FRICON USA
THE NEW REFRIGERATION AGE

COMMERCIAL REFRIGERATION LINE

FMPS-P SERIES, A.1

MODULAR PARALLEL SYSTEM

PREMIUM SERIES, AIR COOLED CONDENSER

SEMI-HERMETIC COMPRESSOR

9 -50 HP / 700 HP PER SET

PREMIUM SERIES

FMPS™
FRICONUSA MODULAR PARALLEL SYSTEM

The new FMPS-P: FriconUSA Modular Parallel System, Premium series, air cooled condenser, are the result of many years of research to provide practical, fast, high quality, efficient solutions and reliable technology for the commercial refrigeration industry.

The most common 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.

Our exclusive "patented pending" Modular Parallel System (MPS) design permits forming a parallel system "Rack" with Variable Refrigerant Flow (VRF) by simply joining units (1 Master and up to 13 Slaves) in order to create "loops" for one or two suction groups for any application.

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 condensing 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.

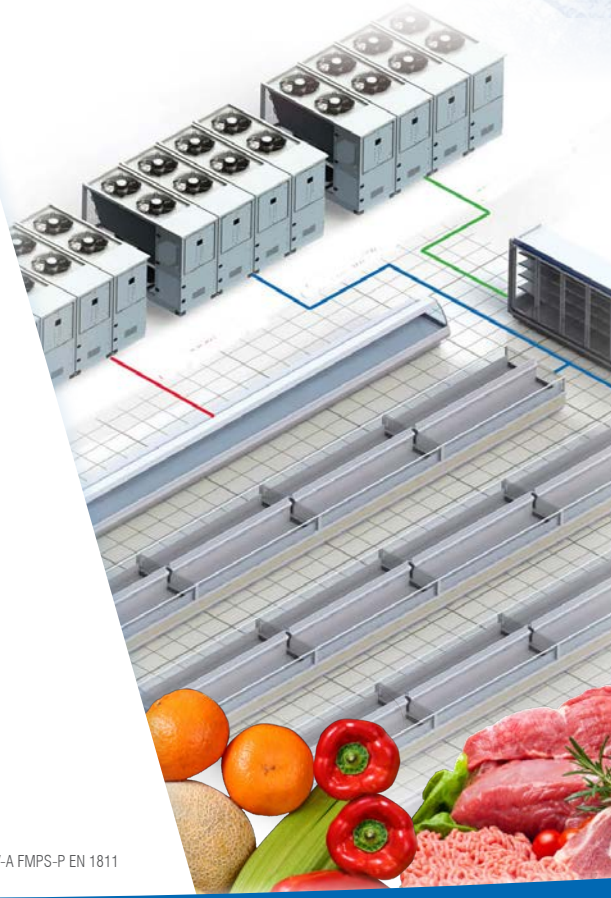
ENERGY $AVER
UP TO 35%

Our MPS system allows different "loops" to form at different evaporation temperatures depending on the application requirements, for example a supermarket typically requires circuits of +35°F, +20°F and +14°C SST for medium temperature display cases and coolers. In a conventional Rack these requirements are combined in a suction group at the lowest temperature adjusting each need with EPR valves. With our MPS you could have three suction groups at three different temperatures, minimizing the size of the compressors and increasing system efficiency.

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

10% VRF 100%
VARIABLE REFRIGERANT FLOW

VARIABLE REFRIGERANT FLOW "LOOP"
Optional



DESIGNED • ENGINEERED • ASSEMBLED IN THE USA

c UL us LISTED 508A

ECOFriendly BY FRICONUSA

POWERED BY: Bitzer

STANDARD FEATURES & BENEFITS:

- Capable of forming a parallel system (rack) with Variable Refrigerant Flow (VRF) from 2 to 8 compressors with a capacity range from 18 HP to a maximum of 200 HP* to provide a quick, efficient and economical solution to our clients.

