

FSCU-P SERIES, A.1

SMALL-SIZED CONDENSING UNIT

PREMIUM SERIES, AIR COOLED CONDENSER

SINGLE, DUAL OR TRIPLE SEMI-HERMETIC COMPRESSOR(S)

3 – 24 HP 

PREMIUM
SERIES

The FSCU-P: FriconUSA Small-Sized Condensing Unit, Premium series, air cooled condenser, is built with the best components in the market including Bitzer semi-hermetic compressors; available in capacities from 3 to 24 HP in configurations of a single compressor, or dual and triple parallel compressors. The high quality and efficiency of our products allow us to ensure our clients a highly reliable operation, low energy consumption and long equipment service life.

The most common commercial refrigeration applications are centralized refrigeration for small and medium-sized supermarkets, cold rooms, blast coolers or freezers, continuous rapid cooling tunnels, block or flake ice making machines, thermal ice storage, etc.

By using Bitzer Ecoline semi-hermetic compressors with infinite variable capacity control "CRII" between 10% and 100% or the implementation of an external VFD (Variable Frequency Drive) or "Varispeed Compressor" on the first compressor, we convert this unit into an incredible VRF (Variable Refrigerant Flow) system resulting in a greater adaptability to the thermal load demand and maximizes energy savings at partial load.

For Extra "X" Low application temperature, a Bitzer two-stage semi-hermetic compressor with sub-cooling is used. The VRF (Variable Refrigerant Flow) option for this type of unit uses an external VFD (Variable Frequency Drive) on the first compressor.

Application Temperature:

"H" High: +45°F (+7.2°C) to +10°F (-12.2°C) SST

"M" Medium: +30°F (-1.1°C) to -20°F (-29°C) SST

"L" Low: +5°F (-15°C) to -40°F (-40°C) SST

"X" Extra Low, 2-stage: -15°F (-26°C) to -60°F (-51°C) SST

10% **VRF** 100%
VARIABLE REFRIGERANT FLOW
VARIABLE REFRIGERANT FLOW "LOOP"
Optional



1-fan version



2-fan version



3-fan version



STANDARD FEATURES & BENEFITS:

- Bitzer Ecoline semi-hermetic compressor(s) with spring mounted vibration insulation, crankcase heater and internal thermal protection. For Extra "X" Low application temperature, a Bitzer two-stage semi-hermetic compressor is used.
- Step unloader(s) on each compressor (4 cylinders: 50-100%, 6 cylinders: 33-66-100%).
- Aluminum structure with galvanized steel reinforcement, high efficiency condenser with reinforced structure and aluminum micro-channel coils. Its low weight and size reduces the costs of transportation, installation and construction.
- Galvanized and powder coated weatherproof cabinet.
- EcoFriendly; Air cooled micro-channel condenser coil with internal volume reduced requires between 40% and 60% less refrigerant charge and results in a significant reduction of the refrigerant charge necessary for normal or flooded operations.
- Wide range of SST (Saturated Suction Temperature).
- Top and rear fan covers are designed to be easily interchangeable.
- Quiet, high efficiency, external rotor motor, AC type axial fan(s) for a better operation, configured in a vertical position.
- Vertical liquid receiver with inlet and outlet insulate valves, stainless steel relief valve at 450 PSI and electronic low liquid level indicator.
- Liquid sight glass and solenoid valve.
- Sealed suction filter and liquid drier for single compressor units. Replaceable core filter for units over 15 HP and all units with dual and triple compressors.
- Suction accumulator.
- Flexible joint on suction and discharge lines on each compressor.
- Helical oil separator with discharge check valve and replaceable 5 micron oil filter, additionally, for units with dual or triple compressors, built-in oil reservoir.
- Electronic oil level regulator for units with dual or triple compressors.
- Electronic oil pressure switch.
- Refrigerant: R-404a
- Factory pre-charged with nitrogen and electrical work tested.
- UL 508A listed built-in electrical control panel.
- Compressor and fan circuit breakers.
- Voltage and phase-loss monitor with protection module for each compressor.
- Control: 208-230V / 1PH / 60HZ
- Power Supply Voltage 208-230V / 3PH / 60HZ with single point power connection.
- Electronic Control System; compressor(s) and condenser fan(s) operational management: alarms, measurement of pressure and temperature variables, 132x64 LCD backlit built-in display with 6-button keypad.
- Alarm management: 3 alarms per compressor(s) (overload, pressure and oil) and 1 overload alarm for condenser fan(s).
- Fixed high pressure controls on each compressor.
- BMS (Building Management System): ModBus protocol for supervisor or HMI (Human Machine Interface).
- 2-year warranty.

BENEFITS:

VRF (Variable Refrigerant Flow): Maximum adaptability to the thermal load demand and extraordinary energy savings at partial load.

Easy access and maintenance: The top and rear fan covers are designed to be interchangeable. Nylon hinges permit a quick change to the fan position (vertical or horizontal) and easy access for maintenance to the units coils and fan(s).

The electrical panel is located on the top front with nylon hinged doors that lock with a universal key for easy and secure access.

The vertical liquid receiver, suction filters, liquid solenoid, drier and sight glass are accessed from the front of the unit with sufficient space for service.

Small footprint and installation versatility: Side access for maintenance is not necessary which permits installing the units next to or on top of each other significantly reducing costly wasted space in machine rooms.

STANDARD OPTIONS:

- Different compressor brand.
- Condenser coil with E-Coating for greater resistance to corrosion.
- Fan configuration in horizontal position.
- EC type fans with variable speed (for 575V a VFD is used).
- Cabinet with integrated mesh protection.
- Refrigerants: R-407a, R-448a, R-449a, R-507a
- Different power supply voltage.

ADDITIONAL OPTIONS:

- VRF (Variable Refrigerant Flow) package to maximize the efficiency and capacity adaptability to the demand:
 - VRF-I: CRUI Unloader. Infinite capacity control on the first compressor (4 cylinders: 10≈100%, 6 cylinders: 33≈100%).
 - VRF-II*: VFD (Variable Frequency Drive). Infinite capacity control on the lead compressor in each circuit (42~116%).
 - VRF-III: Bitzer Varispeed Compressor. Infinite capacity control on the first compressor (25~145%). Available for certain models only.
**Certain limitations apply.*
- LAHPC (Low Ambient Head Pressure Control). Required for ambient temperature operation below +40°F.
 - LAHPC-I: +110°F (+43.3°C) to 0°F (-18°C), Includes: Sporlan head pressure control valves ORI & ORD.
 - LAHPC-II: +110°F (+43.3°C) to -20°F (-28.9°C), Includes: same as LAHPC-I plus split condenser with variable speed fan on the first fan.
 - LAHPC-III: +110°F (+43.3°C) to -35°F (-37.2°C). Includes: same as LAHPC-II plus insulated liquid receiver with electric heater, control panel with ventilated heating and compressor thermal insulation jacket.
- HAOP (High Ambient Operation Package) required for operation above +110°F:
 - HAOP-I: +125°F (+51.7°C) to +40°F (4.4°C), Includes: control panel air extractor fan and filter for air intake.
- EMSP (External Mechanical Sub-Cooling Package):
 - EMSP-I: Includes: brazed plate sub-cooling heat exchanger, liquid and suction connection ball valve, liquid solenoid valve, sealed drier, sight glass and thermostatic expansion valve.
 - EMSP-II: same as EMSP-I except that in place of a thermostatic expansion valve is an electronic expansion valve drive and sensors.
- Suction accumulator with heat exchanger.
- Electronic control system:
 - BACnet Communication board.
 - Remote LCD display.
 - Local or remote touch screen display.
 - Energy Management Module.
- Extended 5-year warranty on the compressor(s).

Waterproof: Cabinet designed for outdoor use with optional integrated protective mesh offers integral protection to the unit with low additional cost.

Cost effective: The triple or dual FSCU, with 2 or 3 compressors respectively, are a parallel system with all the components necessary to operate a suction group as efficiently as a traditional parallel system "Racks" but at a lower cost.

Quiet operation: Using external rotor fans with cast aluminum curved wing impeller and optimized venturi plate offers high performance air volume, low energy consumption and noise reduction; combined with low noise Bitzer semi-hermetic compressors, permits a very quiet operation.

