440	73,070	45,790
BCM0252M^ACD	4DHNR22ME	-	-	179,930	162,610	146,310	130,810	116,200	89,360	65,570
BCM0302M^ACD	4DJNR28ME	-	-	207,490	189,650	172,310	155,730	139,800	108,930	78,060
BCM0352M^ACD	6DHNR35ME	316,320	285,980	258,070	232,450	208,770	187,160	166,550	126,620	84,110
BCM0402M^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
HEAD FAN REQUIRED

PERFORMANCE DATA – R-404A/R-507A

Low Temperature Models - Discus™ Compressors

Please consult AWEF table on page 28 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
BCM0062LAACD	3DA3F28KE	60,020	53,460	47,380	41,780	36,650	-	27,740	23,890	20,420
BCM0077LAACD	3DB3F33KE	70,600	62,890	55,800	49,280	43,300	37,830	32,850	28,260	24,050
BCM0092LAACD	3DF3F40KE	85,110	75,880	67,340	59,430	52,140	45,490	39,440	33,930	28,920
BCM0102LAACD	3DS3F46KE	94,090	84,500	75,510	67,100	59,280	52,040	45,400	39,270	33,620
BCM0122LAACD	4DBNF54KE	106,220	94,990	84,790	75,340	66,630	58,520	50,870	43,460	36,190
BCM0152LAACD	4DHNF63KE	123,370	110,980	99,490	88,840	78,860	69,510	60,670	52,150	43,820
BCM0222LAACD	4DJNF76KE	144,000	130,640	117,990	105,670	94,020	82,970	72,350	62,100	52,140
BCM0272LAACD	6DHNF93KE	176,470	160,400	144,550	129,090	113,860	99,530	86,170	73,740	62,470
BCM0302LAACD	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
BCM0062LAACD	**3DA3F28KE**	**57,600**	**51,310**	**45,480**	**40,090**	**35,130**	**-**	**26,500**	**22,730**	**19,320**
BCM0077LAACD	**3DB3F33KE**	**67,790**	**60,420**	**53,640**	**47,370**	**41,600**	**36,320**	**31,470**	**26,980**	**22,840**
BCM0092LAACD	**3DF3F40KE**	**81,790**	**72,940**	**64,740**	**57,110**	**50,080**	**43,640**	**37,770**	**32,410**	**27,500**
BCM0102LAACD	**3DS3F46KE**	**90,570**	**81,350**	**72,720**	**64,630**	**57,090**	**50,100**	**43,660**	**37,680**	**32,170**
BCM0122LAACD	**4DBNF54KE**	**101,820**	**91,100**	**81,330**	**72,230**	**63,790**	**55,860**	**48,310**	**40,980**	**33,710**
BCM0152LAACD	**4DHNF63KE**	**118,060**	**106,160**	**95,070**	**84,780**	**75,120**	**66,040**	**57,460**	**49,170**	**41,050**
BCM0222LAACD	**4DJNF76KE**	**137,670**	**124,880**	**112,690**	**100,880**	**89,600**	**78,890**	**68,560**	**58,560**	**48,790**
BCM0272LAACD	**6DHNF93KE**	**168,430**	**153,170**	**138,000**	**123,150**	**108,560**	**94,570**	**81,610**	**69,470**	**58,340**
BCM0302LAACD	**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
BCM0062LAACD	3DA3F28KE	55,190	49,150	43,570	38,380	33,610	29,210	25,210	21,520	18,150
BCM0077LAACD	3DB3F33KE	64,990	57,970	51,470	45,450	39,890	34,780	30,060	25,670	21,580
BCM0092LAACD	3DF3F40KE	78,480	70,000	62,130	54,790	48,020	41,790	36,090	30,870	26,080
BCM0102LAACD	3DS3F46KE	86,920	78,110	69,830	62,060	54,800	48,030	41,770	35,960	30,560
BCM0122LAACD	4DBNF54KE	97,390	87,230	77,820	69,050	60,870	53,090	45,680	38,400	31,140
BCM0152LAACD	4DHNF63KE	113,020	101,480	90,810	80,890	71,540	62,750	54,410	46,320	38,450
BCM0222LAACD	4DJNF76KE	131,450	119,220	107,570	96,110	85,290	74,820	64,740	54,890	45,340
BCM0272LAACD	6DHNF93KE	-	145,830	131,400	117,170	103,190	89,580	77,020	65,200	54,260
BCM0302LAACD	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 28 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
BCM0062L^ACD	3DA3F28KE	50,290	44,790	39,660	34,860	30,400	26,270	22,460	18,920	15,640
BCM0077L^ACD	3DB3F33KE	59,430	53,050	47,130	41,580	36,420	31,630	27,160	22,960	18,980
BCM0092L^ACD	3DF3F40KE	71,790	64,070	56,870	50,120	43,850	38,030	32,700	27,760	23,210
BCM0102L^ACD	3DS3F46KE	79,300	71,280	63,730	56,580	49,830	43,530	37,650	32,150	27,000
BCM0122L^ACD	4DBNF54KE	88,350	79,120	70,510	62,390	54,690	47,240	40,050	32,930	25,670
BCM0152L^ACD	4DHNF63KE	-	-	82,730	73,580	64,910	56,700	48,870	41,250	33,790
BCM0222L^ACD	4DJNF76KE	-	-	-	-	76,580	66,660	56,960	47,500	38,280
BCM0272L^ACD	6DHNF93KE	-	-	-	-	-	79,670	67,790	56,440	46,100
BCM0302L^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 28 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
BCM0062LAACD	3DA3F28KE	54,260	47,320	-	35,440	30,440	26,040	22,190	18,830	15,940
BCM0077LAACD	3DB3F33KE	64,670	56,790	49,770	43,440	37,780	32,650	27,990	23,630	19,470
BCM0092LAACD	3DF3F40KE	79,460	69,370	60,340	52,220	44,940	-	32,610	27,340	22,490
BCM0102LAACD	3DS3F46KE	86,720	75,720	65,880	57,020	49,090	41,960	35,590	29,800	24,520
BCM0122LAACD	4DBNF54KE	99,230	87,580	76,720	66,480	57,040	48,400	40,640	33,740	27,800
BCM0152LAACD	4DHNF63KE	112,320	99,930	88,280	77,360	67,210	57,960	49,690	42,370	36,190
BCM0222LAACD	4DJNF76KE	139,370	122,450	107,440	93,780	81,560	70,270	59,690	49,330	-
BCM0272LAACD	6DHNF93KE	161,450	142,480	125,060	108,740	93,900	80,360	67,950	56,480	45,800
BCM0302LAACD	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
BCM0062LAACD	**3DA3F28KE**	**52,270**	**45,480**	**-**	**33,900**	**29,010**	**24,710**	**20,950**	**17,650**	**14,820**
BCM0077LAACD	**3DB3F33KE**	**62,390**	**54,650**	**47,760**	**41,530**	**35,980**	**30,910**	**26,330**	**22,030**	**17,930**
BCM0092LAACD	**3DF3F40KE**	**76,470**	**66,640**	**57,830**	**49,910**	**42,760**	**36,400**	**30,650**	**25,440**	**20,640**
BCM0102LAACD	**3DS3F46KE**	**83,420**	**72,710**	**63,120**	**54,460**	**46,690**	**39,720**	**33,430**	**27,730**	**22,480**
BCM0122LAACD	**4DBNF54KE**	**95,230**	**84,020**	**73,420**	**63,470**	**54,270**	**45,820**	**-**	**31,440**	**25,590**
BCM0152LAACD	**4DHNF63KE**	**107,890**	**95,900**	**84,620**	**74,060**	**64,220**	**55,230**	**47,190**	**40,050**	**33,990**
BCM0222LAACD	**4DJNF76KE**	**133,880**	**117,420**	**102,810**	**89,420**	**77,480**	**66,400**	**56,010**	**45,790**	**35,610**
BCM0272LAACD	**6DHNF93KE**	**154,650**	**136,280**	**119,370**	**103,600**	**88,980**	**75,760**	**63,590**	**52,300**	**41,740**
BCM0302LAACD	**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
BCM0062LAACD	3DA3F28KE	50,220	43,600	37,660	32,300	27,550	23,340	19,660	16,430	13,650
BCM0077LAACD	3DB3F33KE	60,100	52,500	45,710	39,600	34,130	29,140	24,620	20,390	16,340
BCM0092LAACD	3DF3F40KE	73,420	63,850	55,270	47,520	40,520	34,290	28,610	23,470	18,690
BCM0102LAACD	3DS3F46KE	80,060	69,640	60,280	51,830	44,200	-	31,190	25,570	20,360
BCM0122LAACD	4DBNF54KE	91,110	80,270	69,990	60,320	51,370	43,090	35,660	29,050	23,260
BCM0152LAACD	4DHNF63KE	103,280	91,790	80,890	70,690	61,150	52,440	44,600	-	31,740
BCM0222LAACD	4DJNF76KE	128,360	112,220	98,000	85,010	73,340	62,480	52,190	42,180	32,180
BCM0272LAACD	6DHNF93KE	147,610	129,820	113,420	98,070	83,780	70,900	58,960	47,840	-
BCM0302LAACD	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 28 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
BCM0062L^ACD	3DA3F28KE	45,980	-	34,080	29,000	24,480	20,470	16,950	13,870	11,220
BCM0077L^ACD	3DB3F33KE	55,510	48,180	41,610	-	30,370	25,550	21,150	17,010	13,080
BCM0092L^ACD	3DF3F40KE	67,160	58,110	49,960	42,550	-	29,840	24,410	19,380	14,670
BCM0102L^ACD	3DS3F46KE	73,170	63,320	54,440	46,360	39,090	32,540	26,560	21,070	15,930
BCM0122L^ACD	4DBNF54KE	82,610	72,410	62,760	53,660	45,120	37,330	30,220	23,840	18,180
BCM0152L^ACD	4DHNF63KE	94,150	83,480	73,400	63,810	54,880	46,680	39,260	32,750	27,120
BCM0222L^ACD	4DJNF76KE	117,240	102,200	88,490	76,220	64,960	54,510	44,540	-	25,140
BCM0272L^ACD	6DHNF93KE	132,820	116,200	100,770	86,140	72,830	60,410	48,790	37,940	-
BCM0302L^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 28 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
BCM0062LΛACD	3DA3F28KE	55,800	48,670	42,260	36,510	31,320	26,640	22,370	18,400	14,670
BCM0077LΛACD	3DB3F33KE	66,650	58,610	51,410	44,860	38,900	33,450	28,360	23,500	18,750
BCM0092LΛACD	3DF3F40KE	81,670	71,310	62,020	53,620	46,010	39,120	32,840	27,000	21,530
BCM0102LΛACD	3DS3F46KE	88,990	77,750	67,630	58,490	50,230	42,690	35,830	29,460	23,480
BCM0122LΛACD	4DBNF54KE	101,710	89,990	78,960	68,480	58,670	49,580	41,200	33,590	26,760
BCM0152LΛACD	4DHNF63KE	114,730	102,360	90,610	79,500	69,020	59,240	50,250	41,970	34,470
BCM0222LΛACD	4DJNF76KE	143,210	126,110	110,360	95,810	82,820	71,220	61,210	52,770	45,990
BCM0272LΛACD	6DHNF93KE	163,030	144,440	127,300	110,890	95,900	81,720	68,550	55,820	43,370
BCM0302LΛACD	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
BCM0062LΛACD	**3DA3F28KE**	**53,560**	**46,640**	**40,410**	**34,820**	**29,760**	**25,190**	**21,010**	**17,110**	**13,450**
BCM0077LΛACD	**3DB3F33KE**	**64,090**	**56,240**	**49,190**	**42,780**	**36,950**	**31,600**	**26,610**	**21,860**	**17,200**
BCM0092LΛACD	**3DF3F40KE**	**78,340**	**68,300**	**59,270**	**51,100**	**43,680**	**36,940**	**30,810**	**25,110**	**19,730**
BCM0102LΛACD	**3DS3F46KE**	**85,320**	**74,420**	**64,610**	**55,720**	**47,670**	**40,310**	**33,600**	**27,350**	**21,490**
BCM0122LΛACD	**4DBNF54KE**	**97,340**	**86,080**	**75,380**	**65,210**	**55,710**	**46,830**	**38,700**	**31,270**	**24,620**
BCM0152LΛACD	**4DHNF63KE**	**109,890**	**97,930**	**86,620**	**75,920**	**65,790**	**56,330**	**47,600**	**39,570**	**32,260**
BCM0222LΛACD	**4DJNF76KE**	**136,810**	**120,420**	**105,220**	**91,120**	**78,620**	**67,550**	**58,080**	**50,200**	**43,990**
BCM0272LΛACD	**6DHNF93KE**	**155,740**	**137,790**	**121,160**	**105,330**	**90,650**	**76,990**	**64,030**	**51,550**	**39,320**
BCM0302LΛACD	**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
BCM0062LΛACD	3DA3F28KE	51,300	44,580	38,540	33,100	28,170	23,710	19,620	15,800	12,210
BCM0077LΛACD	3DB3F33KE	61,550	53,860	46,960	40,690	34,980	29,730	24,860	20,180	15,610
BCM0092LΛACD	3DF3F40KE	74,960	65,230	56,470	48,530	41,310	34,740	28,740	23,160	17,870
BCM0102LΛACD	3DS3F46KE	81,620	71,060	61,530	52,890	45,030	37,880	31,330	25,200	19,460
BCM0122LΛACD	4DBNF54KE	92,840	82,000	71,650	61,820	52,600	43,970	36,050	28,810	22,320
BCM0152LΛACD	4DHNF63KE	105,000	93,470	82,570	72,280	62,490	53,350	44,890	37,060	29,970
BCM0222LΛACD	4DJNF76KE	130,660	114,610	99,810	86,320	74,370	63,810	54,860	47,520	41,870
BCM0272LΛACD	6DHNF93KE	148,220	130,860	114,830	99,390	85,170	71,890	59,230	46,920	34,950
BCM0302LΛACD	6DJNF11ME	173,830	153,670	135,150	117,550	101,000	85,000	70,110	55,560	41,150