  **Limited by the size of the liquid receiver built into the Master unit. For capacities higher than 200 HP, options for an external liquid receiver are available. Contact the manufacturer.*
- Permits the modular system capacity to expand (on a conventional rack the capacity is fixed).
- Fewer refrigerants required throughout the system.
- Bitzer Ecoline Semi-Hermetic compressor with spring mounted vibration insulation, crankcase heater and internal thermal protection.
- High efficiency semi-hermetic Bitzer Ecoline compressors with variable capacity control "CRII" between 10% and 100% on the Master unit.
- 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, powder coated, acoustically semi-insulated and weatherproof semi-enclosed compressor cabin.
- 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)
- Quiet, high efficiency, external rotor motor, two speed, AC type axial fans for a better operation.
- EC type condenser fan for the Master Unit, AC type fan for Slave(s).
- Horizontal 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.
- Suction filter and liquid drier with replaceable core.
- Suction accumulator.
- Flexible joint on suction and discharge lines on the compressor.
- Electronic oil pressure switch.
- Oil management system installed in Master unit.
- 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 460V / 3PH / 60HZ with single point power connection.
- Electronic Control System; compressor(s) and condenser fans operational management: alarms, measurement of pressure and temperature variables, 132x64 LCD backlit built-in display with 6-button keypad. Alarm management: 3 alarms for compressor(s) (overload, pressure and oil) and 1 overload alarm for condenser fans.
- Fixed high pressure compressor control.
- BMS (Building Management System): ModBus protocol for supervisor or HMI (Human Machine Interface).
- 2-year warranty.

STANDARD OPTIONS:

- Different compressor brand.
- Condenser coil with E-Coating for greater resistance to corrosion.
- Protective mesh for the condenser.
- EC type fans with variable speed (for 575V a VFD is used).
- Refrigerants: R-407a, R-448a, R-449a, R-507a
- Different power supply voltage.

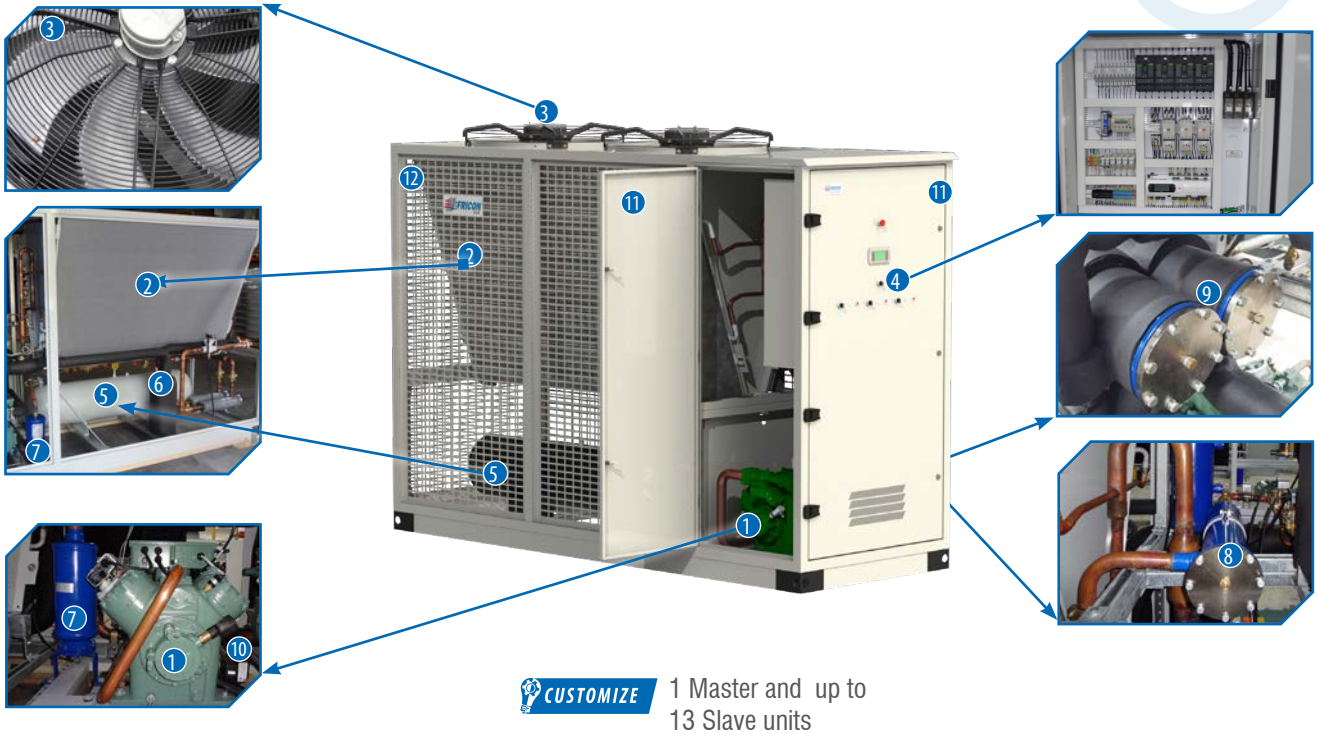
ADDITIONAL OPTIONS:

- VRF (Variable Refrigerant Flow) package to maximize the efficiency and capacity adaptability to the demand:
  - VRF-I: CRII Unloader. Infinite capacity control on the Master Unit compressor (4 cylinders: 10≈100%, 6 cylinders: 33≈100%).
  - VRF-II: VFD (Variable Frequency Drive). Infinite capacity control on the first compressor (42~116%).
  - VRF-III: Bitzer Varispeed Compressor. Infinite capacity control on the first compressor (25~145%). Only available in some models.
- FECC (Fully Enclosed Compressor Cabin) package for better soundproofing:
  - FECC-I: Fully enclosed metal compressor cabin.
  - FECC-II: Same as FECC-I with internal convoluted acoustic foam panel lining.
- 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.

    **Requires FECC-II (Fully Enclosed Compressor Cabin) package.*
- 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: air exhaust duct to the condenser plenum for cooling of the control panel and filter for the air inlet.
- 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.
- MDS (Main Disconnect Switch).
- 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 (U.S. Only).

REFERENCE

1. Compressor
2. Micro-channel condenser
3. Fans
4. Electrical control panel
5. Liquid receiver
6. Suction accumulator
7. Oil seperator
8. Liquid drier(s)
9. Suction filters
10. Electronic oil regulator
11. Service doors
12. Mesh protection (optional)



CUSTOMIZE 1 Master and up to 13 Slave units

NOMENCLATURE

MODEL

FMPS	P	A.1	H	0100	M	1	3	44	2

F: FRICONUSA
M: MODULAR
P: PARALLEL
S: SYSTEM

SERIES
P: PREMIUM

CONDENSER TYPE & VERSION
A: AIR COOLED, 1: VERSION 1

APPLICATIONS 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: +10°F (-12°C) TO -40°F (-40°C) SST.

SIZE / CAPACITY
SEE TECHNICAL DATA TABLE FOR SELECTION

CHARACTERISTIC
M: MASTER **S:** SLAVE

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

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
† *VALID ONLY FOR LOW TEMP. UNITS - NOTE: LOW TEMP. UNITS WITH R-134A CONVERT TO HIGH TEMP.*

CONDENSER, PROTECTION OPTION & FAN TYPE
MCHX: MICRO-CHANNEL CONDENSER
1: MCHX & AC FAN
2: MCHX WITH E-COATING & AC FAN
3: MCHX & EC FAN
4: MCHX WITH E-COATING & EC FAN
5: MCHX WITH MESH PROTECTION & AC FAN
6: MCHX WITH E-COATING, MESH PROTECTION & AC FAN
7: MCHX WITH MESH PROTECTION & EC FAN
8: MCHX WITH E-COATING, MESH PROTECTION & EC FAN