REFERENCE

1. Compressor
2. Microchannel condenser
3. Fan
4. Electric panel & control
5. Liquid receiver
6. Suction accumulator
7. Access doors
8. Cabinet with protective grille
9. Liquid filter
10. Suction filter
11. Universal key locks



VERSATILITY

Easy access and maintenance:
The top and rear fan covers are interchangeable



NOMENCLATURE

F: FRICONUSA S: SMALL-SIZED C: CONDENSING U: UNIT		FSCU P A.1 H 0450 S 1 1 44 1		VOLTAGE 1: 208-230V / 3PH / 60HZ 2: 460V / 3PH / 60HZ 3: 575V / 3PH / 60HZ 4: 220V / 3PH / 50HZ 5: 380V / 3PH / 50HZ 9: 380V / 3PH / 60HZ S: SPECIAL VOLTAGE	
SERIES (EFFICIENCY) P: PREMIUM		MODEL H 0450 S		REFRIGERANT 13: R-134A [†] 44: R-404A 46: R-407A 47: R-407C 48: R-448A 49: R-449A 57: R-507A SR: SPECIAL REFRIGERANT	
CONDENSER TYPE & VERSION A: AIR COOLED, 1: VERSION 1		APPLICATION TEMPERATURE H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST. M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST. L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST. X: EXTRA LOW: -15°F (-26.1°C) TO -60°F (-51.1°C) SST.* <small>*ONLY FOR DUAL OR TRIPLE COMPRESSORS WITH R-407A REFRIGERANT</small>		CONDENSER, PROTECTION OPTION & FAN TYPE & POSITION: VERTICAL HORIZONTAL ° 1 A: MCHX & AC FAN(S) 2 B: MCHX WITH E-COATING & AC FAN 3 C: MCHX & EC FAN(S) 4 D: MCHX WITH E-COATING & EC FAN(S) 5 E: MCHX WITH MESH PROTECTION & AC FAN(S) 6 F: MCHX WITH E-COATING, MESH PROTECTION & AC FAN(S) 7 G: MCHX WITH MESH PROTECTION & EC FAN(S) 8 H: MCHX WITH E-COATING, MESH PROTECTION & EC FAN(S) <small>°FOR VERTICAL AIR DISCHARGE SELECT A NUMBER (1-8). FOR HORIZONTAL DISCHARGE SELECT A LETTER (A-H). MCHX: MICRO-CHANNEL CONDENSER</small>	
SIZE / CAPACITY SEE TECHNICAL DATA TABLE FOR SELECTION		CHARACTERISTIC S: SINGLE D: DUAL T: TRIPLE		COMPRESSOR BRAND & TYPE 1: BITZER SEMI-HERMETIC 7: BITZER SEMI-HERMETIC RECIP. 2-STAGE** <small>**ONLY FOR EXTRA LOW TEMPERATURE APPLICATION</small> S: SPECIAL COMPRESSOR	



TECHNICAL DATA - APPLICATION TEMPERATURE

Performance based on Bitzer Ecoline Compressor

SINGLE SEMI-HERMETIC COMPRESSOR

R-404a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE		QTY	BITZER	QTY	AC TYPE	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
	UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		LB	(KG)	IN	(mm)
H-0040-S	3	1	2DE-3	1	3950	53.1	48.8	44.7	40.4	36.8	33.1	29.6	26.5	15.3	22.9	7.2	11.1	5.1	8.0	36.2	(16)	1/2	(13)	7/8	22	FS-FM-A-1	809	(368)
H-0045-S	4	1	2CE-4	1	5000	65.9	59.9	54.9	49.7	45.4	40.8	36.6	32.8	18.2	28.8	8.1	13.1	6.5	10.5	36.2	(16)	1/2	(13)	7/8	22	FS-FM-A-1	808	(367)
H-0050-S	5	1	4FE-5	1	5000	70.7	64.8	59.3	53.5	48.7	43.7	39.1	35.2	24.2	36.3	13.1	19.4	8.7	13.3	36.2	(16)	1/2	(13)	7/8	22	FS-FM-A-1	854	(388)
H-0070-S	6	1	4EE-6	2	8200	95.7	86.6	78.3	71.3	64.1	57.4	51.3	45.7	28.1	42.9	13.4	20.8	9.4	14.2	57.6	(26)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,191	(542)
H-0080-S	7	1	4DE-7	2	8200	110.5	101.1	92.3	83.2	75.6	67.8	60.6	54.0	31.0	46.6	15.3	23.2	11.0	16.2	57.6	(26)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,196	(544)
H-0900-S	9	1	4CE-9	2	10000	133.5	121.9	111.0	99.9	90.6	81.1	72.4	64.4	34.2	52.8	17.1	26.4	13.7	21.1	83.7	(38)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,240	(563)
H-0100-S	10	1	4VE-10	2	10000	141.0	127.1	115.5	104.8	93.7	84.5	75.1	67.3	38.5	58.1	19.2	29.0	15.4	23.3	83.7	(38)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,346	(612)
H-0120-S	12	1	4TE-12	3	12250	175.6	161.7	148.5	134.7	121.8	111.0	99.8	89.4	42.3	62.5	21.2	31.6	16.9	25.2	83.7	(38)	7/8	(22)	1 3/8	35	FS-FM-C-3	1,609	(731)
H-0150-S	15	1	4PE-15	3	15000	202.0	185.8	170.3	154.1	140.6	126.4	113.3	101.2	48.7	74.9	24.4	37.5	19.6	30.1	103	(47)	7/8	(22)	1 5/8	41	FS-FM-C-3	1,663	(756)
H-0180-S	20	1	4NE-20	3	15000	232.0	214.0	196.4	178.1	162.8	146.8	133.3	119.5	57.7	86.1	28.8	43.0	23.6	35.1	103	(47)	7/8	(22)	1 5/8	41	FS-FM-C-3	1,687	(767)

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE		QTY	BITZER	QTY	AC TYPE	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
	UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		LB	(KG)	IN	(mm)
M-0035-S	3	1	2CE-3	1	3950	48.0	38.9	35.4	28.5	25.3	19.6	17.1	14.8	13.4	20.6	6.3	9.9	5.1	8.0	20.1	(9)	1/2	(13)	7/8	22	FS-FM-A-1	824	(374)
M-0040-S	3	1	4FE-3	1	3950	51.0	41.6	37.7	30.2	26.7	20.9	18.2	15.8	18.0	28.5	8.1	13.1	6.2	10.2	36.2	(16)	1/2	(13)	7/8	22	FS-FM-A-1	880	(400)
M-0050-S	4	1	4EE-4	1	5000	65.0	53.0	47.9	38.3	33.9	26.5	23.2	20.1	20.1	31.1	9.2	14.5	7.4	11.7	36.2	(16)	5/8	(16)	1 1/8	29	FS-FM-A-1	1,122	(510)
M-0060-S	5	1	4DE-5	1	5300	76.9	63.3	56.5	45.2	40.5	31.3	27.3	24.0	20.6	31.8	10.8	16.5	9.0	13.7	36.2	(16)	5/8	(16)	1 1/8	29	FS-FM-A-1	1,125	(511)
M-0070-S	6	1	4CE-6	2	8200	97.8	79.4	70.8	56.5	49.9	38.4	33.5	29.0	25.0	36.9	14.2	20.9	11.2	16.5	57.6	(26)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,221	(555)
M-0080-S	7	1	4VE-7	2	8200	100.9	82.3	73.2	57.8	50.8	38.5	33.8	28.9	24.4	36.1	12.2	18.4	9.6	14.5	57.6	(26)	5/8	(16)	1 1/8	29	FS-FM-B-2	1,312	(597)
M-0090-S	9	1	4TE-9	2	10000	121.0	99.0	87.0	69.9	61.5	47.6	41.3	35.5	28.2	45.3	14.1	22.6	12.2	19.3	83.7	(38)	5/8	(16)	1 3/8	35	FS-FM-B-2	1,553	(706)
M-0120-S	12	1	4PE-12	2	11100	140.4	113.0	101.5	80.1	70.2	53.2	45.8	39.2	34.6	53.3	17.3	26.6	14.4	22.0	83.7	(38)	7/8	(22)	1 3/8	35	FS-FM-C-2	1,571	(714)
M-0140-S	14	1	4NE-14	3	12250	162.7	133.1	119.9	95.1	83.7	63.9	55.3	48.4	39.7	59.2	19.9	30.0	15.9	23.2	83.7	(38)	7/8	(22)	1 3/8	35	FS-FM-C-3	1,609	(731)
M-0150-S	15	1	4JE-15	3	15000	199.1	165.6	151.1	122.0	110.0	86.5	76.1	66.5	50.0	76.5	25.0	38.3	20.0	30.6	103	(47)	7/8	(22)	1 5/8	41	FS-FM-C-3	1,745	(793)

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE		QTY	BITZER	QTY	AC TYPE	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
	UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		LB	(KG)	IN	(mm)
L-0040-S	4	1	4EE-4	1	3950	41.1	36.5	32.6	25.5	22.2	19.5	14.4	10.3	20.1	28.9	9.2	13.6	7.4	10.9	20.1	(9)	1/2	(13)	1 1/8	29	FS-FM-A-1	802	(365)
L-0050-S	5	1	4DE-5	1	5000	49.7	44.1	39.5	30.8	26.9	23.3	17.2	12.3	20.6	31.8	10.8	16.5	9.0	13.7	20.1	(9)	5/8	(16)	1 1/8	29	FS-FM-A-1	866	(394)
L-0060-S	6	1	4CE-6	1	5000	57.1	51.1	45.6	35.9	31.2	27.4	20.0	14.1	25.0	37.3	14.2	20.8	11.2	16.4	36.2	(16)	5/8	(16)	1 1/8	29	FS-FM-A-1	907	(412)
L-0070-S	7	1	4VE-7	1	5300	59.9	54.1	47.4	36.3	31.8	27.2	19.7	13.1	24.4	36.5	12.2	18.3	9.6	14.4	36.2	(16)	5/8	(16)	1 1/8	29	FS-FM-B-1	1,228	(558)
L-0090-S	9	1	4TE-9	2	8200	77.1	68.1	60.7	46.9	40.7	35.0	25.4	17.0	28.2	40.9	14.1	20.7	12.2	17.7	36.2	(16)	5/8	(16)	1 3/8	35	FS-FM-B-2	1,278	(581)
L-0120-S	12	1	4PE-12	2	8200	85.1	75.9	66.4	51.6	44.4	38.0	26.5	17.9	34.6	48.9	17.3	24.7	14.4	20.5	57.6	(26)	5/8	(16)	1 3/8	35	FS-FM-B-2	1,341	(610)
L-0140-S	14	1	4NE-14	2	10000	100.9	90.2	80.4	62.1	53.7	46.2	34.0	23.2	39.7	59.6	19.9	29.9	15.9	23.9	57.6	(26)	7/8	(28)	1 3/8	35	FS-FM-B-2	1,339	(609)
L-0150-S	15	1	4JE-15	2	9550	131.8	118.2	106.6	84.7	74.4	65.7	48.9	34.9	50.0	70.3	25.0	35.3	20.0	28.2	83.7	(38)	7/8	(28)	1 5/8	41	FS-FM-C-2	1,623	(738)
L-0180-S	18	1	4HE-18	2	11100	151.5	137.5	123.1	99.3	87.5	76.7	58.2	42.1	54.1	77.6	27.1	38.9	21.7	31.1	83.7	(38)	7/8	(28)	1 5/8	41	FS-FM-C-2	1,632	(742)
L-0230-S	23	1	4GE-23	3	13500	172.3	156.8	142.2	114.1	102.0	89.8	68.8	50.5	57.7	83.9	28.8	40.2	23.1	32.2	103	(47)	7/8	(28)	2 1/8	54	FS-FM-C-3	1,781	(809)
L-0250-S	25	1	6JE-25	3	15000	188.3	170.4	153.7	123.3	108.3	95.7	71.3	51.7	71.0	102.8	35.5	51.4	28.4	41.1	103	(47)	7/8	(28)	2 1/8	54	FS-FM-C-3	1,828	(831)