Notes:
Λ 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 28 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
BCM0062L^ACD	3DA3F28KE	46,690	40,370	34,710	29,570	24,920	20,660	16,770	13,100	-
BCM0077L^ACD	3DB3F33KE	56,470	49,120	42,500	36,500	31,010	25,950	21,260	16,760	12,350
BCM0092L^ACD	3DF3F40KE	68,110	59,000	50,770	43,260	36,450	30,220	24,510	19,160	14,050
BCM0102L^ACD	3DS3F46KE	74,090	64,220	55,270	47,140	39,700	32,910	26,660	20,840	15,270
BCM0122L^ACD	4DBNF54KE	83,630	73,500	63,860	54,680	45,980	37,900	30,420	23,580	17,340
BCM0152L^ACD	4DHNF63KE	94,960	84,460	74,490	64,870	55,770	47,230	39,310	31,950	25,210
BCM0222L^ACD	4DJNF76KE	117,750	102,660	88,950	76,640	65,600	56,070	48,140	41,840	37,210
BCM0272L^ACD	6DHNF93KE	132,580	116,490	101,440	86,980	73,680	60,970	48,890	37,030	25,500
BCM0302L^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 28 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
BCM0062L^ACD	3DA3F28KE	47,570	41,460	35,870	30,790	26,180	22,040	18,320	14,990	-
BCM0077L^ACD	3DB3F33KE	56,850	49,950	43,630	37,850	32,550	27,720	23,330	19,300	15,600
BCM0092L^ACD	3DF3F40KE	68,280	60,200	52,600	45,480	38,870	32,710	27,080	21,860	17,130
BCM0102L^ACD	3DS3F46KE	74,050	65,010	56,660	-	41,780	35,270	29,320	23,910	18,980
BCM0122L^ACD	4DBNF54KE	87,960	76,680	66,370	56,930	-	40,640	33,690	27,460	21,840
BCM0152L^ACD	4DHNF63KE	99,750	87,480	76,390	66,230	56,980	-	41,110	34,320	28,090
BCM0222L^ACD	4DJNF76KE	115,920	101,080	88,050	76,610	66,490	57,450	-	41,350	33,710
BCM0272L^ACD	6DHNF93KE	143,140	126,640	110,560	95,320	80,880	67,680	55,660	44,980	35,980
BCM0302L^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
BCM0062L^ACD	**3DA3F28KE**	**45,880**	**39,930**	**34,470**	**29,510**	**25,000**	**20,920**	**17,270**	**14,000**	**-**
BCM0077L^ACD	**3DB3F33KE**	**54,840**	**48,070**	**41,840**	**36,170**	**30,960**	**26,240**	**21,920**	**17,990**	**14,360**
BCM0092L^ACD	**3DF3F40KE**	**66,110**	**58,010**	**50,480**	**43,440**	**36,940**	**30,920**	**25,460**	**20,480**	**15,990**
BCM0102L^ACD	**3DS3F46KE**	**71,610**	**62,710**	**54,470**	**46,900**	**39,900**	**33,520**	**27,710**	**22,440**	**17,670**
BCM0122L^ACD	**4DBNF54KE**	**84,670**	**73,610**	**63,530**	**54,270**	**45,900**	**38,370**	**31,550**	**25,440**	**19,900**
BCM0152L^ACD	**4DHNF63KE**	**95,950**	**84,000**	**73,210**	**63,310**	**54,280**	**46,150**	**38,840**	**32,180**	**26,090**
BCM0222L^ACD	**4DJNF76KE**	**111,880**	**97,510**	**84,890**	**73,810**	**63,960**	**55,150**	**47,070**	**39,350**	**31,820**
BCM0272L^ACD	**6DHNF93KE**	**137,800**	**121,660**	**105,940**	**90,930**	**76,840**	**63,730**	**51,730**	**41,230**	**32,200**
BCM0302L^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
BCM0062L^ACD	3DA3F28KE	44,160	38,350	33,020	28,170	23,740	19,750	16,160	-	-
BCM0077L^ACD	3DB3F33KE	52,800	-	40,050	34,460	29,330	24,690	20,460	16,570	12,980
BCM0092L^ACD	3DF3F40KE	63,860	55,780	48,290	41,330	34,940	29,060	23,790	19,020	14,760
BCM0102L^ACD	3DS3F46KE	69,050	60,300	52,190	44,730	37,920	31,660	26,040	20,900	16,310
BCM0122L^ACD	4DBNF54KE	81,180	70,410	60,520	51,510	43,320	35,970	29,280	23,270	17,860
BCM0152L^ACD	4DHNF63KE	92,050	80,490	69,930	60,290	51,490	43,550	36,430	29,900	24,000
BCM0222L^ACD	4DJNF76KE	107,600	93,750	81,550	70,830	61,260	52,630	44,730	37,210	29,730
BCM0272L^ACD	6DHNF93KE	132,380	116,580	101,280	86,420	72,570	59,510	47,720	37,170	28,150
BCM0302L^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 28 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
BCM0062L^ACD	3DA3F28KE	40,510	34,950	29,900	25,220	20,980	17,130	13,640	-	-
BCM0077L^ACD	3DB3F33KE	48,720	42,250	36,350	30,900	25,940	21,390	17,280	13,480	-
BCM0092L^ACD	3DF3F40KE	59,060	51,030	-	36,910	30,710	25,160	20,200	15,820	12,050
BCM0102L^ACD	3DS3F46KE	63,410	54,940	47,190	40,060	33,530	27,600	22,270	17,460	13,170
BCM0122L^ACD	4DBNF54KE	73,780	63,560	54,140	45,620	37,810	30,690	24,360	18,570	13,310
BCM0152L^ACD	4DHNF63KE	83,930	73,060	63,070	53,870	45,570	38,080	31,290	25,030	19,380
BCM0222L^ACD	4DJNF76KE	98,190	85,310	74,080	64,000	54,930	46,770	39,260	32,000	24,730
BCM0272L^ACD	6DHNF93KE	121,190	106,250	91,460	77,290	63,660	50,930	39,440	28,920	19,910
BCM0302L^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 27 and 28 to confirm DOE compliance per model

Model	Compressor	Refrigerant Line Connections (OD)		Rec. Capacity @90% full (lbs)	Condenser Fan Data		Dimensions (In.)			Net Wt.
		Liquid	Suction		No. Fans	Dia.	Length	Width	Height	(lbs.)
BCM0062LΛACD	3DA3F28KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0077LΛACD	3DB3F33KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0092LΛACD	3DF3F40KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0102LΛACD	3DS3F46KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0122LΛACD	4DBNF54KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0152LΛACD	4DHNF63KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0222LΛACD	4DJNF76KE	7/8	2-1/8	81	2	30"	170.7	49.6	54.6	2,120
BCM0272LΛACD	6DHNF93KE	1-1/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,180
BCM0302LΛACD	6DJNF11ME	1-1/8	2-1/8	123	2	30"	170.7	49.6	54.6	2,200
BCM0077MΛACD	2DL3R78KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0078MΛACD	2DA3R89KE	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0082MΛACD	3DA3R10ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0102MΛACD	3DB3R12ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0122MΛACD	3DF3R15ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0152MΛACD	3DS3R17ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,780
BCM0202MΛACD	4DBNR20ME	7/8	2-1/8	123	2	30"	170.7	49.6	54.6	1,860
BCM0252MΛACD	4DHNR22ME	1-1/8	2-1/8	123	3	30"	225.7	49.6	54.6	1,950
BCM0302MΛACD	4DJNR28ME	1-1/8	2-1/8	188	3	30"	225.7	49.6	54.6	1,950
BCM0352MΛACD	6DHNR35ME	1-1/8	2-1/8	188	3	30"	225.7	49.6	54.6	2,800
BCM0402MΛACD	6DJNR40ME	1-1/8	2-1/8	188	4	30"	280.7	49.6	54.6	3,000

Notes:
Λ C = 208-230/3/60, D = 460/3/60, E = 575/3/60

ELECTRICAL DATA

Medium Temperature Models - Mohave 208-230V

Please consult AWEF table on page 27 to confirm DOE compliance per model

Model	Compressor	Compressor		Condenser		Air Defrost		Remote Loads – Electric Defrost "1L"			
								Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
BCM0077M^ACD	2DL3R78KE	28.3	169.0	2	7	42.4	70	7.8	7.8	50.2	70.0
BCM0078M^ACD	2DA3R89KE	28.7	169.0	2	7	42.9	70	7.8	7.8	50.7	70.0
BCM0082M^ACD	3DA3R10ME	36.8	215.0	2	7	53.0	80	10.4	10.4	63.4	100.0
BCM0102M^ACD	3DB3R12ME	39.1	215.0	2	7	55.9	90	13.8	13.8	69.7	100.0
BCM0122M^ACD	3DF3R15ME	43.2	275.0	2	7	61.0	100	13.8	13.8	74.8	110.0
BCM0152M^ACD	3DS3R17ME	53.5	275.0	2	7	73.9	125	19.8	19.8	93.7	125.0
BCM0202M^ACD	4DBNR20ME	64.7	374.0	2	14	94.9	150	21	21	115.9	175.0
BCM0252M^ACD	4DHNR22ME	66.8	428.0	3	10.5	94.0	150	27.6	27.6	121.6	175.0
BCM0302M^ACD	4DJNR28ME	94.6	470.0	3	10.5	128.8	200	39.6	39.6	168.4	250.0
BCM0352M^ACD	6DHNR35ME	112.3	565.0	3	19.8	160.2	250	42	42	202.2	300.0
BCM0402M^ACD	6DJNR40ME	128.2	594.0	4	26.4	186.7	300	56	56	242.7	350.0

^ C = 208-230/3/60

ELECTRICAL DATA

Medium Temperature Models - Mohave 460V

Please consult AWEF table on page 27 to confirm DOE compliance per model

Model	Compressor	Compressor		Condenser		Air Defrost		Remote Loads – Electric Defrost "1L"			
								Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
BCM0077M^ACD	2DL3R78KE	12.4	85.0	2	3.4	20.0	30	3	3	21.9	30.0
BCM0078M^ACD	2DA3R89KE	12.6	85.0	2	3.4	20.0	30	3	3	22.2	30.0
BCM0082M^ACD	3DA3R10ME	17.9	106.0	2	3.4	25.8	40	4.7	4.7	30.5	45.0
BCM0102M^ACD	3DB3R12ME	17.9	106.0	2	3.4	25.8	40	6.9	6.9	32.7	50.0
BCM0122M^ACD	3DF3R15ME	21.2	138.0	2	3.4	29.8	50	6.9	6.9	36.7	50.0
BCM0152M^ACD	3DS3R17ME	26.0	138.0	2	3.4	35.9	60	9.9	9.9	45.8	70.0
BCM0202M^ACD	4DBNR20ME	32.4	187.0	2	7	47.5	70	10.5	10.5	58.0	90.0
BCM0252M^ACD	4DHNR22ME	33.4	214.0	3	5.1	46.8	80	13.8	13.8	60.6	90.0
BCM0302M^ACD	4DJNR28ME	47.3	235.0	3	5.1	64.2	110	19.8	19.8	84.0	125.0
BCM0352M^ACD	6DHNR35ME	56.2	283.0	3	9.9	80.1	125	21	21	101.1	150.0
BCM0402M^ACD	6DJNR40ME	64.1	297.0	4	13.2	93.3	150	28	28	121.3	175.0

Notes:
^ D = 460/3/60
MCA = Minimum Circuit Ampacity
MOP = Maximum Overcurrent Protection

ELECTRICAL DATA

Low Temperature Models - Mohave 208-230V

Please consult AWEF table on page 28 to confirm DOE compliance per model

Model	Compressor	Compressor		Condenser		Air Defrost		Remote Loads: Electric Defrost "1L"			
								Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
BCM0062LΛACD	3DA3F28KE	24.0	150.0	2	7	37.0	60	12	12	49.0	70.0
BCM0077LΛACD	3DB3F33KE	27.6	161.0	2	7	41.5	60	18	18	59.5	80.0
BCM0092LΛACD	3DF3F40KE	33.2	215.0	2	7	48.5	80	24	24	72.5	100.0
BCM0102LΛACD	3DS3F46KE	37.2	215.0	2	7	53.5	90	24	24	77.5	110.0
BCM0122LΛACD	4DBNF54KE	46.0	220.0	2	7	64.5	110	24	24	88.5	125.0
BCM0152LΛACD	4DHNF63KE	47.2	278.0	2	7	66.0	110	24.6	24.6	90.6	125.0
BCM0222LΛACD	4DJNF76KE	57.7	374.0	2	7	79.1	125	24.6	24.6	103.7	150.0
BCM0272LΛACD	6DHNF93KE	72.4	450.0	2	7	97.5	150	24.6	24.6	122.1	175.0
BCM0302LΛACD	6DJNF11ME	85.8	470.0	2	7	114.2	175	24.6	24.6	138.8	200.0