COMPRESSOR BRAND & TYPE
1: BITZER SEMI-HERMETIC
S: SPECIAL COMPRESSOR

TECHNICAL DATA - APPLICATION TEMPERATURE

Performance based on Bitzer Ecoline Compressor

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 / R-507A**								ELECTRICAL DATA 60HZ						MECHANICAL DATA							
															230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT	
	SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
	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							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
SINGLE COMPRESSOR	H-0200-S	20	1	4NE-20Y	2	19000	242.0	221.0	**198.7**	178.5	159.9	**144.5**	128.7	114.3	57.7	82.7	28.8	41.4	23.6	33.3	102	(46)	7/8	(22)	1 5/8	(41)	1,596	(726)
	H-0220-S	22	1	4JE-22Y	2	19000	262.0	240.0	**216.0**	196.9	176.9	**158.5**	141.5	127.4	61.5	87.5	30.8	43.9	24.4	34.3	102	(46)	7/8	(22)	1 5/8	(41)	1,678	(763)
	H-0250-S	25	1	4HE-25Y	2	19000	296.0	271.0	**248.0**	224.0	203.0	**182.6**	163.3	147.3	75.6	105.1	37.8	52.7	30.1	41.4	122	(56)	1 1/8	(29)	2 1/8	(54)	1,771	(805)
	H-0300-S	30	1	4GE-30Y	2	22750	342.0	310.0	**284.0**	259.0	233.0	**210.0**	189.8	169.4	89.7	126.5	44.9	63.5	35.9	50.5	156	(71)	1 1/8	(29)	2 1/8	(54)	1,816	(825)
	H-0330-S	33	1	6JE-33Y	2	26500	382.0	349.0	**314.0**	286.0	257.0	**232.0**	207.0	184.0	100.0	143.2	50.0	71.9	39.7	57.1	156	(71)	1 1/8	(29)	2 1/8	(54)	1,889	(858)
	H-0340-S	35	1	4FE-35Y	2	26500	395.0	363.0	**333.0**	302.0	276.0	**248.0**	223.0	202.0	95.0	137.0	47.5	68.8	38.0	55.0	189	(86)	1 1/8	(29)	2 1/8	(54)	1,866	(848)
	H-0350-S*	35	1	6HE-35Y	2	37000	449.0	407.0	**372.0**	336.0	302.0	**274.0**	245.0	219.0	105.1	153.0	52.6	76.8	41.7	60.9	189	(86)	1 1/8	(29)	2 1/8	(54)	1,963	(892)
	H-0400-S*	40	1	6GE-40Y	2	37000	490.0	449.0	**412.0**	372.0	335.0	**305.0**	273.0	244.0	141.0	197.9	70.5	99.1	56.4	79.3	222	(101)	1 3/8	(29)	2 1/8	(54)	2,000	(909)
	H-0500-S*	50	1	6FE-50Y	2	37000	567.0	521.0	**478.0**	438.0	395.0	**359.0**	322.0	292.0	143.6	201.1	71.8	100.8	57.1	80.2	268	(122)	1 3/8	(29)	2 1/8	(54)	2,048	(931)

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

	MODEL		COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A**								ELECTRICAL DATA 60HZ						MECHANICAL DATA							
															230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT	
	SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
	UNIT	HP		MODEL		CFM	-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
SINGLE COMPRESSOR	M-0150-S	15	1	4JE-15Y	2	19000	198.8	**162.2**	145.2	113.8	101.8	**80.4**	70.9	58.5	50.0	73.1	25.0	36.7	20.0	28.8	101.5	(46)	7/8	(22)	1 5/8	(42)	1,651	(750)
	M-0180-S	18	1	4HE-18Y	2	19000	227.0	**189.6**	166.1	132.1	118.4	**93.9**	83.0	72.0	54.1	78.2	27.1	39.3	21.7	30.9	122.1	(56)	7/8	(22)	1 5/8	(42)	1,679	(763)
	M-0230-S	23	1	4GE-23Y	2	22750	262.0	**215.0**	192.5	151.8	136.3	**108.6**	96.3	84.9	57.7	86.5	28.8	43.4	23.1	34.6	156.2	(71)	1 1/8	(28)	2 1/8	(42)	1,792	(814)
	M-0250-S	25	1	6JE-25Y	2	22750	284.0	**234.0**	209.0	165.2	174.8	**116.6**	102.8	90.0	71.0	103.2	35.5	51.8	28.4	43.1	156.2	(71)	1 1/8	(28)	2 1/8	(52)	1,839	(836)
	M-0270-S	28	1	4FE-28Y	2	26500	304.0	**251.0**	225.0	180.2	162.1	**129.6**	115.0	101.5	76.9	114.3	38.5	57.5	30.8	46.1	156.2	(71)	1 1/8	(28)	2 1/8	(52)	1,801	(819)
	M-0280-S	28	1	6HE-28Y	2	26500	326.0	**267.0**	241.0	189.6	170.0	**134.8**	119.2	104.7	77.6	115.2	38.8	57.9	31.0	46.4	188.6	(86)	1 1/8	(28)	2 1/8	(52)	1,904	(865)
	M-0340-S*	34	1	6GE-34Y	2	37000	364.0	**299.0**	272.0	218.0	201.0	**159.2**	141.5	125.2	84.6	127.4	42.3	63.9	33.3	50.4	188.6	(86)	1 1/8	(28)	2 1/8	(52)	1,948	(885)
	M-0440-S*	44	1	6FE-44Y	2	37000	441.0	**367.0**	330.0	264.0	238.0	**189.9**	168.5	148.6	97.4	143.4	48.7	71.9	39.1	57.7	221.7	(101)	1 1/8	(28)	2 1/8	(52)	2,002	(910)