X: EXTRA LOW: -15°F (-26.1°C) TO -60°F (-51.1°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA							
	SIZE		QTY	BITZER	QTY	AC TYPE	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F	-50°F	-60°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT	
	UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		LB	(KG)
X-0050-S	5	1	S4T-5	1	3950	32.9	29.6	26.7	24.0	21.5	19.2	15.0	11.5													

Performance based on Bitzer EcoLine Compressor

TECHNICAL DATA - APPLICATION TEMPERATURE

DUAL SEMI-HERMETIC COMPRESSORS

R-404a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT				
						UNIT	HP	MODEL	CFM	+7.2°C	+4.4°C	+1.7°C	-1.1°C	-3.9°C	-6.7°C	-9.4°C	-12°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)	IN
H-0040-D	4	2	2GE-2	1	4200	61.6	55.9	50.2	45.4	40.5	36.4	32.3	28.6	9.8	25.9	4.3	11.7	3.3	9.1	36.2	(16)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,092	(497)
H-0050-D	4	2	2FE-2	1	5300	77.7	70.0	63.4	57.3	51.2	45.6	40.9	36.1	9.0	26.3	4.1	12.2	3.2	9.6	36.2	(16)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,092	(497)
H-0060-D	4	2	2EE-2	2	8200	93.0	84.3	75.6	67.6	60.8	54.0	47.8	42.1	10.8	29.9	4.9	14.1	3.6	10.6	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,282	(583)
H-0080-D	6	2	2DE-3	2	8200	112.2	104.0	95.2	86.8	79.8	72.4	65.6	59.2	15.3	40.0	7.2	19.3	5.1	14.0	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,322	(601)
H-0100-D	8	2	2CE-4	2	9200	136.2	126.4	115.8	106.8	97.4	88.6	80.2	72.4	18.2	48.8	8.1	22.3	6.5	17.9	83.7	(38)	7/8	(22)	1 3/8	(35)	FS-FM-B-2	1,353	(615)
H-0120-D	10	2	4FE-5	2	10000	151.2	140.0	127.8	116.4	105.8	95.8	87.4	78.8	24.2	64.5	13.1	34.5	8.7	23.6	83.7	(38)	7/8	(22)	1 3/8	(35)	FS-FM-B-2	1,430	(650)
H-0140-D	12	2	4EE-6	3	13500	187.0	172.8	157.6	145.0	131.6	119.0	108.6	97.6	28.1	72.8	13.4	35.3	9.4	25.2	103	(47)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,689	(768)
H-0160-D	14	2	4DE-7	3	15000	216.0	204.4	186.6	171.6	155.8	142.6	128.6	115.8	31.0	83.8	15.3	41.4	11.0	30.4	103	(47)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,754	(797)

DUAL COMPRESSORS

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT				
						UNIT	HP	MODEL	CFM	-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)	IN
M-0050-D	4	2	2EE-2	1	4200	61.9	51.3	46.4	37.2	32.8	25.5	22.1	19.1	10.8	28.1	4.9	13.1	3.6	9.7	36.2	(16)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,207	(549)
M-0060-D	4	2	2DE-2	1	5300	75.1	62.2	55.7	44.7	40.1	30.9	27.2	23.5	11.7	32.3	5.8	16.1	4.2	11.9	36.2	(16)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,217	(553)
M-0070-D	4	2	2CE-3	2	8200	97.1	79.8	71.6	57.7	51.2	39.7	34.7	30.1	13.4	35.8	6.3	17.3	5.1	14.0	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,306	(594)
M-0080-D	6	2	4FE-3	2	8200	103.3	84.3	76.3	61.1	54.1	42.3	37.0	32.1	18.0	46.1	8.1	21.3	6.2	16.4	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,360	(618)
M-0100-D	8	2	4EE-4	2	10000	128.3	105.9	95.8	76.7	67.8	52.4	46.3	40.2	20.1	55.2	9.2	25.7	7.4	20.7	83.7	(38)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,407	(639)
M-0120-D	10	2	4DE-5	3	12250	157.4	128.1	115.8	92.6	81.9	63.3	55.3	48.0	20.6	53.8	10.8	28.5	9.0	23.6	83.7	(38)	7/8	(22)	1 3/8	(35)	FS-FM-C-3	1,649	(750)
M-0140-D	12	2	4CE-6	3	15000	189.2	155.2	138.4	110.3	98.5	75.8	66.0	57.2	25.0	70.3	14.2	39.0	11.2	30.8	103	(47)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,733	(788)

DUAL COMPRESSORS

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT				
						UNIT	HP	MODEL	CFM	-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)	IN
L-0040-D	4	2	2DE-2	1	4200	47.7	42.9	38.5	30.0	26.1	22.8	16.5	11.3	11.7	30.1	5.8	15.1	4.2	11.1	36.2	(16)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,207	(549)
L-0050-D	4	2	2CE-3	1	5300	60.1	53.4	48.0	37.6	32.8	28.4	21.1	14.7	13.4	36.2	6.3	17.2	5.1	13.9	36.2	(16)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,227	(558)
L-0060-D	6	2	4FE-3	1	5300	62.9	56.6	50.7	39.7	34.6	30.4	22.5	16.1	18.0	46.5	8.1	21.2	6.2	16.4	36.2	(16)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,281	(582)
L-0080-D	8	2	4EE-4	2	8200	83.2	74.8	66.1	51.7	45.1	39.1	29.3	20.7	20.1	50.8	9.2	23.8	7.4	19.1	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,368	(622)
L-0100-D	10	2	4DE-5	2	8200	95.7	85.9	76.9	60.1	52.4	46.0	34.0	24.3	20.6	52.0	10.8	27.4	9.0	22.7	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,383	(628)
L-0120-D	12	2	4CE-6	2	10000	114.2	102.3	91.3	70.9	62.5	54.0	40.1	28.3	25.0	66.3	14.2	37.0	11.2	29.2	57.6	(26)	5/8	(16)	1 5/8	(41)	FS-FM-C-3	1,609	(731)
L-0140-D	14	2	4VE-7	2	9550	118.1	105.3	93.5	71.6	62.6	54.3	38.6	26.1	24.4	62.7	12.2	31.5	9.6	24.8	57.6	(26)	5/8	(16)	1 5/8	(41)	FS-FM-C-3	1,791	(814)
L-0150-D	18	2	4TE-9	3	12250	144.5	129.2	115.0	88.7	77.9	66.9	49.1	34.0	28.2	73.1	14.1	36.8	12.2	31.5	83.7	(38)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	1,906	(866)
L-0180-D	24	2	4PE-12	3	15000	163.3	145.4	129.0	100.1	86.1	74.7	53.0	35.8	34.6	91.9	17.3	45.9	14.4	38.0	83.7	(38)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	1,942	(883)
L-0220-D	28	2	4NE-14	3	15000	188.3	168.3	149.7	117.0	102.6	88.1	64.5	45.5	39.7	103.3	19.9	51.8	15.9	41.4	103	(47)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	2,004	(911)

DUAL COMPRESSORS

X: EXTRA LOW: -15°F (-26.1°C) TO -60°F (-51.1°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F	-50°F	-60°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT				
						UNIT	HP	MODEL	CFM	-26°C	-29°C	-32°C	-35°C	-37°C	-40°C	-46°C	-51°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)	IN
X-0100-D	10	2	S4T-5	2	8200	65.4	58.8	52.8	47.4	42.0	37.4	29.1	22.2	17.9	45.9	9.4	24.3	7.2	18.7	57.6	(26)	5/8	(16)	1 5/8	(41)	FS-FM-B-1	1,628	(740)
X-0160-D	16	2	S4N-8	2	9200	92.0	82.8	74.4	66.6	59.4	52.8	41.2	31.5	25.1	64.3	13.2	33.8	10.1	26.0	83.7	(38)	5/8	(16)	1 5/8	(41)	FS-FM-B-2	1,693	(770)
X-0240-D	24	2	S4G-12	3	15000	140.0	128.0	116.2	105.0	94.6	82.4	67.0	51.6	35.9	94.8	18.8	49.3	14.4	38.0	103	(47)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	2,154	(979)

DUAL COMPRESSORS

*See Capacity Correction Factors on PG.9

Compressor RLA: Rated Load Amperage (RLA) estimated to the full load of the compressor RLA = Maximum Continuous Current (MCC) / 1.56
Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

MCA: Minimum Circuit Amperage (MCA) = RLA of the largest compressor X 1.25 + SUM RLA other compressor(s) + Total FLA Fans + Control panel load
FLA Fan: Full Load Amperage (FLA) of the fans