Λ C = 208-230/3/60

ELECTRICAL DATA

Low Temperature Models - Mohave 460V

Please consult AWEF table on page 28 to confirm DOE compliance per model

Model	Compressor	Compressor		Condenser		Air Defrost		Remote Loads: Electric Defrost "1L"			
								Evap. Fan Amps	Defrost Htrs.Amps	Electric Defrost	
		RLA	LRA	No. Fans	FLA (Total)	MCA	MOPD			MCA	MOPD
BCM0062LΛACD	3DA3F28KE	10.8	77.0	2	3.4	20.0	25	6	6	22.9	30.0
BCM0077LΛACD	3DB3F33KE	14.1	83.0	2	3.4	21.0	35	9	9	30.0	40.0
BCM0092LΛACD	3DF3F40KE	15.0	106.0	2	3.4	22.2	35	12	12	34.2	45.0
BCM0102LΛACD	3DS3F46KE	16.7	106.0	2	3.4	24.2	40	12	12	36.2	50.0
BCM0122LΛACD	4DBNF54KE	23.0	110.0	2	3.4	32.2	50	12	12	44.2	60.0
BCM0152LΛACD	4DHNF63KE	23.6	139.0	2	3.4	32.9	50	12.3	12.3	45.2	60.0
BCM0222LΛACD	4DJNF76KE	28.8	187.0	2	3.4	39.5	60	12.3	12.3	51.8	80.0
BCM0272LΛACD	6DHNF93KE	36.2	225.0	2	3.4	48.7	80	12.3	12.3	61.0	90.0
BCM0302LΛACD	6DJNF11ME	42.9	235.0	2	3.4	57.0	90	12.3	12.3	69.3	110.0

Notes:
Λ D = 460/3/60
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
BCM0077M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0078M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0082M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0102M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0122M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0152M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0202M^ACD	-	7.60	-	-	-	7.60
BCM0252M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0302M^ACD	7.60	7.60	7.60	7.60	7.60	7.60
BCM0352M^ACD	7.60	7.60	7.60	7.60	-	7.60
BCM0402M^ACD	-	-	-	-	-	7.60

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

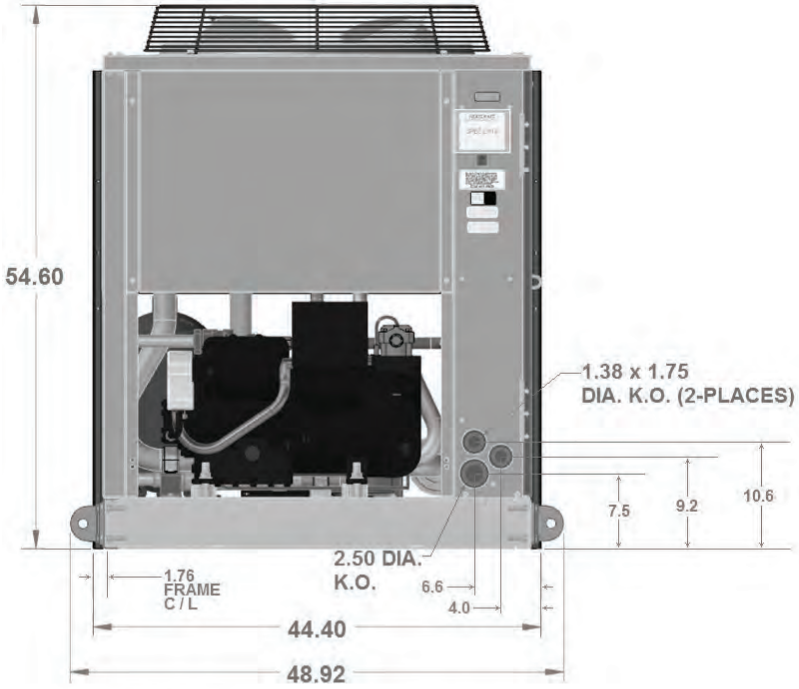
Model	Outdoor					
	R-404A	R-507A	R-448A/R-449A	R-407A	R-407C	R-407F
BCM0062LΛACD	3.15	3.15	3.15	3.15	-	3.15
BCM0077LΛACD	3.15	3.15	3.15	3.15	-	3.15
BCM0092LΛACD	3.15	3.15	3.15	3.15	3.15	3.15
BCM0102LΛACD	3.15	3.15	3.15	3.15	3.15	3.15
BCM0122LΛACD	3.15	3.15	3.15	3.15	3.15	3.15
BCM0152LΛACD	3.15	3.15	-	-	-	3.15
BCM0222LΛACD	3.15	3.15	3.15	3.15	3.15	3.15
BCM0272LΛACD	3.15	3.15	-	-	-	3.15
BCM0302LΛACD	-	-	-	-	-	-

Notes:
Λ C = 208-230/3/60, D = 460/3/60
- = model is not DOE AWEF compliant

DIMENSIONAL DRAWINGS

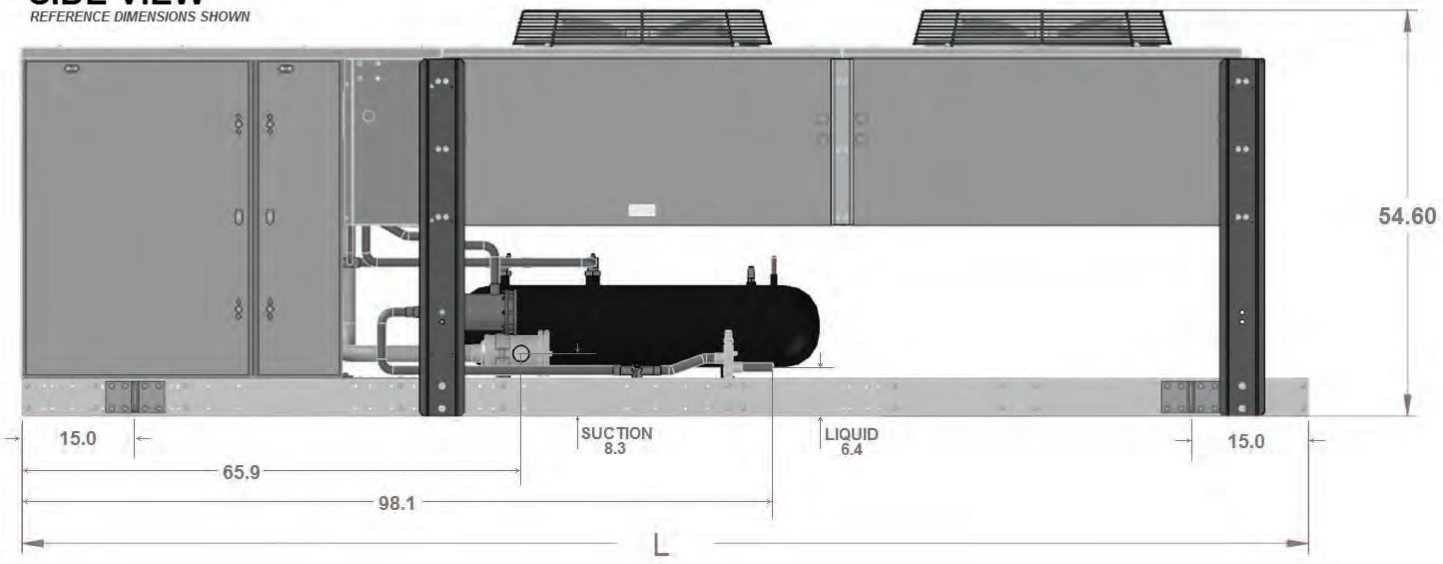
END VIEW

REFERENCE DIMENSIONS SHOWN



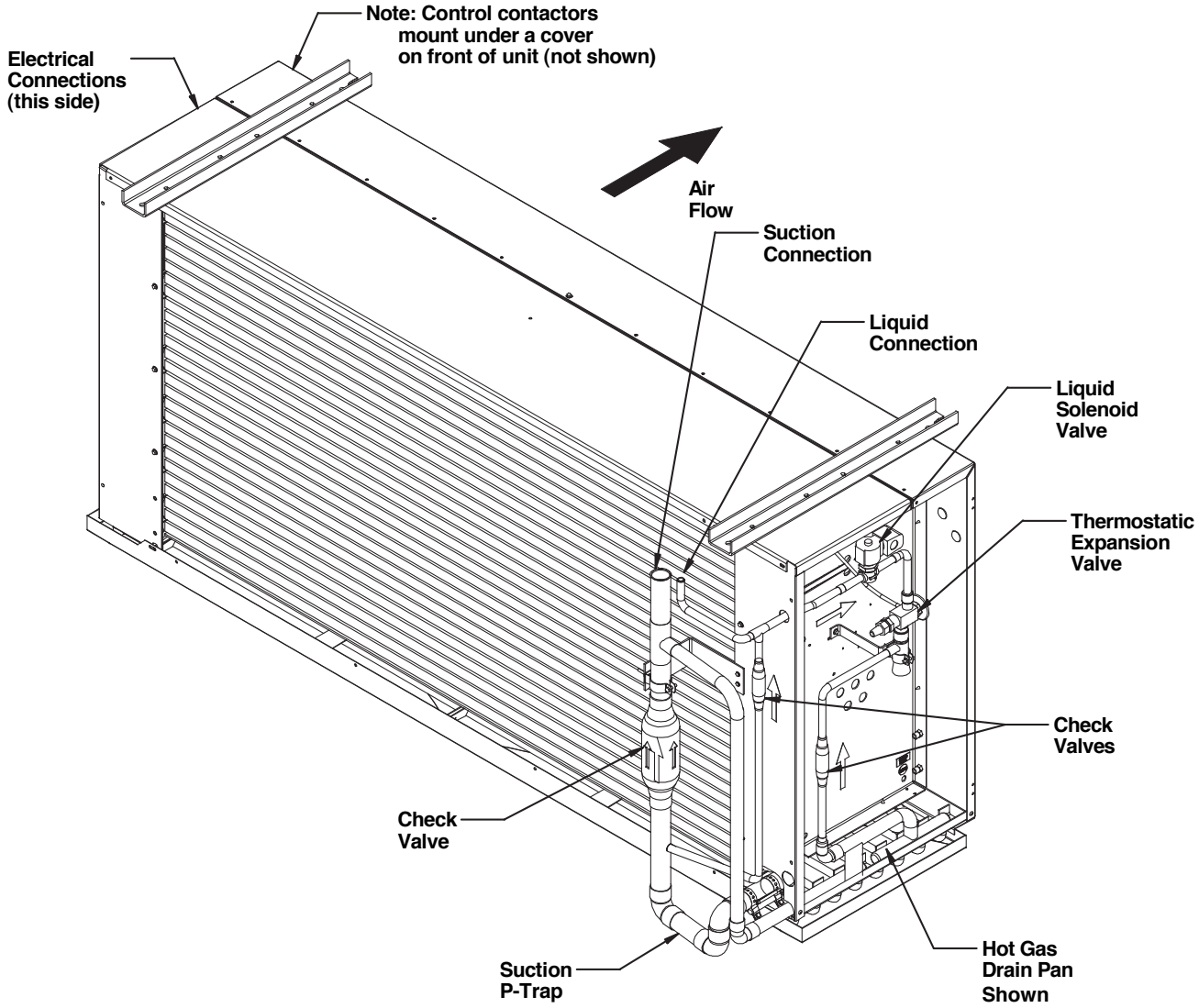
SIDE VIEW

REFERENCE DIMENSIONS SHOWN



Unit length L can be found in unit specification tables on page 24

Hot Gas Unit Cooler Typical Factory Piping



MEDIUM HOT GAS DEFROST UNIT COOLERS

For use with the Bohn 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

B	E	M	0250	A	S	6	H	M	A
BRAND **B** = Bohn		EVAPORATOR STYLE **M** = Medium Profile		VOLTAGE **A** = 115/1/60 **B** = 208–230/1/60 **C** = 208–230/3/60 **M** = 460/1/60 **D** = 460/3/60 **E** = 575/3/60 **L** = 575/1/60		FINS PER INCH (fpi) **4** **6**		MOTOR **M** = 2 Speed EC **E** = Fixed Speed EC **C** = PSC Totally Enclosed **V** = Variable Speed EC **P** = PSC	

PRODUCT IDENTIFIER	NOMINAL CAPACITY	APPLICATION	DEFROST	REVISION
E = Evaporator	**x100** = BTU/h	**S** = Standard Refrigerants	**H** = Hot Gas	