"L" LOW: +5°F (-15°C) TO -20°F (-29°C) SST

	MODEL		COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A**								ELECTRICAL DATA 60HZ						MECHANICAL DATA							
															230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT	
	SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
	UNIT	HP		MODEL		CFM	-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
SINGLE COMPRESSOR	L-0270-S	28	1	4FE-28Y	2	19000	190.2	173.9	156.5	125.1	112.3	**99.1**	75.5	54.7	76.9	106.7	38.5	53.5	30.8	46.1	122.1	(56)	7/8	(22)	2 1/8	(52)	1,749	(795)
	L-0280-S	28	1	6HE-28Y	2	19000	200.0	182.7	163.8	131.5	116.2	**103.4**	76.9	55.9	77.6	107.6	38.8	53.9	31.0	46.4	122.1	(56)	7/8	(22)	2 1/8	(52)	1,838	(836)
	L-0340-S	34	1	6GE-34Y	2	22750	235.0	213.0	193.9	155.5	138.2	**123.7**	95.0	69.7	84.6	120.2	42.3	60.3	33.3	49.2	156.2	(71)	1 1/8	(28)	2 1/8	(52)	1,889	(859)
	L-0440-S	44	1	6FE-44Y	2	26500	278.0	251.0	229.0	183.2	164.5	**145.0**	113.2	80.9	97.4	140.0	48.7	70.3	39.1	56.5	188.6	(86)	1 1/8	(28)	2 1/8	(52)	1,953	(888)

** Models with 900mm EC Fan as Standard (for 575V a VFD is used).*

***See Capacity Correction Factors on PG.6*

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

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								
														230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT		
SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
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							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
H-0200-S	20	1	4NE-20Y	2	19000	231.0	208.0	**188.1**	168.3	150.0	**134.5**	119.1	104.9	57.7	82.7	28.8	41.4	23.6	33.3	111	(51)	7/8	(22)	1 5/8	(41)	1,596	(726)
H-0220-S	22	1	4JE-22Y	2	19000	251.0	228.0	**204.0**	184.5	164.4	**145.9**	130.3	114.7	61.5	87.5	30.8	43.9	24.4	34.3	111	(51)	7/8	(22)	1 5/8	(41)	1,678	(763)
H-0250-S	25	1	4HE-25Y	2	19000	283.0	256.0	**232.0**	209.0	186.3	**167.0**	147.5	131.1	75.6	105.1	37.8	52.7	30.1	41.4	134	(61)	1 1/8	(29)	2 1/8	(54)	1,771	(805)
H-0300-S	30	1	4GE-30Y	2	22750	331.0	300.0	**270.0**	244.0	218.0	**195.4**	174.8	155.8	89.7	126.5	44.9	63.5	35.9	50.5	171	(78)	1 1/8	(29)	2 1/8	(54)	1,816	(825)
H-0330-S	33	1	6JE-33Y	2	26500	367.0	333.0	**301.0**	269.0	239.0	**217.0**	191.5	170.2	100.0	143.2	50.0	71.9	39.7	57.1	171	(78)	1 1/8	(29)	2 1/8	(54)	1,889	(858)
H-0340-S	35	1	4FE-35Y	2	26500	387.0	351.0	**318.0**	288.0	259.0	**230.0**	206.0	181.7	95.0	137.0	47.5	68.8	38.0	55.0	207	(94)	1 1/8	(29)	2 1/8	(54)	1,866	(848)
H-0350-S*	35	1	6HE-35Y	2	37000	439.0	399.0	**358.0**	323.0	289.0	**259.0**	232.0	202.0	105.1	153.0	52.6	76.8	41.7	60.9	207	(94)	1 1/8	(29)	2 1/8	(54)	1,963	(892)
H-0400-S*	40	1	6GE-40Y	2	37000	492.0	447.0	**405.0**	366.0	326.0	**293.0**	260.0	231.0	141.0	197.9	70.5	99.1	56.4	79.3	243	(111)	1 1/8	(29)	2 1/8	(54)	2,000	(909)
H-0500-S*	50	1	6FE-50Y	2	37000	565.0	513.0	**464.0**	423.0	378.0	**339.0**	303.0	267.0	143.6	201.1	71.8	100.8	57.1	80.2	294	(134)	1 1/8	(29)	2 1/8	(54)	2,048	(931)