TECHNICAL DATA - APPLICATION TEMPERATURE

Performance based on Bitzer EcoLine Compressor

TRIPLE SEMI-HERMETIC COMPRESSORS



R-404a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

TRIPLE COMPRESSORS	MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
		SIZE		QTY	BITZER	QTY	AC TYPE	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT	
		UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)		IN	(mm)
		UNIT	HP	MODEL	CFM	+7.2°C	+4.4°C	+1.7°C	-1.1°C	-3.9°C	-6.7°C	-9.4°C	-12°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)		
H-0060-T	6	3	2GE-2	1	5800	84.6	76.7	70.2	63.4	57.7	51.8	46.4	41.4	9.8	37.9	4.3	17.0	3.3	13.1	57.6	(26)	5/8	(15)	1 3/8	(35)	FS-FM-C-1	1,483	(674)	
H-0080-T	9	3	2FE-3	2	8200	105.0	96.5	87.4	79.0	72.0	64.7	57.9	51.7	11.3	42.3	5.1	19.7	4.4	16.8	57.6	(26)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,547	(703)	
H-0100-T	9	3	2EE-3	2	9550	135.2	124.1	113.6	102.6	92.4	83.9	75.1	67.0	14.0	53.3	6.5	25.2	5.3	20.5	57.6	(26)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,700	(773)	
H-0110-T	9	3	2DE-3	2	11100	159.3	146.3	132.5	121.1	109.2	99.3	88.9	79.4	15.3	59.7	7.2	28.4	5.1	20.6	83.7	(38)	7/8	(22)	1 3/8	(35)	FS-FM-C-2	1,700	(773)	
H-0140-T	12	3	2CE-4	3	15000	197.8	179.7	164.8	149.1	136.1	122.5	109.9	98.3	18.2	73.2	8.1	33.3	6.5	26.7	83.7	(38)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,778	(808)	
H-0150-T	15	3	4FE-5	3	15000	212.0	194.5	175.9	160.5	144.4	131.1	117.2	104.5	24.2	92.7	13.1	49.6	8.7	33.9	103	(47)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,938	(881)	

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

TRIPLE COMPRESSORS	MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
		SIZE		QTY	BITZER	QTY	AC TYPE	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT	
		UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)		IN	(mm)
		UNIT	HP	MODEL	CFM	-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)		
M-0040-T	4.5	3	2HE-1	1	4250	52.8	42.4	38.9	30.6	27.0	20.6	17.8	15.2	6.5	24.9	3.1	12.1	2.4	9.4	57.6	(26)	1/2	(16)	1 1/8	(29)	FS-FM-C-1	1,483	(674)	
M-0060-T	6	3	2FE-2	1	5800	75.4	61.7	55.2	44.3	39.1	30.4	26.4	22.7	9.0	35.3	4.1	18.3	3.2	12.8	57.6	(26)	5/8	(22)	1 3/8	(35)	FS-FM-C-1	1,493	(678)	
M-0070-T	6	3	2EE-2	2	8200	99.0	81.0	72.4	58.0	51.3	39.4	34.2	29.5	10.8	40.7	4.9	19.0	3.6	14.2	57.6	(26)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,682	(765)	
M-0090-T	6	3	2DE-2	2	8200	114.0	93.4	84.6	67.9	60.1	47.0	40.9	35.3	11.7	43.6	5.8	22.0	4.2	16.1	57.6	(26)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,682	(765)	
M-0110-T	9	3	2CE-3	2	11100	142.3	116.8	106.1	85.5	75.8	58.8	51.4	44.6	13.4	53.6	6.3	25.5	5.1	20.6	83.7	(38)	7/8	(22)	1 5/8	(42)	FS-FM-C-2	1,738	(790)	
M-0120-T	9	3	4FE-3	3	12250	154.9	128.0	114.5	91.7	81.1	63.5	55.5	48.2	18.0	68.1	8.1	31.4	6.2	24.2	83.7	(38)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,860	(845)	
M-0150-T	12	3	4EE-4	3	15000	192.5	158.9	143.7	115.0	101.7	79.6	69.5	60.3	20.1	79.3	9.2	36.9	7.4	29.7	83.7	(38)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,872	(851)	

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

TRIPLE COMPRESSORS	MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
		SIZE		QTY	BITZER	QTY	AC TYPE	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT	
		UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)		IN	(mm)
		UNIT	HP	MODEL	CFM	-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)		
L-0070-T	6	3	2EE-2	1	4250	68.4	61.2	55.4	43.8	38.4	33.4	24.8	16.9	10.8	38.9	4.9	18.0	3.6	13.3	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-C-1	1,633	(742)	
L-0080-T	6	3	2DE-2	1	5800	78.3	71.1	64.5	51.2	45.5	39.6	29.6	20.6	11.7	44.0	5.8	21.9	4.2	16.1	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-C-1	1,643	(747)	
L-0090-T	9	3	2CE-3	2	8200	88.9	80.1	72.0	56.5	49.2	43.3	31.6	22.0	13.4	49.2	6.3	23.6	5.1	19.1	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-C-2	1,697	(771)	
L-0100-T	9	3	4FE-3	2	8200	95.7	84.9	76.1	59.5	52.6	45.6	33.7	23.8	18.0	64.1	8.1	29.4	6.2	22.6	57.6	(26)	5/8	(16)	1 3/8	(35)	FS-FM-C-2	1,778	(808)	
L-0140-T	12	3	4EE-4	2	11100	135.0	122.7	110.7	88.2	77.7	68.7	51.9	38.0	20.1	75.3	9.2	34.9	7.4	28.1	83.7	(38)	7/8	(22)	1 5/8	(42)	FS-FM-C-2	1,831	(832)	
L-0160-T	15	3	4DE-5	3	13500	161.4	146.4	130.8	104.1	92.7	81.3	62.1	45.3	20.6	78.8	10.8	41.2	9.0	34.1	103	(47)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,932	(878)	
L-0200-T	18	3	4CE-6	3	15000	191.1	172.8	153.9	123.3	109.5	95.7	72.3	52.3	25.0	95.3	14.2	53.2	11.1	41.7	103	(47)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	1,968	(895)	

X: EXTRA LOW: -15°F (-26.1°C) TO -60°F (-51.1°C) SST.

TRIPLE COMPRESSORS	MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
		SIZE		QTY	BITZER	QTY	AC TYPE	-15°F	-20°F	-25°F	-30°F	-35°F	-40°F	-50°F	-60°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT	
		UNIT	HP													MODEL	CFM	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB	(KG)		IN	(mm)
		UNIT	HP	MODEL	CFM	-26°C	-29°C	-32°C	-35°C	-37°C	-40°C	-46°C	-51°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)		
X-0150-T	15	3	S4T-5	2	9200	97.8	87.6	78.9	70.5	62.7	55.9	43.5	33.1	17.9	66.0	9.4	34.6	7.2	26.6	83.7	(38)	5/8	(22)	1 5/8	(42)	FS-FM-C-2	2,158	(981)	
X-0240-T	24	3	S4N-8	3	15000	137.7	124.2	111.6	99.9	89.1	79.2	61.8	47.3	25.1	95.6	13.2	49.9	10.1	38.4	103	(47)	1/2	(28)	1 5/8	(42)	FS-FM-C-3	2,293	(1,042)	

*See Capacity Correction Factors on PG.9

Compressor RLA: Rated Load Amperage (RLA) estimated to the full load of the compressor RLA = Maximum Continuous Current (MCC) / 1.56
Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

MCA: Minimum Circuit Amperage (MCA) = RLA of the largest compressor X 1.25 + SUM RLA other compressor(s) + Total FLA Fans + Control panel load
FLA Fan: Full Load Amperage (FLA) of the fans

Performance based on Bitzer EcoLine Compressor

TECHNICAL DATA - APPLICATION TEMPERATURE

SINGLE SEMI-HERMETIC COMPRESSOR

R-407a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	CFM	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APPROX. DRY WEIGHT	
							+7.2°C	+4.4°C	+1.7°C	-1.1°C	-3.9°C	-6.7°C	-9.4°C	-12°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB (KG)	IN (mm)		IN (mm)	IN (mm)
H-0040-S	3	1	2DE-3	1	3950	53.1	48.1	43.1	38.9	35.0	31.1	27.8	24.5	15.3	22.9	7.2	11.1	5.1	8.0	40.6 (18)	1/2 (13)	7/8 (22)	FS-FM-A-1	809	(368)			
H-0045-S	4	1	2CE-4	1	5000	65.2	59.1	53.5	47.9	43.1	38.4	34.4	30.3	18.2	28.8	8.1	13.1	6.5	10.5	40.6 (18)	1/2 (13)	7/8 (22)	FS-FM-A-1	808	(367)			
H-0050-S	5	1	4FE-5	1	5000	70.6	64.0	57.9	52.2	47.0	41.8	37.0	32.9	24.2	36.3	13.1	19.4	8.7	13.3	40.6 (18)	1/2 (13)	7/8 (22)	FS-FM-A-1	854	(388)			
H-0070-S	6	1	4EE-6	2	8200	93.3	84.6	75.9	68.5	61.1	54.4	48.2	42.5	28.1	42.9	13.4	20.8	9.4	14.2	64.6 (29)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,191	(542)			
H-0080-S	7	1	4DE-7	2	8200	107.2	97.2	87.8	78.5	70.6	62.7	55.5	49.4	31.0	46.6	15.3	23.2	11.0	16.2	64.6 (29)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,196	(544)			
H-0900-S	9	1	4CE-9	2	10000	130.5	118.3	107.1	95.8	86.3	76.7	68.7	60.6	34.2	52.8	17.1	26.4	13.7	21.1	93.9 (43)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,240	(563)			
H-0100-S	10	1	4VE-10	2	10000	135.8	123.0	110.1	99.2	89.1	79.0	69.7	61.9	38.5	58.1	19.2	29.0	15.4	23.3	93.9 (43)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,346	(612)			
H-0120-S	12	1	4TE-12	3	12250	166.6	151.1	135.6	123.5	109.1	97.9	86.7	76.4	42.3	62.5	21.2	31.6	16.9	25.2	93.9 (43)	7/8 (22)	1 3/8 (35)	FS-FM-C-3	1,609	(731)			
H-0150-S	15	1	4PE-15	3	15000	191.5	173.4	155.3	138.0	123.3	110.8	98.2	86.7	48.7	74.9	24.4	37.5	19.6	30.1	115.6 (53)	7/8 (22)	1 5/8 (41)	FS-FM-C-3	1,663	(756)			
H-0180-S	20	1	4NE-20	3	15000	214.0	194.7	176.8	158.7	143.3	127.7	114.5	102.1	57.7	86.1	28.8	43.0	23.6	35.1	115.6 (53)	7/8 (22)	1 5/8 (41)	FS-FM-C-3	1,687	(767)			