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†					
					Air Throw (Ft.)			PSC Motor			EC Motor			115V		208-230V		460V	
	BTUH	CFM	No. of Fans	Dia. (In.)	Diffused (Std.)	Extended (Opt.)	HP	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																			
BEM0250*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
BEM0300*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
BEM0370*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
BEM0475*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
BEM0595*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
BEM0735*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																			
BEM0225*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
BEM0250*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
BEM0325*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
BEM0420*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
BEM0490*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
BEM0620*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†					
					Air Throw (Ft.)			PSC Motor			EC Motor			115V		208-230V		460V	
	BTUH	CFM	No. of Fans	Dia. (In.)	Diffused (Std.)	Extended (Opt.)	HP	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																			
BEM0250*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
BEM0300*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
BEM0370*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
BEM0475*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
BEM0595*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
BEM0735*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																			
BEM0225*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
BEM0250*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
BEM0325*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
BEM0420*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
BEM0490*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
BEM0620*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†					
					Air Throw (Ft.)			PSC Motor			EC Motor			115V		208-230V		460V	
	BTUH	CFM	No. of Fans	Dia. (In.)	Diffused (Std.)	Extended (Opt.)	HP	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																			
BEM0250*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
BEM0300*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
BEM0370*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
BEM0475*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
BEM0595*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
BEM0735*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																			
BEM0225*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
BEM0250*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
BEM0325*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
BEM0420*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
BEM0490*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
BEM0620*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†					
					Air Throw (Ft.)			PSC Motor			EC Motor			115V		208-230V		460V	
	BTUH	CFM	No. of Fans	Dia. (In.)	Diffused (Std.)	Extended (Opt.)	HP	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																			
BEM0250*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
BEM0300*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
BEM0370*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
BEM0475*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
BEM0595*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
BEM0735*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																			
BEM0225*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
BEM0250*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
BEM0325*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
BEM0420*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
BEM0490*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
BEM0620*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

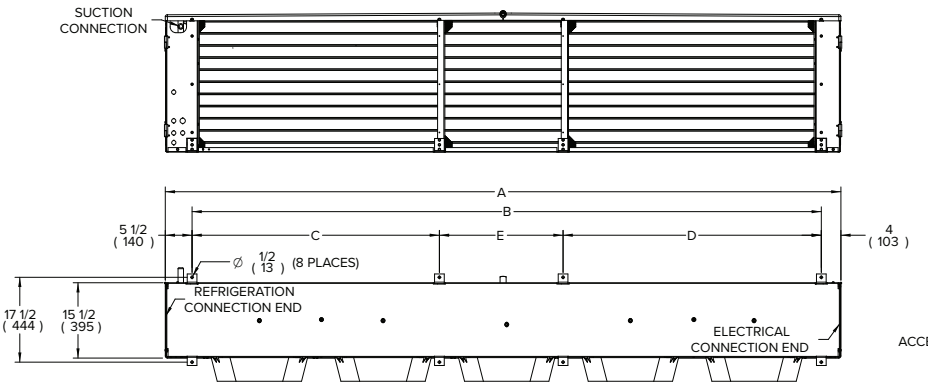
MEDIUM PROFILE UNIT COOLERS

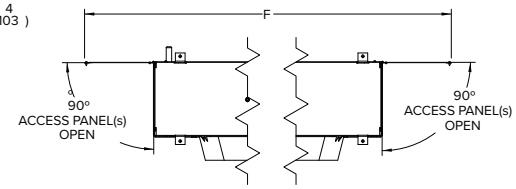
Hot Gas Defrost Physical Data

Model	No. of Fans	FPI	Connections (Inches)		Approximate Net Weight (lbs.)
			Liquid	Suction	
6 FPI MODELS					
BEM0250*S6H^A	2	6	1/2	1-3/8 ODF	213
BEM0300*S6H^A	2	6	1/2	1-3/8 ODF	231
BEM0370*S6H^A	3	6	1/2	1-3/8 ODF	255
BEM0475*S6H^A	3	6	1/2	1-3/8 ODF	288
BEM0595*S6H^A	4	6	1/2	1-3/8 ODF	324
BEM0735*S6H^A	4	6	1/2	1-3/8 ODF	365
4 FPI MODELS					
BEM0225*S4H^A	2	4	1/2	1-3/8 ODF	210
BEM0250*S4H^A	2	4	1/2	1-3/8 ODF	228
BEM0325*S4H^A	3	4	1/2	1-3/8 ODF	252
BEM0420*S4H^A	3	4	1/2	1-3/8 ODF	284
BEM0490*S4H^A	4	4	1/2	1-3/8 ODF	318
BEM0620*S4H^A	4	4	1/2	1-3/8 ODF	358

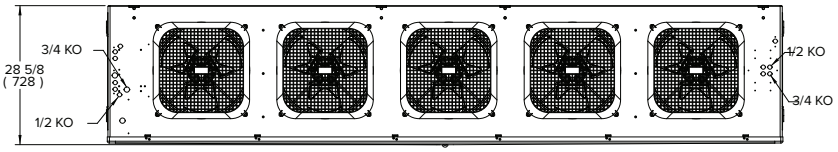
MEDIUM PROFILE UNIT COOLERS

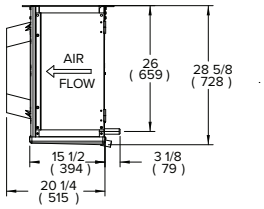
Dimensional Data





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 Bohn Mohave Hot Gas Defrost System

NOMENCLATURES (LEGACY MODELS)

Table 1 : 24” Fan Models

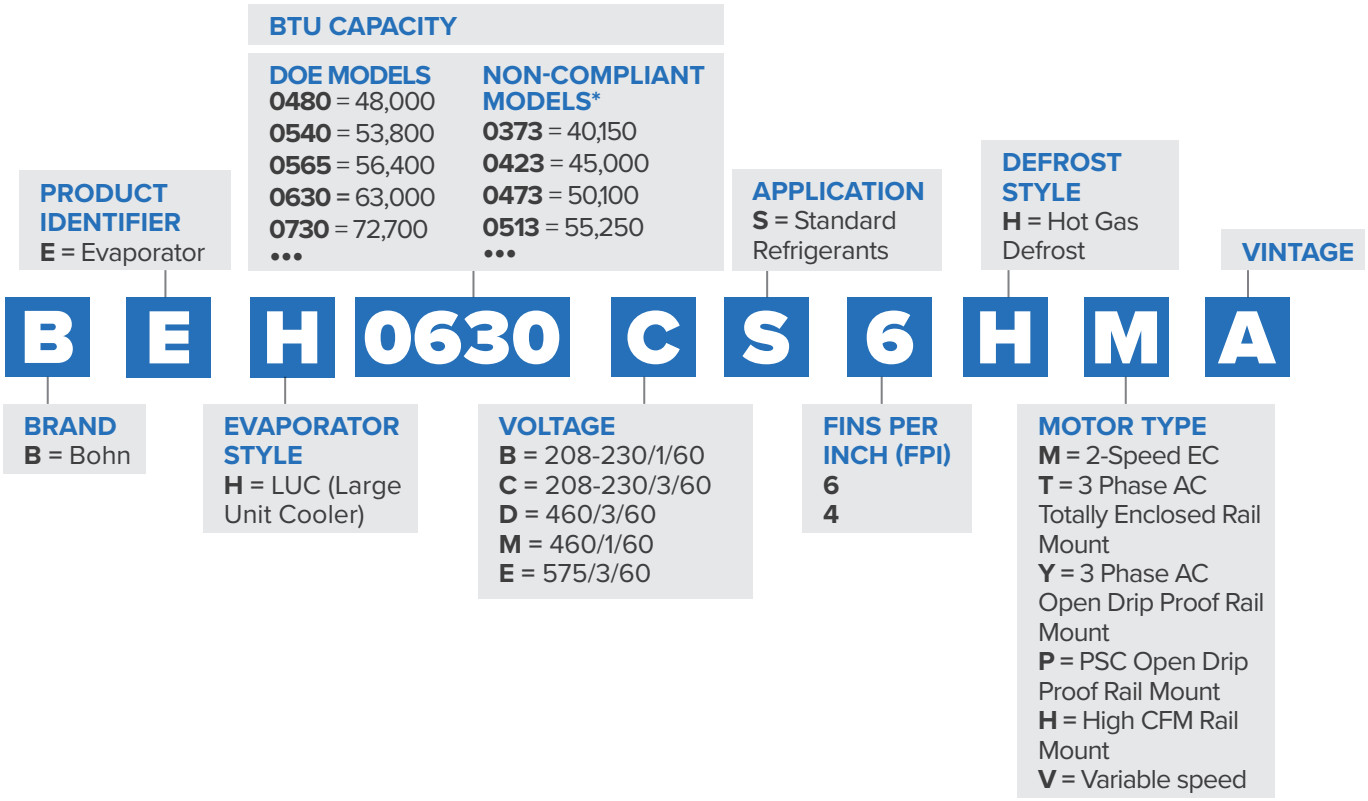
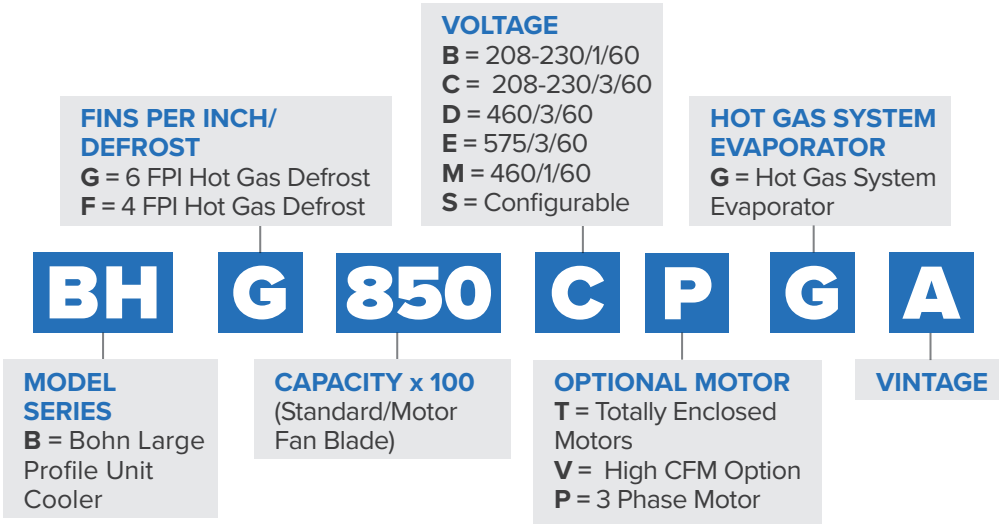


Table 2 : 30” Fan Models



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
- Balance heater load for electric defrost

OUTSTANDING FEATURES

LARGE PROFILE UNIT COOLERS

Low Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	Legacy Model	R-404A/R-507A Application Capacity		R-448A/R-449A Application Capacity		R-407A/R-407F Application Capacity		R-407C Application Capacity	
				10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	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	BTUH	Watts	BTUH	Watts
6	BEH0540*S6HMA	1	BHG450	-	-	53,800	15,800	52,900	15,500	-	-
6	BEH0630*S6HMA	1	BHG550	-	-	63,000	18,500	61,600	18,100	-	-
6	BEH0805*S6HMA	1	BHG640	-	-	80,100	23,500	79,300	23,200	-	-
6	BEH0925*S6HMA	1	BHG740	-	-	92,300	27,100	91,400	26,800	-	-
6	BEH1125*S6HMA	1	BHG810	-	-	112,200	32,900	109,300	32,000	-	-
6	BEH1210*S6HMA	1	BHG950	-	-	120,700	35,400	117,500	34,400	-	-
4	BEH0480*S4HMA	1	BHF400	-	-	48,000	14,100	47,600	14,000	-	-
4	BEH0565*S4HMA	1	BHF480	-	-	56,400	16,500	55,900	16,400	-	-
4	BEH0730*S4HMA	1	BHF560	-	-	72,700	21,300	71,400	20,900	-	-
4	BEH0845*S4HMA	1	BHF650	-	-	84,300	24,700	83,100	24,400	-	-
4	BEH1010*S4HMA	1	BHF710	-	-	100,800	29,500	98,000	28,700	-	-
4	BEH1085*S4HMA	1	BHF840	-	-	108,300	31,700	106,600	31,200	-	-

FPI	Model	Nomenclature	Legacy Model	Fan Data					Air Throw			
				No. of Fans	CFM	m^3H	Diameter		Standard		With Collar	
							in	mm	ft	m	ft	m
6	BEH0540*S6HMA	1	BHG450	2	6,850	11,638	24	610	65	20	80	24
6	BEH0630*S6HMA	1	BHG550	2	6,850	11,638	24	610	65	20	80	24
6	BEH0805*S6HMA	1	BHG640	3	10,800	18,349	24	610	65	20	80	24
6	BEH0925*S6HMA	1	BHG740	3	10,800	18,349	24	610	65	20	80	24
6	BEH1125*S6HMA	1	BHG810	4	14,400	24,466	24	610	65	20	80	24
6	BEH1210*S6HMA	1	BHG950	4	14,400	24,466	24	610	65	20	80	24
4	BEH0480*S4HMA	1	BHF400	2	7,050	11,978	24	610	65	20	80	24
4	BEH0565*S4HMA	1	BHF480	2	7,050	11,978	24	610	65	20	80	24
4	BEH0730*S4HMA	1	BHF560	3	11,200	19,029	24	610	65	20	80	24
4	BEH0845*S4HMA	1	BHF650	3	11,200	19,029	24	610	65	20	80	24
4	BEH1010*S4HMA	1	BHF710	4	15,000	25,485	24	610	65	20	80	24
4	BEH1085*S4HMA	1	BHF840	4	15,000	25,485	24	610	65	20	80	24