SINGLE COMPRESSOR

"M" MEDIUM: +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								
														230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT		
SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
UNIT	HP		MODEL		CFM	-1.1°C	-7°C	-10°C	-15°C	-18°C	-23°C	-26°C	-29°C							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
M-0150-S	15	1	4JE-15Y	2	19000	185.8	148.8	131.8	102.9	89.7	**66.7**	56.0	46.4	50.0	73.1	25.0	36.7	20.0	28.8	111	(51)	7/8	(22)	1 5/8	(42)	1,651	(750)
M-0180-S	18	1	4HE-18Y	2	19000	215.0	172.3	152.8	119.7	104.6	**79.1**	66.8	56.4	54.1	78.2	27.1	39.3	21.7	30.9	134	(61)	7/8	(22)	1 5/8	(42)	1,679	(763)
M-0230-S	23	1	4GE-23Y	2	22750	251.0	202.0	179.5	141.5	124.1	**93.7**	80.5	68.5	57.7	86.5	28.8	43.4	23.1	34.6	171	(78)	1 1/8	(28)	2 1/8	(42)	1,792	(814)
M-0250-S	25	1	6JE-25Y	2	22750	268.0	217.0	191.7	149.4	131.6	**97.7**	82.9	69.6	71.0	103.2	35.5	51.8	28.4	43.1	171	(78)	1 1/8	(28)	2 1/8	(52)	1,839	(836)
M-0270-S	28	1	4FE-28Y	2	26500	293.0	236.0	211.0	164.3	145.3	**109.2**	93.5	79.3	76.9	114.3	38.5	57.5	30.8	46.1	171	(78)	1 1/8	(28)	2 1/8	(52)	1,801	(819)
M-0280-S	28	1	6HE-28Y	2	26500	313.0	254.0	225.0	175.9	155.2	**116.0**	98.9	83.5	77.6	115.2	38.8	57.9	31.0	46.4	207	(94)	1 1/8	(28)	2 1/8	(52)	1,904	(865)
M-0340-S*	34	1	6GE-34Y	2	37000	367.0	297.0	264.0	207.0	180.7	**135.4**	115.7	97.8	84.6	127.4	42.3	63.9	33.3	50.4	207	(94)	1 1/8	(28)	2 1/8	(52)	1,948	(885)
M-0440-S*	44	1	6FE-44Y	2	37000	428.0	347.0	308.0	244.0	213.0	**160.1**	138.6	117.4	97.4	143.4	48.7	71.9	39.1	57.7	243	(111)	1 1/8	(28)	2 1/8	(52)	2,002	(910)

SINGLE COMPRESSOR

"L" LOW: +10°F (-12°C) TO -40°F (-40°C) SST

MODEL		COMPRESSOR		FAN		EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A**								ELECTRICAL DATA 60HZ						MECHANICAL DATA								
														230 VOLT		460 VOLT		575 VOLT		LIQUID RECEIVER CAPACITY		CONNECTIONS				APROX. WEIGHT		
SIZE		QTY	BITZER	QTY	AC TYPE	+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			LIQUID		SUCTION			
UNIT	HP		MODEL		CFM	-12°C	-15°C	-18°C	-23°C	-26°C	-29°C	-35°C	-40°C							LB	(KG)	IN	(mm)	IN	(mm)	LB	(KG)
L-0270-S	28	1	4FE-28Y	2	19000	181.3	159.3	140.8	106.7	91.3	**77.3**	56.3	36.4	76.9	106.7	38.5	53.5	30.8	46.1	134	(61)	7/8	(22)	2 1/8	(52)	1,749	(795)
L-0280-S	28	1	6HE-28Y	2	19000	192.1	170.3	150.2	113.2	96.5	**82.4**	58.2	37.1	77.6	107.6	38.8	53.9	31.0	46.4	134	(61)	7/8	(22)	2 1/8	(52)	1,838	(836)
L-0340-S	34	1	6GE-34Y	2	22750	221.0	194.0	173.0	129.1	111.5	**95.3**	71.7	47.0	84.6	120.2	42.3	60.3	33.3	49.2	171	(78)	1 1/8	(28)	2 1/8	(52)	1,889	(859)
L-0440-S	44	1	6FE-44Y	2	26500	264.0	234.0	207.0	156.4	133.7	**114.5**	83.1	54.6	97.4	140.0	48.7	70.3	39.1	56.5	207	(94)	1 1/8	(28)	2 1/8	(52)	1,953	(888)