SINGLE COMPRESSOR

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	CFM	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APPROX. DRY WEIGHT	
							-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB (KG)	IN (mm)		IN (mm)	IN (mm)
M-0035-S	3	1	2CE-3	1	3950	46.2	37.3	33.4	26.1	22.9	17.2	14.7	12.5	13.4	20.6	6.3	9.9	5.1	8.0	22.5 (10)	1/2 (13)	7/8 (22)	FS-FM-A-1	824	(374)			
M-0040-S	3	1	4FE-3	1	3950	51.0	40.8	36.4	28.5	25.2	18.9	16.5	14.1	18.0	28.5	8.1	13.1	6.2	10.2	40.6 (18)	1/2 (13)	7/8 (22)	FS-FM-A-1	880	(400)			
M-0050-S	4	1	4EE-4	1	5000	63.1	50.3	44.9	35.4	30.9	23.4	20.0	17.0	20.1	31.1	9.2	14.5	7.4	11.7	40.6 (18)	5/8 (16)	1 1/8 (29)	FS-FM-A-1	1,122	(510)			
M-0060-S	5	1	4DE-5	1	5300	73.5	59.1	52.7	41.5	36.2	27.4	23.4	19.9	20.6	31.8	10.8	16.5	9.0	13.7	40.6 (18)	5/8 (16)	1 1/8 (29)	FS-FM-B-1	1,125	(511)			
M-0070-S	6	1	4CE-6	2	8200	94.1	75.3	67.4	52.8	46.2	34.8	29.9	25.6	25.0	36.9	14.2	20.9	11.2	16.5	64.6 (29)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,221	(555)			
M-0080-S	7	1	4VE-7	2	8200	97.3	77.4	69.0	53.5	46.5	34.3	29.1	24.4	24.4	36.1	12.2	18.4	9.6	14.5	64.6 (29)	5/8 (16)	1 1/8 (29)	FS-FM-B-2	1,312	(597)			
M-0090-S	9	1	4TE-9	2	10000	116.8	94.1	84.1	65.7	57.3	42.8	37.0	31.3	28.2	45.3	14.1	22.6	12.2	19.3	93.9 (43)	5/8 (16)	1 3/8 (35)	FS-FM-B-2	1,553	(706)			
M-0120-S	12	1	4PE-12	2	11100	134.5	108.0	95.3	73.8	64.9	47.9	40.6	34.1	34.6	53.3	17.3	26.6	14.4	22.0	93.9 (43)	7/8 (22)	1 3/8 (35)	FS-FM-C-2	1,571	(714)			
M-0140-S	14	1	4NE-14	3	12250	157.8	125.8	111.2	87.5	77.1	57.4	48.9	41.3	39.7	59.2	19.9	30.0	15.9	23.2	93.9 (43)	7/8 (22)	1 3/8 (35)	FS-FM-C-3	1,609	(731)			
M-0150-S	15	1	4JE-15	3	15000	177.2	141.6	125.2	98.5	85.7	64.3	54.6	45.7	50.0	76.5	25.0	38.3	20.0	30.6	115.6 (53)	7/8 (22)	1 5/8 (41)	FS-FM-C-3	1,745	(793)			

SINGLE COMPRESSOR

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	CFM	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APPROX. DRY WEIGHT	
							-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	LB (KG)	IN (mm)		IN (mm)	IN (mm)
L-0040-S	4	1	4EE-4	1	3950	38.3	34.2	29.8	22.5	19.5	16.5	11.5	7.4	20.1	28.9	9.2	13.6	7.4	10.9	22.6 (10)	1/2 (13)	1 1/8 (29)	FS-FM-A-1	802	(365)			
L-0050-S	5	1	4DE-5	1	5000	45.9	40.2	35.4	26.0	22.2	19.0	13.4	8.6	20.6	31.8	10.8	16.5	9.0	13.7	22.6 (10)	5/8 (16)	1 1/8 (29)	FS-FM-A-1	866	(394)			
L-0060-S	6	1	4CE-6	1	5000	54.7	48.5	42.8	32.8	28.2	24.3	17.1	11.5	25.0	37.3	14.2	20.8	11.2	16.4	40.6 (18)	5/8 (16)	1 1/8 (29)	FS-FM-A-1	907	(412)			
L-0070-S	7	1	4VE-7	1	5300	53.8	48.0	42.0	31.6	27.1	23.0	15.3	9.7	24.4	36.5	12.2	18.3	9.6	14.4	40.6 (18)	5/8 (16)	1 1/8 (29)	FS-FM-B-1	1,228	(558)			
L-0090-S	9	1	4TE-9	2	8200	74.1	65.0	57.3	42.2	36.1	30.9	20.1	12.5	28.2	40.9	14.1	20.7	12.2	17.7	40.6 (18)	5/8 (16)	1 3/8 (35)	FS-FM-B-2	1,278	(581)			
L-0120-S	12	1	4PE-12	2	8200	80.8	70.4	61.8	46.0	39.5	33.1	21.8	13.2	34.6	48.9	17.3	24.7	14.4	20.5	64.6 (29)	5/8 (16)	1 3/8 (35)	FS-FM-B-2	1,341	(610)			
L-0140-S	14	1	4NE-14	2	10000	95.6	84.6	73.5	56.0	47.7	40.8	27.2	17.0	39.7	59.6	19.9	29.9	15.9	23.9	64.6 (29)	7/8 (22)	1 3/8 (35)	FS-FM-B-2	1,339	(609)			
L-0150-S	15	1	4JE-15	2	9550	106.5	94.2	82.8	61.9	53.1	44.5	32.2	20.6	50.0	70.3	25.0	35.3	20.0	28.2	93.9 (43)	7/8 (22)	1 5/8 (41)	FS-FM-C-2	1,623	(738)			
L-0180-S	18	1	4HE-18	2	11100	125.4	111.1	97.9	73.6	63.5	53.5	38.8	25.1	54.1	77.6	27.1	38.9	21.7	31.1	93.9 (43)	7/8 (22)	1 5/8 (41)	FS-FM-C-2	1,632	(742)			
L-0230-S	23	1	4GE-23	3	13500	148.3	131.8	115.3	88.6	76.0	65.3	45.5	30.4	57.7	83.9	28.8	40.2	23.1	32.2	115.6 (53)	7/8 (22)	2 1/8 (54)	FS-FM-C-3	1,781	(809)			
L-0250-S	25	1	6JE-25	3	15000	158.0	139.6	122.7	92.8	78.6	66.7	48.2	30.9	71.0	102.8	35.5	51.4	28.4	41.1	115.6 (53)	7/8 (22)	2 1/8 (54)	FS-FM-C-3	1,828	(831)			

SINGLE COMPRESSOR

*See Capacity Correction Factors on PG.9

Compressor RLA: Rated Load Amperage (RLA) estimated to the full load of the compressor RLA = Maximum Continuous Current (MCC) / 1.56
Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

MCA: Minimum Circuit Amperage (MCA) = RLA of the largest compressor X 1.25 + SUM RLA other compressor(s) + Total FLA Fans + Control panel load
FLA Fan: Full Load Amperage (FLA) of the fans



TECHNICAL DATA - APPLICATION TEMPERATURE

Performance based on Bitzer EcoLine Compressor

DUAL SEMI-HERMETIC COMPRESSORS



R-407a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT		
						UNIT	HP	MODEL	CFM	+7.2°C	+4.4°C	+1.7°C	-1.1°C	-3.9°C	-6.7°C	-9.4°C	-12°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB (KG)	IN (mm)	IN (mm)
H-0040-D	4	2	2GE-2	1	4200	60.6	55.0	49.8	45.0	40.2	36.1	32.0	28.6	9.8	25.9	4.3	11.7	3.3	9.1	40.6	(18)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,092	(497)
H-0050-D	4	2	2FE-2	1	5300	76.5	69.4	62.9	56.8	50.8	45.6	40.5	35.8	9.0	26.3	4.1	12.2	3.2	9.6	40.6	(18)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,092	(497)
H-0060-D	4	2	2EE-2	2	8200	92.2	83.6	74.9	67.6	60.2	53.5	47.3	41.6	10.8	29.9	4.9	14.1	3.6	10.6	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,282	(583)
H-0080-D	6	2	2DE-3	2	8200	107.2	97.1	87.8	78.5	70.7	62.8	55.5	49.0	15.3	40.0	7.2	19.3	5.1	14.0	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,322	(601)
H-0100-D	8	2	2CE-4	2	9200	129.3	117.2	106.1	95.8	85.5	76.8	68.1	60.1	18.2	48.8	8.1	22.3	6.5	17.9	93.9	(43)	7/8	(22)	1 3/8	(35)	FS-FM-B-2	1,353	(615)
H-0120-D	10	2	4FE-5	2	10000	141.3	128.0	115.8	104.5	94.0	83.5	73.9	65.9	24.2	64.5	13.1	34.5	8.7	23.6	93.9	(43)	7/8	(22)	1 3/8	(35)	FS-FM-B-2	1,430	(650)
H-0140-D	12	2	4EE-6	3	13500	180.5	162.1	147.9	132.2	118.9	105.7	94.5	83.3	28.1	72.8	13.4	35.3	9.4	25.2	115.6	(53)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,689	(768)
H-0160-D	14	2	4DE-7	3	15000	211.0	189.3	171.0	154.2	138.6	123.0	109.9	96.8	31.0	83.8	15.3	41.4	11.0	30.4	115.6	(53)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,754	(797)