Notes:
* = Electrical Code Designator (see Nomenclature details)

LARGE PROFILE UNIT COOLERS

Medium Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	Legacy Model	R-404A/R-507A Application Capacity		R-448A/R-449A Application Capacity		R-407A/R-407F Application Capacity		R-407C Application Capacity	
				10°F TD 25°F SST	6°C TD -4°C SST	10°F TD 25°F SST	6°C TD -4°C SST	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	BTUH	Watts	BTUH	Watts
6	BEH0540*S6HMA	1	BHG450	-	-	62,400	18,300	61,400	18,000	-	-
6	BEH0630*S6HMA	1	BHG550	-	-	73,100	21,400	71,500	21,000	-	-
6	BEH0805*S6HMA	1	BHG640	-	-	92,900	27,200	92,000	27,000	-	-
6	BEH0925*S6HMA	1	BHG740	-	-	107,100	31,400	106,000	31,100	-	-
6	BEH1125*S6HMA	1	BHG810	-	-	130,200	38,200	126,800	37,200	-	-
6	BEH1210*S6HMA	1	BHG950	-	-	140,000	41,000	136,300	39,900	-	-
4	BEH0480*S4HMA	1	BHF400	-	-	55,700	16,300	55,200	16,200	-	-
4	BEH0565*S4HMA	1	BHF480	-	-	65,400	19,200	64,800	19,000	-	-
4	BEH0730*S4HMA	1	BHF560	-	-	84,300	24,700	82,800	24,300	-	-
4	BEH0845*S4HMA	1	BHF650	-	-	97,800	28,700	96,400	28,300	-	-
4	BEH1010*S4HMA	1	BHF710	-	-	116,900	34,300	113,700	33,300	-	-
4	BEH1085*S4HMA	1	BHF840	-	-	125,600	36,800	123,700	36,300	-	-

FPI	Model	Nomenclature	Legacy Model	Fan Data					Air Throw			
				No. of Fans	CFM	m^3H	Diameter		Standard		With Collar	
							in	mm	ft	m	ft	m
6	BEH0540*S6HMA	1	BHG450	2	6,850	11,638	24	610	65	20	80	24
6	BEH0630*S6HMA	1	BHG550	2	6,850	11,638	24	610	65	20	80	24
6	BEH0805*S6HMA	1	BHG640	3	10,800	18,349	24	610	65	20	80	24
6	BEH0925*S6HMA	1	BHG740	3	10,800	18,349	24	610	65	20	80	24
6	BEH1125*S6HMA	1	BHG810	4	14,400	24,466	24	610	65	20	80	24
6	BEH1210*S6HMA	1	BHG950	4	14,400	24,466	24	610	65	20	80	24
4	BEH0480*S4HMA	1	BHF400	2	7,050	11,978	24	610	65	20	80	24
4	BEH0565*S4HMA	1	BHF480	2	7,050	11,978	24	610	65	20	80	24
4	BEH0730*S4HMA	1	BHF560	3	11,200	19,029	24	610	65	20	80	24
4	BEH0845*S4HMA	1	BHF650	3	11,200	19,029	24	610	65	20	80	24
4	BEH1010*S4HMA	1	BHF710	4	15,000	25,485	24	610	65	20	80	24
4	BEH1085*S4HMA	1	BHF840	4	15,000	25,485	24	610	65	20	80	24

Notes:

* = Electrical Code Designator (see Nomenclature details)

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	2-Speed EC Motor								Drain Pan Heaters[2]		
				208-230/3/60				460/3/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0540*S6HMA	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	BEH0630*S6HMA	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	BEH0805*S6HMA	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	BEH0925*S6HMA	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	BEH1125*S6HMA	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
6	BEH1210*S6HMA	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	BEH0480*S4HMA	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	BEH0565*S4HMA	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	BEH0730*S4HMA	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	BEH0845*S4HMA	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	BEH1010*S4HMA	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	BEH1085*S4HMA	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7

Notes:

* = Electrical Code Designator (see Nomenclature Table 1 for details)

[2] Hot gas drain pan available

PERFORMANCE DATA

Low Temperature Hot Gas Defrost - 60 Hz

FPI	Model		Legacy Model	R-404A/R-507A Application Capacity		R-448A/R-449A Application Capacity		R-407A/R-407F Application Capacity		R-407C Application Capacity	
				10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	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	BTUH	Watts	BTUH	Watts
6	BEH0423*S6H^A	1	BHG450	45,000	13,200	49,000	14,400	49,000	14,400	49,000	14,400
6	BEH0513*S6H^A	1	BHG550	54,350	15,900	61,000	17,900	61,000	17,900	61,000	17,900
6	BEH0573*S6H^A	1	BHG640	62,700	18,400	69,000	20,200	69,000	20,200	69,000	20,200
6	BEH0713*S6H^A	1	BHG740	74,000	21,700	81,000	23,700	81,000	23,700	81,000	23,700
6	BEH0763*S6H^A	1	BHG810	81,000	23,700	89,000	26,100	89,000	26,100	89,000	26,100
6	BEH0963*S6H^A	1	BHG950	95,000	27,800	105,000	30,800	105,000	30,800	105,000	30,800
6	BHG1020	2	BHG1020	100,850	29,600	112,000	32,800	112,000	32,800	112,000	32,800
6	BHG1200	2	BHG1200	120,000	35,200	134,000	39,300	134,000	39,300	134,000	39,300
6	BHG1390	2	BHG1390	139,000	40,700	156,000	45,700	156,000	45,700	156,000	45,700
6	BHG1650	2	BHG1650	152,000	44,500	182,000	53,300	182,000	53,300	182,000	53,300
6	BHG2120	2	BHG2120	203,550	59,700	233,000	68,300	233,000	68,300	233,000	68,300
4	BEH0373*S4H^A	1	BHF400	40,000	11,700	43,000	12,600	43,000	12,600	43,000	12,600
4	BEH0473*S4H^A	1	BHF480	48,000	14,100	53,000	15,500	53,000	15,500	53,000	15,500
4	BEH0513*S4H^A	1	BHF560	56,000	16,400	60,000	17,600	60,000	17,600	60,000	17,600
4	BEH0653*S4H^A	1	BHF650	65,000	19,000	70,000	20,500	70,000	20,500	70,000	20,500
4	BEH0693*S4H^A	1	BHF710	71,000	20,800	77,000	22,600	77,000	22,600	77,000	22,600
4	BEH0883*S4H^A	1	BHF840	84,000	24,600	91,000	26,700	91,000	26,700	91,000	26,700
4	BHF890	2	BHF890	89,000	26,100	98,000	28,700	98,000	28,700	98,000	28,700
4	BHF1050	2	BHF1050	105,000	30,800	116,000	34,000	116,000	34,000	116,000	34,000
4	BHF1220	2	BHF1220	122,000	35,800	134,000	39,300	134,000	39,300	134,000	39,300
4	BHF1440	2	BHF1440	141,150	41,400	158,000	46,300	158,000	46,300	158,000	46,300
4	BHF1860	2	BHF1860	186,000	54,500	205,000	60,100	205,000	60,100	205,000	60,100

Notes:
* = Electrical Code Designator (see Nomenclature details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)

PERFORMANCE DATA

Low Temperature Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	Legacy Model	Fan Data					Air Throw			
				No. of Fans	CFM	m^3H	Diameter		Standard		With Collar	
							in	mm	ft	m	ft	m
6	BEH0423*S6H^A	1	BHG450	2	9,000	15,291	24	610	70	21	85	26
6	BEH0513*S6H^A	1	BHG550	2	9,000	15,291	24	610	70	21	85	26
6	BEH0573*S6H^A	1	BHG640	3	12,600	21,408	24	610	70	21	85	26
6	BEH0713*S6H^A	1	BHG740	3	12,600	21,408	24	610	70	21	85	26
6	BEH0763*S6H^A	1	BHG810	4	16,800	28,543	24	610	70	21	85	26
6	BEH0963*S6H^A	1	BHG950	4	16,800	28,543	24	610	70	21	85	26
6	BHG1020	2	BHG1020	3	20,700	35,170	30	763	100	30	115	35
6	BHG1200	2	BHG1200	3	20,700	35,170	30	763	100	30	115	35
6	BHG1390	2	BHG1390	3	24,300	41,286	30	763	100	30	115	35
6	BHG1650	2	BHG1650	3	26,550	45,109	30	763	120	37	140	43
6	BHG2120	2	BHG2120	4	35,400	60,145	30	763	120	37	140	43
4	BEH0373*S4H^A	1	BHF400	2	9,400	15,971	24	610	70	21	85	26
4	BEH0473*S4H^A	1	BHF480	2	9,400	15,971	24	610	70	21	85	26
4	BEH0513*S4H^A	1	BHF560	3	13,200	22,427	24	610	70	21	85	26
4	BEH0653*S4H^A	1	BHF650	3	13,200	22,427	24	610	70	21	85	26
4	BEH0693*S4H^A	1	BHF710	4	17,600	29,903	24	610	70	21	85	26
4	BEH0883*S4H^A	1	BHF840	4	17,600	29,903	24	610	70	21	85	26
4	BHF890	2	BHF890	3	21,600	36,699	30	763	100	30	115	35
4	BHF1050	2	BHF1050	3	21,600	36,699	30	763	100	30	115	35
4	BHF1220	2	BHF1220	3	25,200	42,815	30	763	100	30	115	35
4	BHF1440	2	BHF1440	3	27,600	46,893	30	763	120	37	140	43
4	BHF1860	2	BHF1860	4	36,800	62,524	30	763	120	37	140	43

Notes:
* = Electrical Code Designator (see Nomenclature details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)

PERFORMANCE DATA

Hot Gas Defrost High CFM - 60 Hz

FPI	Model	Nomenclature	Legacy Model	R-404A/R-507A		R-448A/R-449A		R-407A/R-407F		R-407C	
				Application Capacity		Application Capacity		Application Capacity		Application Capacity	
				10°F TD -20°F SST	6°C TD -29°C SST	10°F TD -20°F SST	6°C TD -29°C SST	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	BTUH	Watts	BTUH	Watts
6	BEH0423*S6HHA	1	BHG450*V	49,500	14,500	53,900	15,800	53,900	15,800	53,900	15,800
6	BEH0513*S6HHA	1	BHG550*V	59,800	17,500	67,100	19,700	67,100	19,700	67,100	19,700
6	BEH0573*S6HHA	1	BHG640*V	69,000	20,200	75,900	22,200	75,900	22,200	75,900	22,200
6	BEH0713*S6HHA	1	BHG740*V	81,400	23,900	89,100	26,100	89,100	26,100	89,100	26,100
6	BEH0763*S6HHA	1	BHG810*V	89,100	26,100	97,900	28,700	97,900	28,700	97,900	28,700
6	BEH0963*S6HHA	1	BHG950*V	104,500	30,600	115,500	33,800	115,500	33,800	115,500	33,800
6	BHG1020*V	2	BHG1020*V	110,900	32,500	123,200	36,100	123,200	36,100	123,200	36,100
6	BHG1200*V	2	BHG1200*V	132,000	38,700	147,400	43,200	147,400	43,200	147,400	43,200
6	BHG1390*V	2	BHG1390*V	152,900	44,800	171,600	50,300	171,600	50,300	171,600	50,300
6	BHG1650*V	2	BHG1650*V	167,200	49,000	200,200	58,700	200,200	58,700	200,200	58,700
6	BHG2120*V	2	BHG2120*V	223,900	65,600	256,300	75,100	256,300	75,100	256,300	75,100
4	BEH0373*S4HHA	1	BHF400*V	42,000	12,300	45,150	13,200	45,150	13,200	45,150	13,200
4	BEH0473*S4HHA	1	BHF480*V	50,400	14,800	55,650	16,300	55,650	16,300	55,650	16,300
4	BEH0513*S4HHA	1	BHF560*V	58,800	17,200	63,000	18,500	63,000	18,500	63,000	18,500
4	BEH0653*S4HHA	1	BHF650*V	68,250	20,000	73,500	21,500	73,500	21,500	73,500	21,500
4	BEH0693*S4HHA	1	BHF710*V	74,550	21,800	80,850	23,700	80,850	23,700	80,850	23,700
4	BEH0883*S4HHA	1	BHF840*V	88,200	25,800	95,550	28,000	95,550	28,000	95,550	28,000
4	BHF890*V	2	BHF890*V	93,450	27,400	102,900	30,200	102,900	30,200	102,900	30,200
4	BHF1050*V	2	BHF1050*V	110,250	32,300	121,800	35,700	121,800	35,700	121,800	35,700
4	BHF1220*V	2	BHF1220*V	128,100	37,500	140,700	41,200	140,700	41,200	140,700	41,200
4	BHF1440*V	2	BHF1440*V	148,200	43,400	165,900	48,600	165,900	48,600	165,900	48,600
4	BHF1860*V	2	BHF1860*V	195,300	57,200	215,250	63,100	215,250	63,100	215,250	63,100