SINGLE COMPRESSOR

** Models with 900mm EC Fan as Standard (for 575V a VFD is used).*

***See Capacity Correction Factors on PG.6*

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

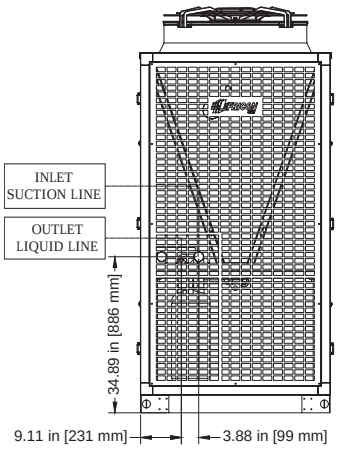
Ambient Temperature in °F	60	65	70	75	80	85	90	95	100	105	110	115	120	125
Capacity Factor R-404A & R-507A	1.32	1.28	1.23	1.19	1.15	1.10	1.05	**1.00**	0.95	0.90	0.85	0.81	0.76	0.72
Capacity Factor R-407A & R-407C	1.29	1.25	1.21	1.17	1.12	1.08	1.04	**1.00**	0.97	0.92	0.87	0.83	0.79	0.75

Some limitations on models with high SST.
HAOP (High Ambient Operation Package) required for operation above +110°F

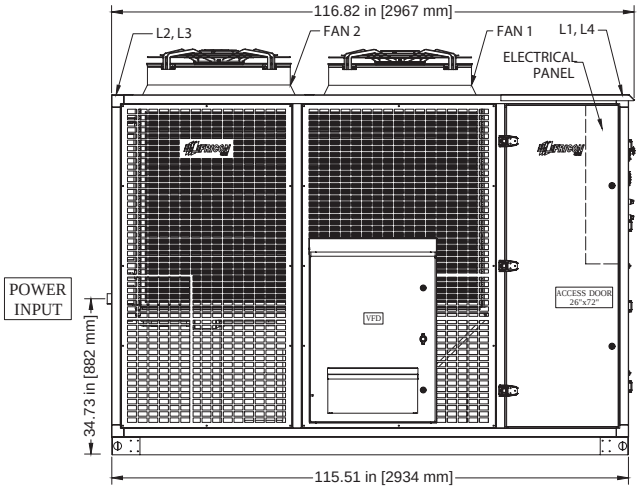
‡ Multiply capacity by .83 when used with 50 Hz power.
All capacities are calculated at 20ºF return gas temperature and dew point values