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT		
						UNIT	HP	MODEL	CFM	-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB (KG)	IN (mm)	IN (mm)
M-0050-D	4	2	2EE-2	1	4200	60.9	48.8	43.5	34.1	29.7	22.2	18.9	16.2	10.8	28.1	4.9	13.1	3.6	9.7	40.6	(18)	5/8	(16)	1 1/8	(29)	FS-FM-B-1	1,207	(549)
M-0060-D	4	2	2DE-2	1	5300	73.5	59.2	52.8	41.1	36.2	27.3	23.3	19.8	11.7	32.3	5.8	16.1	4.1	11.9	40.6	(18)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,217	(553)
M-0070-D	4	2	2CE-3	2	8200	94.1	75.3	67.4	52.8	46.2	34.8	29.9	25.5	13.4	35.8	6.3	17.3	5.1	14.0	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,306	(594)
M-0080-D	6	2	4FE-3	2	8200	111.6	93.0	84.0	68.6	61.2	48.2	42.6	37.4	18.0	46.1	8.1	21.3	6.2	16.4	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,360	(618)
M-0100-D	8	2	4EE-4	2	10000	125.0	100.6	89.8	70.0	61.8	46.8	40.0	34.0	20.1	55.2	9.2	25.7	7.4	20.7	93.9	(43)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,407	(639)
M-0120-D	10	2	4DE-5	3	12250	151.3	120.6	107.7	84.0	73.2	54.7	46.8	39.7	20.6	53.8	10.8	28.5	9.0	23.6	93.9	(43)	7/8	(22)	1 3/8	(35)	FS-FM-C-3	1,649	(750)
M-0140-D	12	2	4CE-6	3	15000	183.1	147.7	132.1	102.3	89.5	68.8	59.2	50.5	25.0	70.3	14.2	39.0	11.2	30.8	115.6	(53)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,733	(788)

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	QTY	AC TYPE	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS				FRAME TYPE	APROX. DRY WEIGHT		
						UNIT	HP	MODEL	CFM	-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C	COMP. RLA	SYSTEM MCA		COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB (KG)	IN (mm)	IN (mm)
L-0040-D	4	2	2DE-2	1	4200	44.9	39.7	35.0	26.3	22.7	19.2	13.2	8.3	11.7	30.1	5.8	15.1	4.2	11.1	40.6	(18)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,207	(549)
L-0050-D	4	2	2CE-3	1	5300	55.9	49.6	43.8	33.2	28.8	24.5	17.2	11.3	13.4	36.2	6.3	17.2	5.1	13.9	40.6	(18)	5/8	(16)	1 3/8	(35)	FS-FM-B-1	1,227	(558)
L-0060-D	6	2	4FE-3	1	5300	61.0	54.1	47.7	36.7	31.9	27.1	19.1	12.8	18.0	46.5	8.1	21.2	6.2	16.4	40.6	(18)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,281	(582)
L-0080-D	8	2	4EE-4	2	8200	78.2	69.3	60.4	45.6	39.5	33.5	23.0	14.8	20.1	50.8	9.2	23.8	7.4	19.1	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,368	(622)
L-0100-D	10	2	4DE-5	2	8200	88.8	78.5	69.1	52.7	45.0	38.6	26.8	17.2	20.6	52.0	10.8	27.4	9.0	22.7	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-B-2	1,383	(628)
L-0120-D	12	2	4CE-6	2	10000	109.4	97.0	85.6	64.9	56.3	48.5	34.2	22.9	25.0	66.3	14.2	37.0	11.2	29.2	64.6	(29)	5/8	(16)	1 5/8	(41)	FS-FM-C-3	1,609	(731)
L-0140-D	14	2	4VE-7	2	9550	111.7	98.4	86.3	65.0	55.0	46.7	31.3	19.4	24.4	62.7	12.2	31.5	9.6	24.8	64.6	(29)	5/8	(16)	1 5/8	(41)	FS-FM-C-3	1,791	(814)
L-0150-D	18	2	4TE-9	3	12250	138.8	122.8	106.8	81.4	69.3	59.4	39.5	25.0	28.2	73.1	14.1	36.8	12.2	31.5	93.9	(43)	7/8	(22)	2 1/8	(54)	FS-FM-C-4	1,906	(866)
L-0180-D	24	2	4PE-12	3	15000	156.0	137.4	120.5	90.8	76.8	65.2	42.8	26.5	34.6	91.9	17.3	45.9	14.4	38.0	93.9	(43)	7/8	(22)	2 1/8	(54)	FS-FM-C-5	1,942	(883)
L-0220-D	28	2	4NE-14	3	15000	180.6	159.5	140.1	106.2	91.5	78.1	54.2	34.3	39.7	103.3	19.9	51.8	15.9	41.4	115.6	(53)	7/8	(22)	2 1/8	(54)	FS-FM-C-6	2,004	(911)

*See Capacity Correction Factors on PG.9

Compressor RLA: Rated Load Amperage (RLA) estimated to the full load of the compressor RLA = Maximum Continuous Current (MCC)/1.56
Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

MCA: Minimum Circuit Amperage (MCA) = RLA of the largest compressor X 1.25 + SUM RLA other compressor(s) + Total FLA Fans + Control panel load
FLA Fan: Full Load Amperage (FLA) of the fans

Performance based on Bitzer EcoLine Compressor

TECHNICAL DATA - APPLICATION TEMPERATURE



TRIPLE SEMI-HERMETIC COMPRESSORS

R-407a

H: HIGH/MEDIUM: +45°F (+7.2°C) TO +10°F (-12.2°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	AC TYPE	QTY	CFM	+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
							+45°F	+40°F	+35°F	+30°F	+25°F	+20°F	+15°F	+10°F	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB	(KG)		IN	(mm)	IN	(mm)
H-0060-T	6	3	2GE-2	1	5800	90.9	81.8	74.0	66.9	60.2	53.6	48.0	42.4	9.8	37.9	4.3	17.0	3.3	13.1	64.6	(29)	5/8	(15)	1 3/8	(35)	FS-FM-C-1	1,483	(674)
H-0080-T	9	3	2FE-3	2	8200	115.7	105.0	95.1	85.2	76.8	68.4	60.7	53.7	11.3	42.3	5.1	19.7	4.4	16.8	64.6	(29)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,547	(703)
H-0100-T	9	3	2EE-3	2	9550	134.9	122.2	109.4	98.6	88.6	78.7	69.5	61.2	14.0	53.3	6.5	25.2	5.3	20.5	64.6	(29)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,700	(773)
H-0110-T	9	3	2DE-3	2	11100	158.0	143.2	129.4	116.7	104.0	93.2	82.5	72.7	15.3	59.7	7.2	28.4	5.1	20.6	93.9	(43)	7/8	(22)	1 3/8	(35)	FS-FM-C-2	1,700	(773)
H-0140-T	12	3	2CE-4	3	15000	195.5	177.4	160.6	143.7	129.4	115.2	103.1	91.0	18.2	73.2	8.1	33.3	6.5	26.7	93.9	(43)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,778	(808)
H-0150-T	15	3	4FE-5	3	15000	212.0	192.1	173.7	156.7	141.0	125.3	110.9	98.8	24.2	92.7	13.1	49.6	8.7	33.9	115.6	(53)	7/8	(22)	1 5/8	(41)	FS-FM-C-3	1,938	(881)

TRIPLE COMPRESSORS

M: MEDIUM/LOW: +30°F (-1.1°C) TO -20°F (-29°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	AC TYPE	QTY	CFM	+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
							+30°F	+20°F	+15°F	+5°F	0°F	-10°F	-15°F	-20°F	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB	(KG)		IN	(mm)	IN	(mm)
M-0040-T	4.5	3	2HE-1	1	4250	55.9	44.7	40.0	31.3	27.3	20.5	17.5	14.9	6.5	24.9	3.1	12.1	2.4	9.4	64.6	(29)	1/2	(16)	1 1/8	(29)	FS-FM-C-1	1,483	(674)
M-0060-T	6	3	2FE-2	1	5800	81.5	65.3	58.4	45.8	40.5	30.5	26.5	22.6	9.0	35.3	4.1	18.3	3.2	12.8	64.6	(29)	5/8	(22)	1 3/8	(35)	FS-FM-C-1	1,493	(678)
M-0070-T	6	3	2EE-2	2	8200	95.9	75.6	68.1	53.0	46.1	34.2	29.2	24.6	10.8	40.7	4.9	19.0	3.6	14.2	64.6	(29)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,682	(765)
M-0090-T	6	3	2DE-2	2	8200	110.3	88.7	79.2	61.7	54.3	40.5	35.0	29.6	11.7	43.6	5.8	22.0	4.2	16.1	64.6	(29)	5/8	(22)	1 3/8	(35)	FS-FM-C-2	1,682	(765)
M-0110-T	9	3	2CE-3	2	11100	138.6	111.9	99.1	77.6	67.9	51.6	44.3	37.8	13.4	53.6	6.3	25.5	5.1	20.6	93.9	(43)	7/8	(22)	1 5/8	(42)	FS-FM-C-2	1,738	(790)
M-0120-T	9	3	4FE-3	3	12250	154.3	123.4	110.4	86.5	76.5	57.7	49.6	42.3	18.0	68.1	8.1	31.4	6.2	24.2	93.9	(43)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,860	(845)
M-0150-T	12	3	4EE-4	3	15000	189.3	150.9	133.3	105.0	92.7	70.1	60.1	51.0	20.1	79.3	9.2	36.9	7.4	29.7	93.9	(43)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,872	(851)

TRIPLE COMPRESSORS

L: LOW: +5°F (-15°C) TO -40°F (-40°C) SST.