Notes:
* = Electrical Code Designator (see Nomenclature details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)

PERFORMANCE DATA

Hot Gas Defrost High CFM - 60 Hz

FPI	Model		Legacy Model	Fan Data					Air Throw			
				No. of Fans	CFM	m^3H	Diameter		Standard		With Collar	
							in	mm	ft	m	ft	m
6	BEH0423*S6HHA	1	BHG450*V	2	11,300	19,199	24	610	85	26	100	30
6	BEH0513*S6HHA	1	BHG550*V	2	11,300	19,199	24	610	85	26	100	30
6	BEH0573*S6HHA	1	BHG640*V	3	15,900	27,014	24	610	85	26	100	30
6	BEH0713*S6HHA	1	BHG740*V	3	15,900	27,014	24	610	85	26	100	30
6	BEH0763*S6HHA	1	BHG810*V	4	21,200	36,019	24	610	85	26	100	30
6	BEH0963*S6HHA	1	BHG950*V	4	21,200	36,019	24	610	85	26	100	30
6	BHG1020*V	2	BHG1020*V	3	23,300	39,587	30	763	110	34	130	40
6	BHG1200*V	2	BHG1200*V	3	23,300	39,587	30	763	110	34	130	40
6	BHG1390*V	2	BHG1390*V	3	28,000	47,572	30	763	110	34	130	40
6	BHG1650*V	2	BHG1650*V	3	29,700	50,461	30	763	130	40	150	46
6	BHG2120*V	2	BHG2120*V	4	39,600	67,281	30	763	130	40	150	46
4	BEH0373*S4HHA	1	BHF400*V	2	12,200	20,728	24	610	85	26	100	30
4	BEH0473*S4HHA	1	BHF480*V	2	12,200	20,728	24	610	85	26	100	30
4	BEH0513*S4HHA	1	BHF560*V	3	17,000	28,883	24	610	85	26	100	30
4	BEH0653*S4HHA	1	BHF650*V	3	17,000	28,883	24	610	85	26	100	30
4	BEH0693*S4HHA	1	BHF710*V	4	22,600	38,398	24	610	85	26	100	30
4	BEH0883*S4HHA	1	BHF840*V	4	22,600	38,398	24	610	85	26	100	30
4	BHF890*V	2	BHF890*V	3	23,800	40,436	30	763	110	34	130	40
4	BHF1050*V	2	BHF1050*V	3	23,800	40,436	30	763	110	34	130	40
4	BHF1220*V	2	BHF1220*V	3	28,600	48,592	30	763	110	34	130	40
4	BHF1440*V	2	BHF1440*V	3	30,600	51,990	30	763	130	40	150	46
4	BHF1860*V	2	BHF1860*V	4	40,800	69,320	30	763	130	40	150	46

Notes:
* = Electrical Code Designator (see Nomenclature details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	EC Motors (2-Speed EC and Variable Speed EC)								Drain Pan Heaters[2]		
				208-230/3/60				460/3/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0423*S6H^A	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	BEH0513*S6H^A	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
6	BEH0573*S6H^A	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	BEH0713*S6H^A	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
6	BEH0763*S6H^A	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
6	BEH0963*S6H^A	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
6	BHG1020	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
6	BHG1200	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
6	BHG1390	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
6	BHG1650	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,200	18.2	9.1
6	BHG2120	2	1-1/2	14.8	4,474	15.7	25	7.6	4,474	8.1	15	6,450	23.2**	14.0
4	BEH0373*S4H^A	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	BEH0473*S4H^A	1	3/4	4.4	1,119	5.0	15	2.2	1,119	2.5	15	2,100	9.2	4.6
4	BEH0513*S4H^A	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	BEH0653*S4H^A	1	3/4	6.6	1,679	7.2	15	3.3	1,679	3.6	15	2,700	11.8	5.9
4	BEH0693*S4H^A	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	BEH0883*S4H^A	1	3/4	8.8	2,238	9.4	15	4.4	2,238	4.7	15	4,000	17.4	8.7
4	BHF890	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
4	BHF1050	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
4	BHF1220	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,000	17.4	8.7
4	BHF1440	2	1-1/2	11.1	3,356	12.0	20	5.7	3,356	6.2	15	4,200	18.2	9.1
4	BHF1860	2	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 Table 1, Table 2 for details)

^ = Motor Code Designator (see Nomenclature Table 1 for details)

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

[2] = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	3 Phase AC Open Drip Proof Rail Mount								Drain Pan Heaters[2]		
				208-230/3/60				460/3/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0423*S6H^A	1	3/4	8.0	1,119	9.0	20	4.0	1,119	4.5	15	2,100	9.2	4.6
6	BEH0513*S6H^A	1	3/4	8.0	1,119	9.0	20	4.0	1,119	4.5	15	2,100	9.2	4.6
6	BEH0573*S6H^A	1	3/4	12.0	1,679	13.0	25	6.0	1,679	6.5	15	2,700	11.8	5.9
6	BEH0713*S6H^A	1	3/4	12.0	1,679	13.0	25	6.0	1,679	6.5	15	2,700	11.8	5.9
6	BEH0763*S6H^A	1	3/4	16.0	2,238	17.0	30	8.0	2,238	8.5	15	4,000	17.4	8.7
6	BEH0963*S6H^A	1	3/4	16.0	2,238	17.0	30	8.0	2,238	8.5	15	4,000	17.4	8.7
6	BHG1020	2	1	13.8	3,356	15.0	25	6.9	3,356	7.5	15	4,000	17.4	8.7
6	BHG1200	2	1	13.8	3,356	15.0	25	6.9	3,356	7.5	15	4,000	17.4	8.7
6	BHG1390	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4,000	17.4	8.7
6	BHG1650	2	1-1/2	21.0	3,356	22.8	40	10.5	3,356	11.4	20	4,200	18.2	9.1
6	BHG2120	2	1-1/2	28.0	4,474	29.8	45	14.0	4,474	14.9	25	6,450	23.2**	14.0
4	BEH0373*S4H^A	1	3/4	8.0	1,119	9.0	20	4.0	1,119	4.5	15	2,100	9.2	4.6
4	BEH0473*S4H^A	1	3/4	8.0	1,119	9.0	20	4.0	1,119	4.5	15	2,100	9.2	4.6
4	BEH0513*S4H^A	1	3/4	12.0	1,679	13.0	25	6.0	1,679	6.5	15	2,700	11.8	5.9
4	BEH0653*S4H^A	1	3/4	12.0	1,679	13.0	25	6.0	1,679	6.5	15	2,700	11.8	5.9
4	BEH0693*S4H^A	1	3/4	16.0	2,238	17.0	30	8.0	2,238	8.5	15	4,000	17.4	8.7
4	BEH0883*S4H^A	1	3/4	16.0	2,238	17.0	30	8.0	2,238	8.5	15	4,000	17.4	8.7
4	BHF890	2	1	13.8	3,356	15.0	25	6.9	3,356	7.5	15	4,000	17.4	8.7
4	BHF1050	2	1	13.8	3,356	15.0	25	6.9	3,356	7.5	15	4,000	17.4	8.7
4	BHF1220	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4,000	17.4	8.7
4	BHF1440	2	1-1/2	21.0	3,356	22.8	40	10.5	3,356	11.4	20	4,200	18.2	9.1
4	BHF1860	2	1-1/2	28.0	4,474	29.8	45	14.0	4,474	14.9	25	6,450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature Table 1, Table 2 for details)

^ = Motor Code Designator (see Nomenclature Table 1 for details)

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

[2] = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	3 Phase AC Totally Enclosed Rail Mount								Drain Pan Heaters[2]		
				208-230/3/60				460/3/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0423*S6H^A	1	1	6.0	1,492	6.8	20	3.0	1,492	3.4	15	2100	9.2	4.6
6	BEH0513*S6H^A	1	1	6.0	1,492	6.8	20	3.0	1,492	3.4	15	2100	9.2	4.6
6	BEH0573*S6H^A	1	1	9.0	2,238	9.8	20	4.5	2,238	4.9	15	2700	11.8	5.9
6	BEH0713*S6H^A	1	1	9.0	2,238	9.8	20	4.5	2,238	4.9	15	2700	11.8	5.9
6	BEH0763*S6H^A	1	1	12.0	2,984	12.8	20	6.0	2,984	6.4	15	4000	17.4	8.7
6	BEH0963*S6H^A	1	1	12.0	2,984	12.8	20	6.0	2,984	6.4	15	4000	17.4	8.7
6	BHG1020	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
6	BHG1200	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
6	BHG1390	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
6	BHG1650	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4200	18.2	9.1
6	BHG2120	2	1-1/2	26.4	4,474	28.1	45	13.2	4,474	14.0	20	6450	23.2**	14.0
4	BEH0373*S4H^A	1	1	6.0	1,492	6.8	20	3.0	1,492	3.4	15	2100	9.2	4.6
4	BEH0473*S4H^A	1	1	6.0	1,492	6.8	20	3.0	1,492	3.4	15	2100	9.2	4.6
4	BEH0513*S4H^A	1	1	9.0	2,238	9.8	20	4.5	2,238	4.9	15	2700	11.8	5.9
4	BEH0653*S4H^A	1	1	9.0	2,238	9.8	20	4.5	2,238	4.9	15	2700	11.8	5.9
4	BEH0693*S4H^A	1	1	12.0	2,984	12.8	20	6.0	2,984	6.4	15	4000	17.4	8.7
4	BEH0883*S4H^A	1	1	12.0	2,984	12.8	20	6.0	2,984	6.4	15	4000	17.4	8.7
4	BHF890	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
4	BHF1050	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
4	BHF1220	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4000	17.4	8.7
4	BHF1440	2	1-1/2	19.8	3,356	21.5	40	9.9	3,356	10.7	20	4200	18.2	9.1
4	BHF1860	2	1-1/2	26.4	4,474	28.1	45	13.2	4,474	14.0	20	6450	23.2**	14.0

Notes:

* = Electrical Code Designator (see Nomenclature Table 1, Table 2 for details)

^ = Motor Code Designator (see Nomenclature Table 1 for details)

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

[2] = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	3 Phase AC Totally Enclosed Rail Mount				Drain Pan Heaters[2]	
				575/3/60				Watts	Total Amps
				Amps	Watts	MCA	MOPD		575/1/60
6	BEH0423*S6H^A	1	1/2	1.8	746	2.0	15	2,100	3.7
6	BEH0513*S6H^A	1	1/2	1.8	746	2.0	15	2,100	3.7
6	BEH0573*S6H^A	1	1/2	2.7	1,119	2.9	15	2,700	4.7
6	BEH0713*S6H^A	1	1/2	2.7	1,119	2.9	15	2,700	4.7
6	BEH0763*S6H^A	1	1/2	3.6	1,492	3.8	15	4,000	6.9
6	BEH0963*S6H^A	1	1/2	3.6	1,492	3.8	15	4,000	6.9
6	BHG1020	2	1	7.8	2,237	8.5	15	4,000	6.9
6	BHG1200	2	1	7.8	2,237	8.5	15	4,000	6.9
6	BHG1390	2	1-1/2	7.8	3,356	8.5	15	4,000	6.9
6	BHG1650	2	1-1/2	8.4	3,356	9.1	15	4,200	7.3
6	BHG2120	2	1-1/2	11.2	4,474	11.9	20	6,450	11.2
4	BEH0373*S4H^A	1	1/2	1.8	746	2.0	15	2,100	3.7
4	BEH0473*S4H^A	1	1/2	1.8	746	2.0	15	2,100	3.7
4	BEH0513*S4H^A	1	1/2	2.7	1,119	2.9	15	2,700	4.7
4	BEH0653*S4H^A	1	1/2	2.7	1,119	2.9	15	2,700	4.7
4	BEH0693*S4H^A	1	1/2	3.6	1,492	3.8	15	4,000	6.9
4	BEH0883*S4H^A	1	1/2	3.6	1,492	3.8	15	4,000	6.9
4	BHF890	2	1	7.8	2,237	8.5	15	4,000	6.9
4	BHF1050	2	1	7.8	2,237	8.5	15	4,000	6.9
4	BHF1220	2	1-1/2	7.8	3,356	8.5	15	4,000	6.9
4	BHF1440	2	1-1/2	8.4	3,356	9.1	15	4,200	7.3
4	BHF1860	2	1-1/2	11.2	4,474	11.9	20	6,450	11.2

Notes:

* = Electrical Code Designator (see Nomenclature Table 1, Table 2 for details)

^ = Motor Code Designator (see Nomenclature Table 1 for details)