DRAWINGS

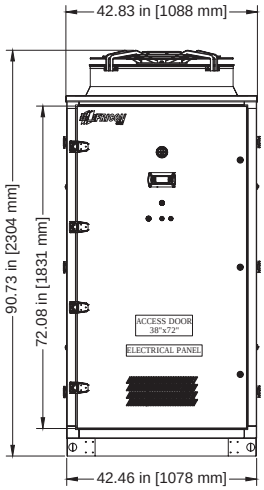
2 fans, 800mm



REAR VIEW

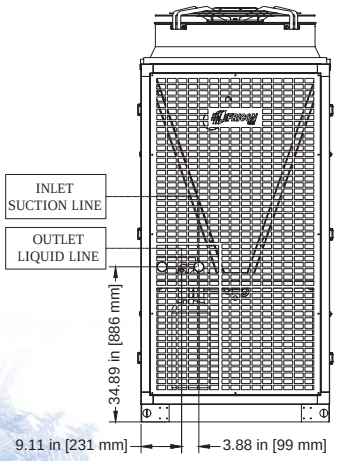


RIGHT SIDE VIEW

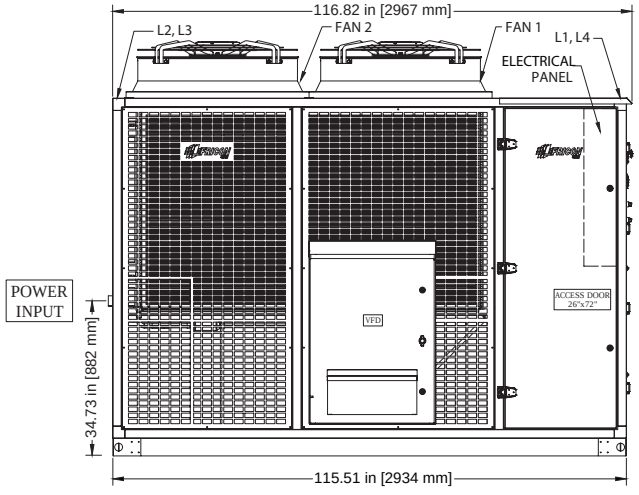


FRONT VIEW

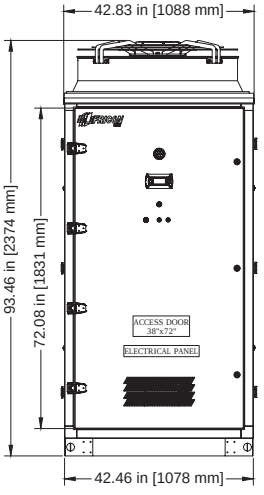
2 fans, 900mm



REAR VIEW



RIGHT SIDE VIEW



FRONT VIEW

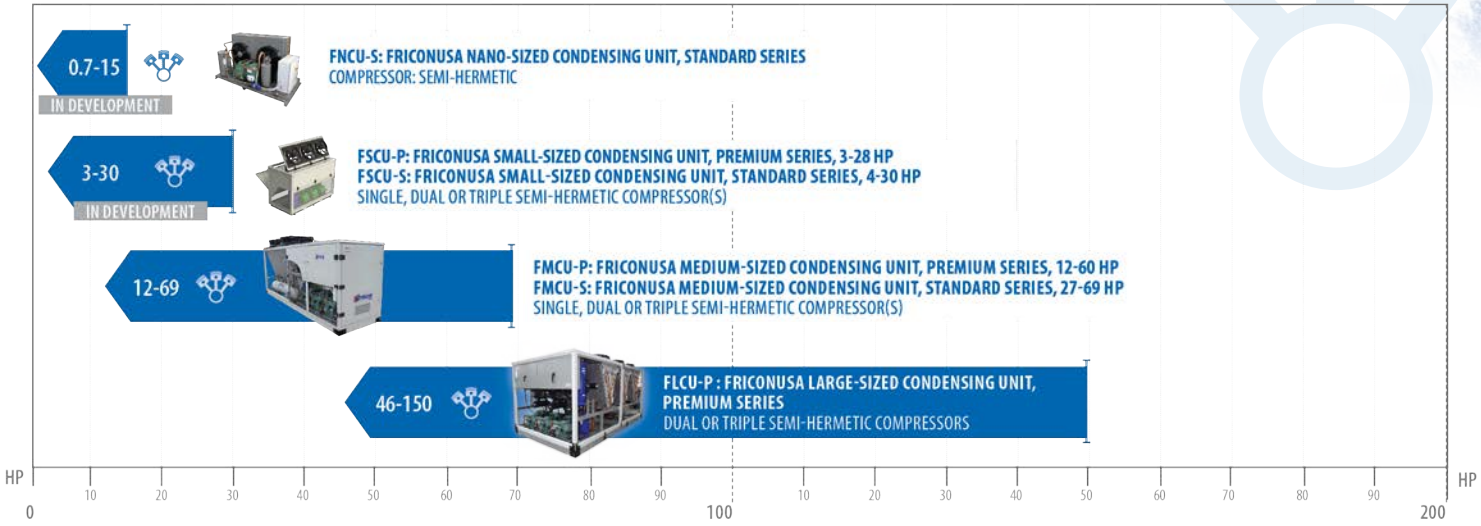
SUBJECT TO CHANGE ACCORDING TO ACCESSORIES/OPTIONS. PLEASE CONSULT THE FACTORY FOR SPECIFIC INFORMATION.

NOTES

RELATED EQUIPMENT

FRICONUSA AIR COOLED CONDENSING UNITS

COMMERCIAL REFRIGERATION LINE



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