MODEL	COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A*								ELECTRICAL DATA 60HZ						MECHANICAL DATA									
	SIZE	QTY	BITZER	AC TYPE	QTY	CFM	+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY	CONNECTIONS		FRAME TYPE	APROX. DRY WEIGHT			
							+10°F	+5°F	0°F	-10°F	-15°F	-20°F	-30°F	-40°F	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA	COMP. RLA	SYSTEM MCA		LB	(KG)		IN	(mm)	IN	(mm)
L-0070-T	6	3	2EE-2	1	4250	54.1	48.3	42.4	32.1	27.2	23.2	16.0	9.8	10.8	38.9	4.9	18.0	3.6	13.3	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-C-1	1,633	(742)
L-0080-T	6	3	2DE-2	1	5800	66.7	58.9	51.8	39.5	33.6	28.8	19.9	12.5	11.7	44.0	5.8	21.9	4.2	16.1	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-C-1	1,643	(747)
L-090-T	9	3	2CE-3	2	8200	84.8	74.4	65.6	49.8	43.2	36.8	25.9	16.9	13.4	49.2	6.3	23.6	5.1	19.1	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-C-2	1,697	(771)
L-0100-T	9	3	4FE-3	2	8200	92.5	82.0	72.4	55.0	47.8	40.7	29.1	19.2	18.0	64.1	8.1	29.4	6.2	22.6	64.6	(29)	5/8	(16)	1 3/8	(35)	FS-FM-C-2	1,778	(808)
L-0140-T	12	3	4EE-4	2	11100	114.8	101.6	89.5	67.6	58.5	49.6	34.6	22.3	20.1	75.3	9.2	34.9	7.4	28.1	93.9	(43)	7/8	(22)	1 5/8	(42)	FS-FM-C-2	1,831	(832)
L-0160-T	15	3	4DE-5	3	13500	134.7	119.1	104.9	79.1	68.4	57.9	40.2	25.8	20.6	78.8	10.8	41.2	9.0	34.1	115.6	(53)	7/8	(22)	1 5/8	(42)	FS-FM-C-3	1,932	(878)
L-0200-T	18	3	4CE-6	3	15000	164.1	145.4	128.3	98.5	84.5	71.9	51.3	34.4	25.0	95.3	14.2	53.2	11.1	41.7	115.6	(53)	7/8	(22)	2 1/8	(54)	FS-FM-C-3	1,968	(895)

TRIPLE COMPRESSORS

*See Capacity Correction Factors on PG.9

Compressor RLA: Rated Load Amperage (RLA) estimated to the full load of the compressor RLA = Maximum Continuous Current (MCC) /1.56
Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

MCA: Minimum Circuit Amperage (MCA) = RLA of the largest compressor X 1.25 + SUM RLA other compressor(s) + Total FLA Fans + Control panel load
FLA Fan: Full Load Amperage (FLA) of the fans

CAPACITY CORRECTION FACTORS

Ambient Temperature in °F	60	65	70	75	80	85	90	95	100	105	110	115	120	125
Capacity Factor R-404A & R-507A	1.32	1.28	1.23	1.19	1.15	1.10	1.05	1.00	0.95	0.90	0.85	0.81	0.76	0.72
Capacity Factor R-407A & R-407C	1.29	1.25	1.21	1.17	1.12	1.08	1.04	1.00	0.97	0.92	0.87	0.83	0.79	0.75

Some limitations on models with high SST.

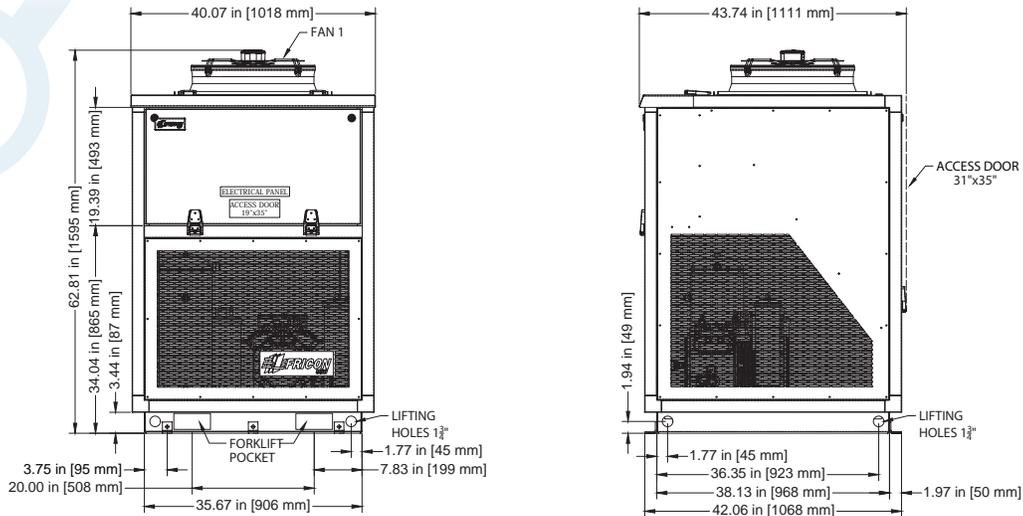
HAOP (High Ambient Operation Package) required for operation above +110°F

‡ Multiply capacity by .83 when used with 50 Hz power.

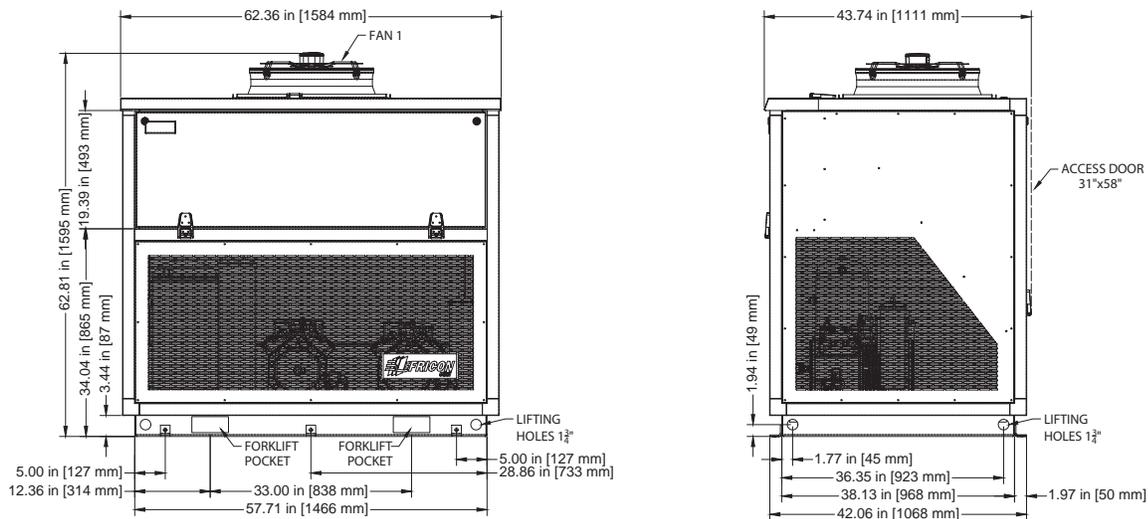
All capacities are calculated at 20°F return gas temperature and dew point values