[2] = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost - 60 Hz

FPI	Model	Nomenclature	HP	PSC Open Drip Proof Rail Mount								Drain Pan Heaters[2]		
				208-230/1/60				460/1/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0423*S6H^A	1	1/2	6.4	746	7.2	20	3.4	746	3.8	15	2,100	9.2	4.6
6	BEH0513*S6H^A	1	1/2	6.4	746	7.2	20	3.4	746	3.8	15	2,100	9.2	4.6
6	BEH0573*S6H^A	1	1/2	9.6	1,119	10.4	20	5.1	1,119	5.5	15	2,700	11.8	5.9
6	BEH0713*S6H^A	1	1/2	9.6	1,119	10.4	20	5.1	1,119	5.5	15	2,700	11.8	5.9
6	BEH0763*S6H^A	1	1/2	12.8	1,492	13.6	20	6.8	1,492	7.2	15	4,000	17.4	8.7
6	BEH0963*S6H^A	1	1/2	12.8	1,492	13.6	20	6.8	1,492	7.2	15	4,000	17.4	8.7
4	BEH0373*S4H^A	1	1/2	6.4	746	7.2	20	3.4	746	3.8	15	2,100	9.2	4.6
4	BEH0473*S4H^A	1	1/2	6.4	746	7.2	20	3.4	746	3.8	15	2,100	9.2	4.6
4	BEH0513*S4H^A	1	1/2	9.6	1,119	10.4	20	5.1	1,119	5.5	15	2,700	11.8	5.9
4	BEH0653*S4H^A	1	1/2	9.6	1,119	10.4	20	5.1	1,119	5.5	15	2,700	11.8	5.9
4	BEH0693*S4H^A	1	1/2	12.8	1,492	13.6	20	6.8	1,492	7.2	15	4,000	17.4	8.7
4	BEH0883*S4H^A	1	1/2	12.8	1,492	13.6	20	6.8	1,492	7.2	15	4,000	17.4	8.7

Notes:
* = Electrical Code Designator (see Nomenclature Table 1, Table 2 for details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)
[2] = Hot gas drain pan available

SPECIFICATIONS

Hot Gas Defrost High CFM - 60 Hz

FPI	Model	Nomenclature	HP	High CFM Rail Mount								Drain Pan Heaters[2]		
				208-230/3/60				460/3/60				Watts	Total Amps	
				Amps	Watts	MCA	MOPD	Amps	Watts	MCA	MOPD		208-230/1/60	460/1/60
6	BEH0423*S6HHA	1	2	12.0	2,984	13.5	30	6.0	2,984	6.80	15	2,100	9.2	4.6
6	BEH0513*S6HHA	1	2	12.0	2,984	13.5	30	6.0	2,984	6.80	15	2,100	9.2	4.6
6	BEH0573*S6HHA	1	2	18.0	4,476	19.5	35	9.0	4,476	9.80	15	2,700	11.8	5.9
6	BEH0713*S6HHA	1	2	18.0	4,476	19.5	35	9.0	4,476	9.80	15	2,700	11.8	5.9
6	BEH0763*S6HHA	1	2	24.0	5,968	25.5	40	12.0	5,968	12.80	20	4,000	17.4	8.7
6	BEH0963*S6HHA	1	2	24.0	5,968	25.5	40	12.0	5,968	12.80	20	4,000	17.4	8.7
6	BHG1020*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
6	BHG1200*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
6	BHG1390*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
6	BHG1650*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,200	18.2	9.1
6	BHG2120*V	2	3	32.8	8,948	34.9	55	16.4	8,948	17.40	25	6,450	23.2**	14.0
4	BEH0373*S4HHA	1	2	12.0	2,984	13.5	30	6.0	2,984	6.80	15	2,100	9.2	4.6
4	BEH0473*S4HHA	1	2	12.0	2,984	13.5	30	6.0	2,984	6.80	15	2,100	9.2	4.6
4	BEH0513*S4HHA	1	2	18.0	4,476	19.5	35	9.0	4,476	9.80	15	2,700	11.8	5.9
4	BEH0653*S4HHA	1	2	18.0	4,476	19.5	35	9.0	4,476	9.80	15	2,700	11.8	5.9
4	BEH0693*S4HHA	1	2	24.0	5,968	25.5	40	12.0	5,968	12.80	20	4,000	17.4	8.7
4	BEH0883*S4HHA	1	2	24.0	5,968	25.5	40	12.0	5,968	12.80	20	4,000	17.4	8.7
4	BHF890*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
4	BHF1050*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
4	BHF1220*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,000	17.4	8.7
4	BHF1440*V	2	3	24.6	6,711	26.7	45	12.3	6,711	13.30	25	4,200	18.2	9.1
4	BHF1860*V	2	3	32.8	8,948	34.9	55	16.4	8,948	17.40	25	6,450	23.2**	14.0

Notes:
* = Electrical Code Designator (see Nomenclature Table 1, Table 2 for details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)
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

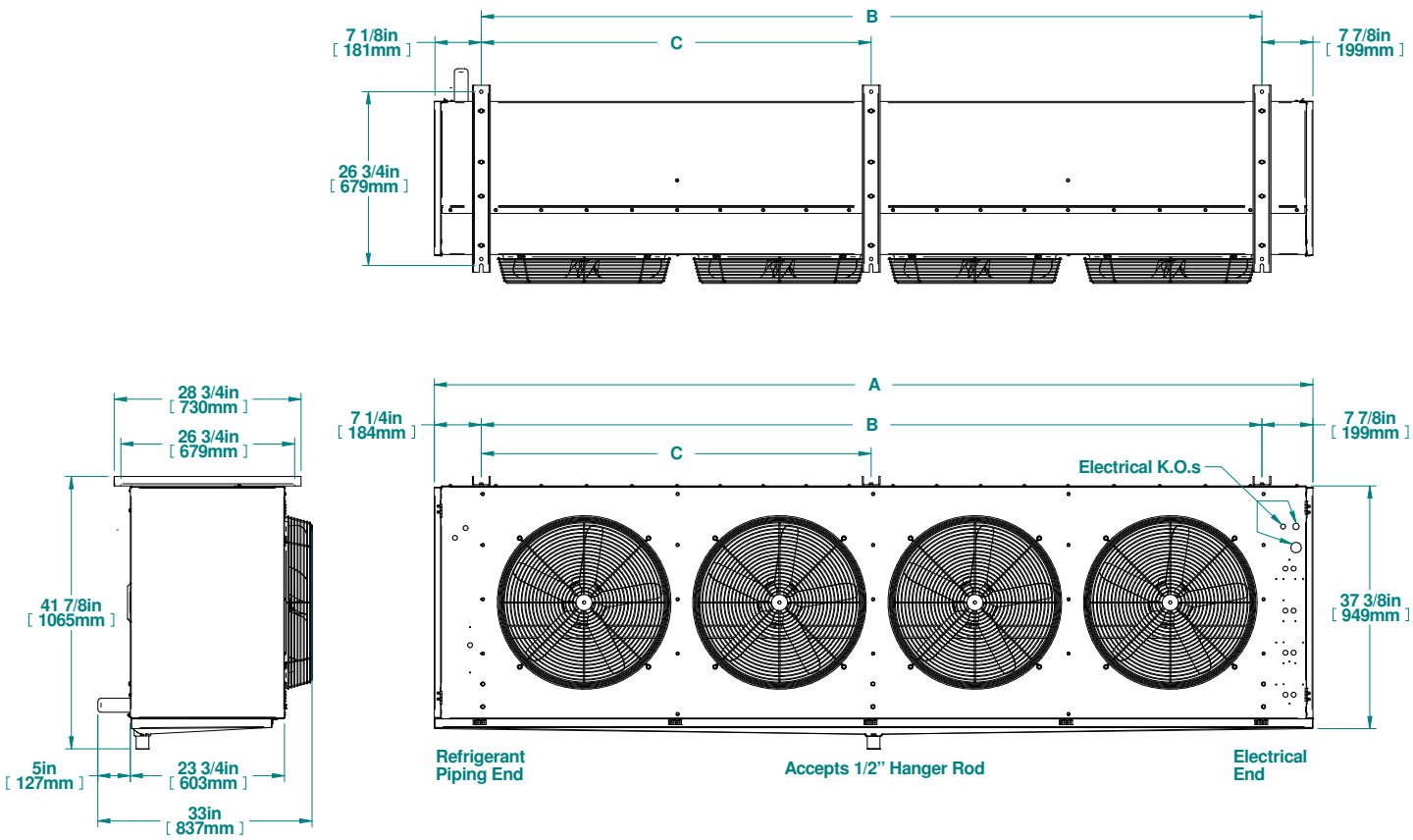
Hot Gas Defrost Physical Data

FPI	Model	Nomenclature	No. of Fans	Connections (in)				Aprox. Net Wt.	
				Liquid ODF	Suction ODF	Drain FPT	Hot Gas Drain Pain Ref. Conn. (when supplied)	lbs	kg
6	BEH0540*S6H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	433	196
6	BEH0630*S6H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	445	202
6	BEH0805*S6H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	583	264
6	BEH0925*S6H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	595	270
6	BEH1125*S6H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	732	332
6	BEH1210*S6H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	744	337
6	BEH0423*S6H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	434	197
6	BEH0513*S6H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	454	206
6	BEH0573*S6H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	566	257
6	BEH0713*S6H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	586	266
6	BEH0763*S6H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	707	321
6	BEH0963*S6H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	727	330
6	BHG1020	2	3	5/8	2-1/8	1-1/4	1-3/8	753	342
6	BHG1200	2	3	7/8	2-1/8	1-1/4	1-3/8	815	370
6	BHG1390	2	3	7/8	2-1/8	1-1/4	1-3/8	865	392
6	BHG1650	2	3	1-1/8	2-5/8	1-1/4	1-5/8**	1,175	533
6	BHG2120	2	4	1-1/8	2-5/8	1-1/4	1-5/8**	1,620	735
4	BEH0480*S4H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	437	198
4	BEH0565*S4H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	449	204
4	BEH0730*S4H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	587	266
4	BEH0845*S4H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	599	272
4	BEH1010*S4H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	736	334
4	BEH1085*S4H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	750	340
4	BEH0373*S4H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	438	199
4	BEH0473*S4H^A	1	2	5/8	1-5/8	1-1/4	1-1/8	458	208
4	BEH0513*S4H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	454	206
4	BEH0653*S4H^A	1	3	5/8	2-1/8	1-1/4	1-1/8	590	268
4	BEH0693*S4H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	711	323
4	BEH0883*S4H^A	1	4	5/8	2-1/8	1-1/4	1-1/8	731	332
4	BHF890	2	3	5/8	2-1/8	1-1/4	1-3/8	744	337
4	BHF1050	2	3	7/8	2-1/8	1-1/4	1-3/8	805	365
4	BHF1220	2	3	7/8	2-1/8	1-1/4	1-3/8	854	387
4	BHF1440	2	3	1-1/8	2-5/8	1-1/4	1-5/8**	1,160	526
4	BHF1860	2	4	1-1/8	2-5/8	1-1/4	1-5/8**	1,600	726

Notes:
* = Electrical Code Designator (see Nomenclature Table 1 for details)
^ = Motor Code Designator (see Nomenclature Table 1 for details)
** = Opposite end connections

LARGE PROFILE UNIT COOLERS

Diagram 1: 24” Fan Models

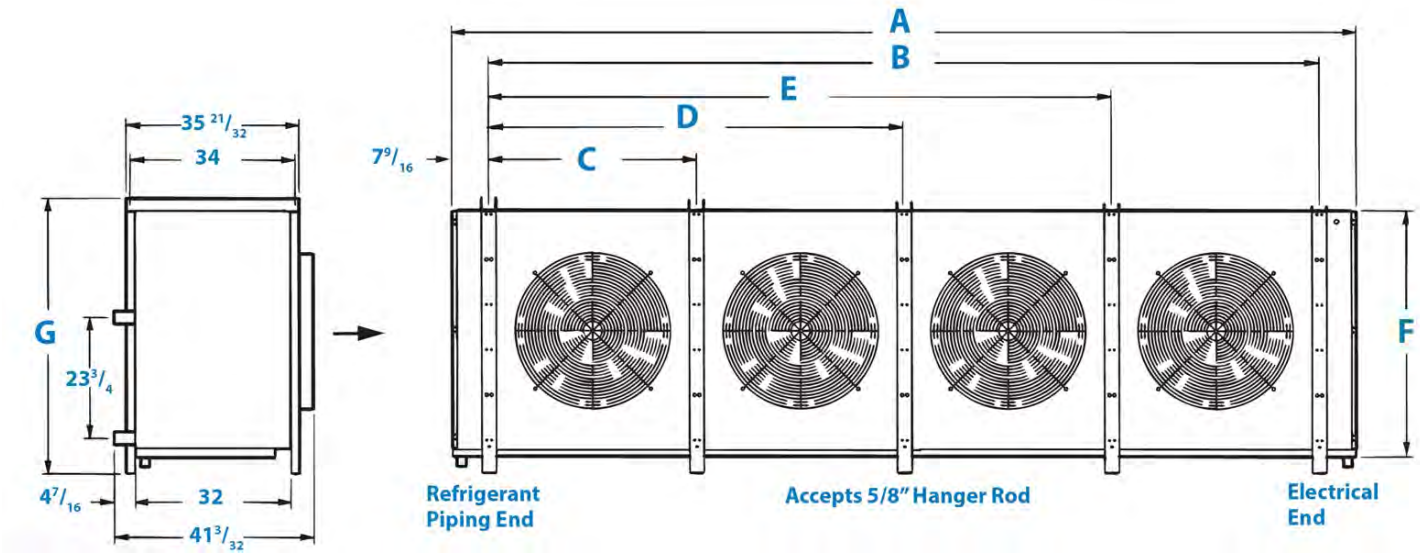


Dimensional Data For 24” Fan Models

# 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
1,020	890	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
1,200	1,050	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
1,390	1,220	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
1,650	1,440	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
-	-	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	44-1/2	1130	50-5/16	1,278
2,120	1,860	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
1020-1390	890-1220	850	1 & 1-1/2	100	120	1,750	3	115	145
1650-2120	1440-1860	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

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**.

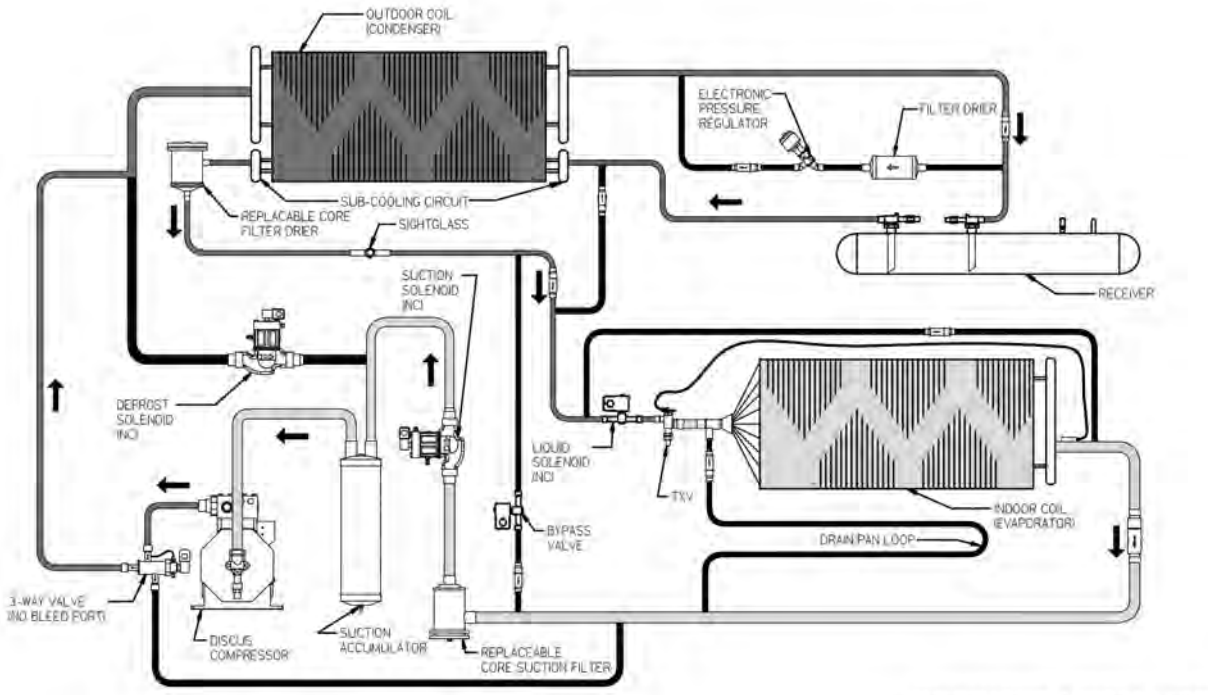
Manual Pump down: A single pole, single throw switch is connected to the Service SW input on the hot gas control board. Activating this switch (closing the contact) will cause the system to pump down and shut off. While in Service mode, the evaporator fans will turn off. Note that the system will not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

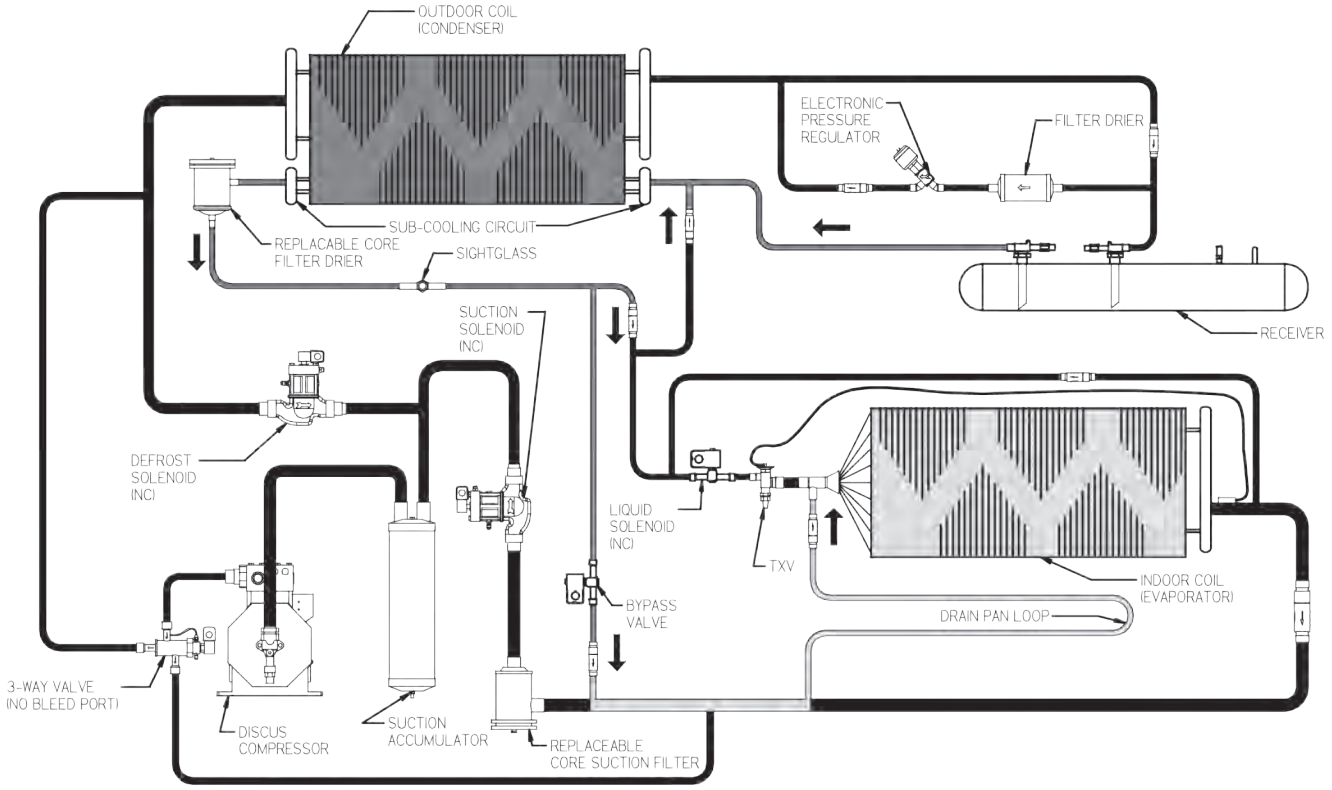
The refreeze step is identical to cooling mode except that the evaporator fans are turned off. This is to allow the evaporator coils to freeze any remaining water that might be left over from the drain down step so that when the fans turn on, the water will not be sprayed into the refrigerated space. 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

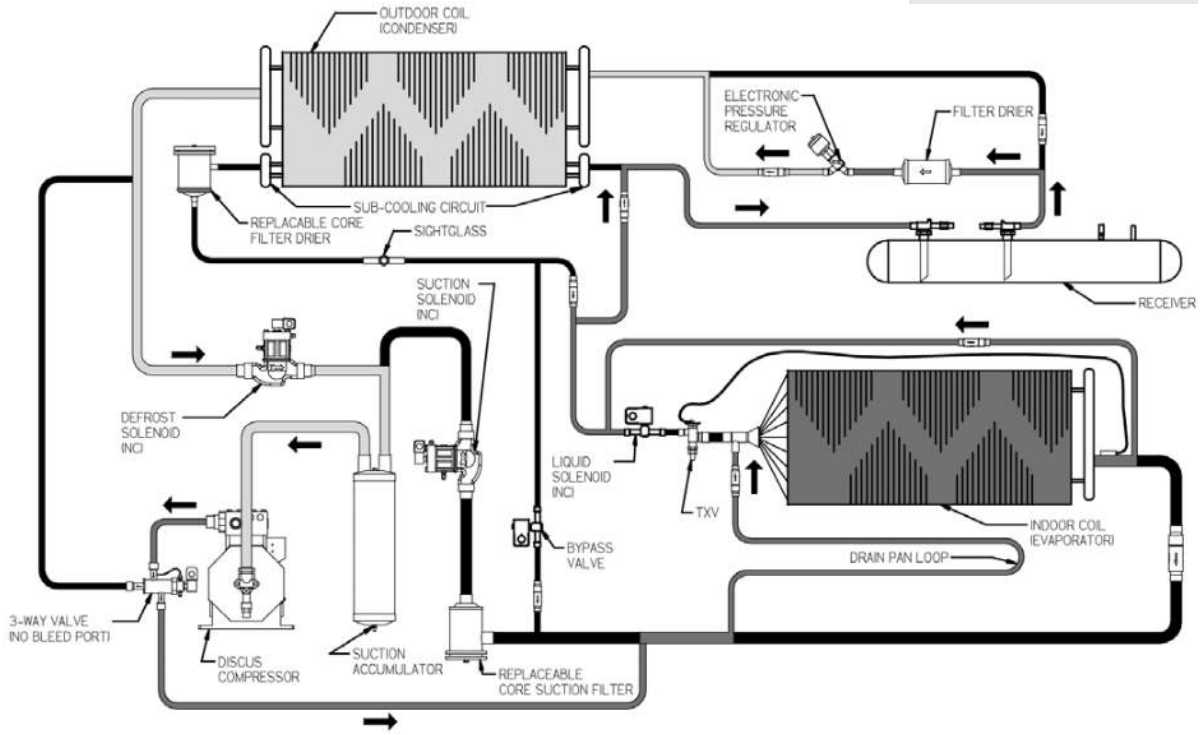
BLACK= Piping Inactive
GREY= Piping Active



Mohave Hot Gas Defrost Cycle Diagrams (cont.)

DEFROST - 2 MODE

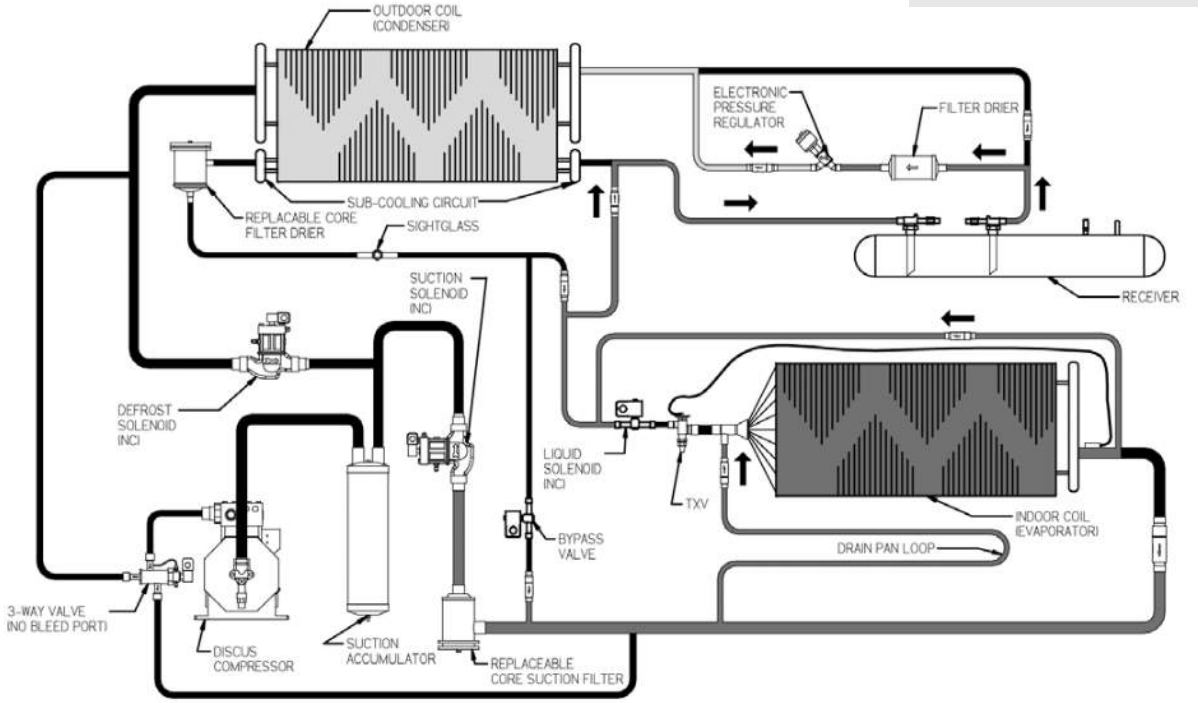
BLACK= Piping Inactive
GREY= Piping Active



Mohave Hot Gas Defrost Cycle Diagrams

DEFROST - 3 MODE

BLACK= Piping Inactive
GREY= Piping Active



NOTES

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