DRAWING REFERENCE - FRAME TYPE

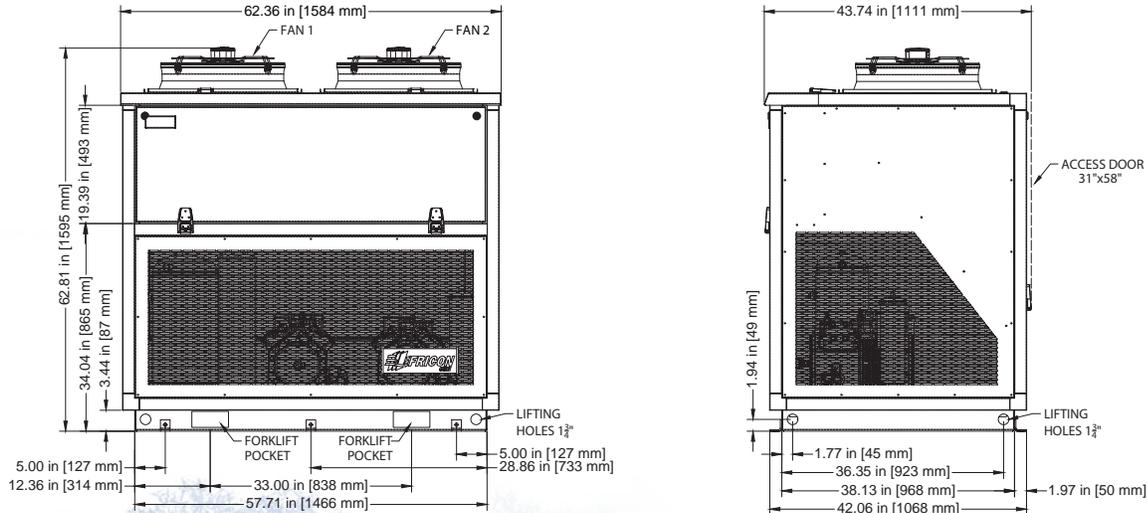
FS-FM-A-1: Single Compressor, 1 Fan



FS-FM-B-1: Single or Dual Compressor(s), 1 Fan

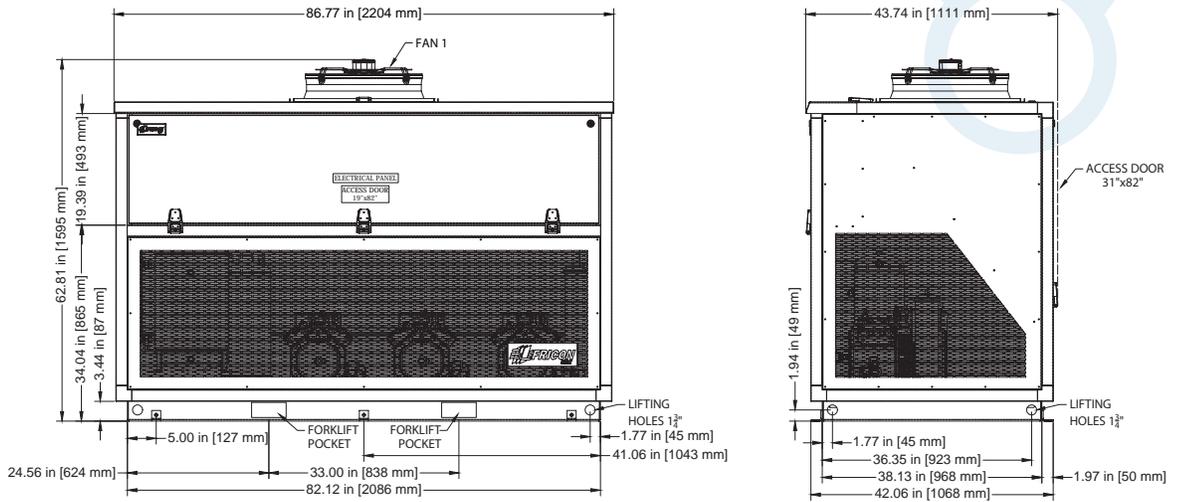


FS-FM-B-2: Single or Dual Compressor(s), 2 Fans

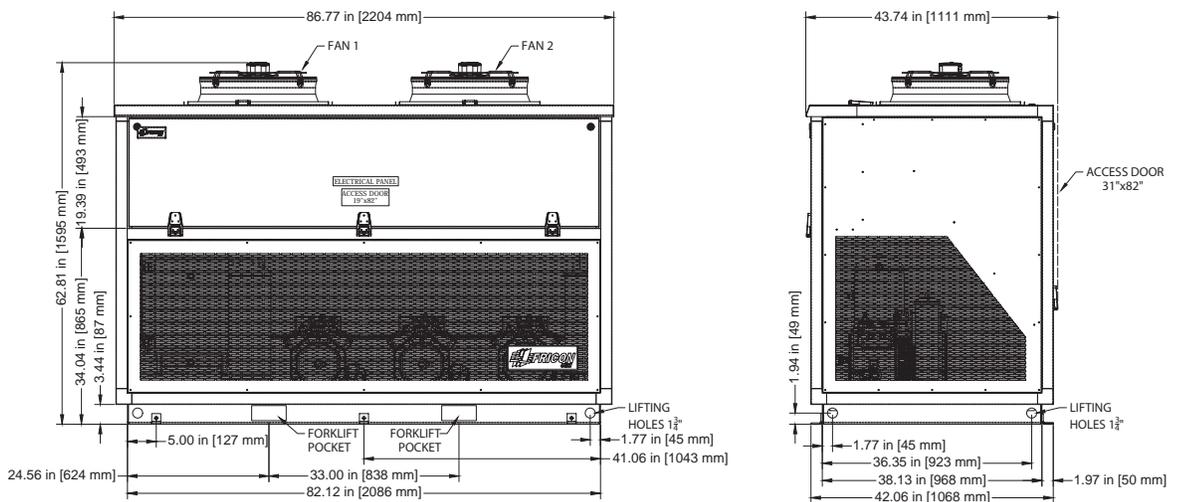


DRAWING REFERENCE - FRAME TYPE

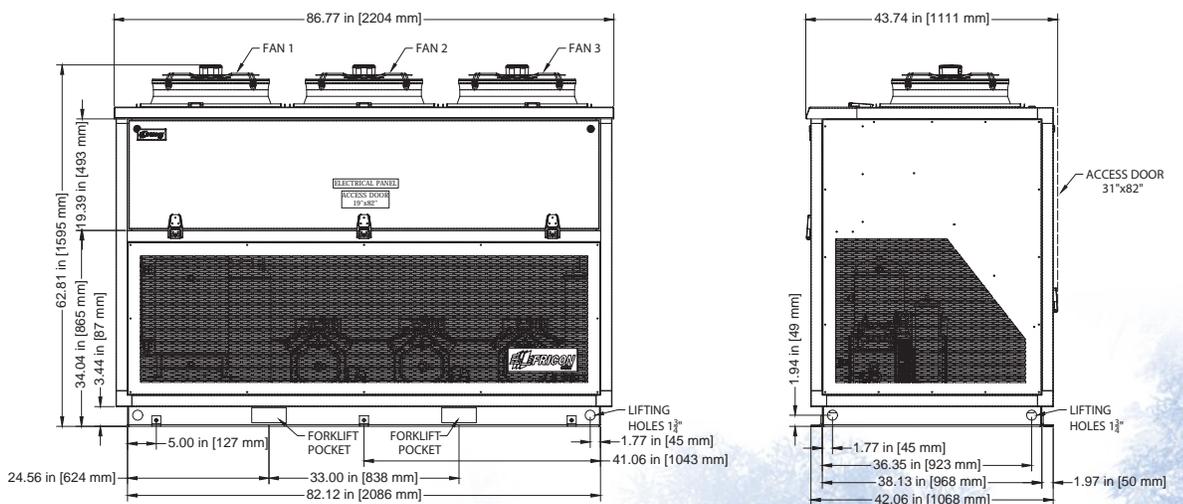
FS-FM-C-1: FS-FM-A-1: Triple Compressors, 1 Fan



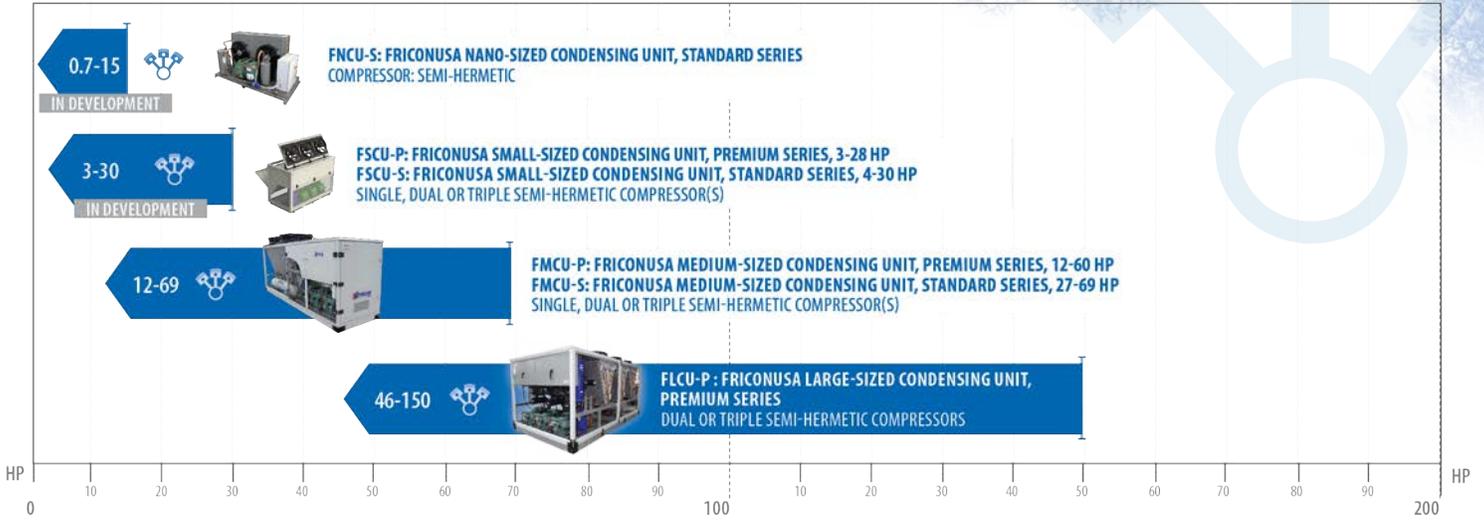
FS-FM-C-2: Dual or Triple Compressors, 2 Fans



FS-FM-C-3: Dual or Triple Compressors, 3 Fans



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