



COMMERCIAL REFRIGERATION LINE

The FMCU-P: FiconUSA Medium-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 15 to 60 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 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.

For Extra "X" Low application temperature, the unit has a Bitzer two-stage semi-hermetic compressor with sub-cooling. 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



FMCU-P SERIES, A.1

MEDIUM-SIZED CONDENSING UNIT

PREMIUM SERIES, AIR COOLED CONDENSER
SINGLE, DUAL OR TRIPLE SEMI-HERMETIC COMPRESSOR(S)

15 – 60 HP



DESIGNED • ENGINEERED • ASSEMBLED
IN USA

US LISTED
508A

ECOFriendly
BY FRICONUSA

POWERED BY:

REV-B FMCU-P EN 1809



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, 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.
- 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 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 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 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: Doors (front and sides) with nylon hinges and locks with a universal key allow for a secure, quick and easy access to the control panel, compressor(s) and other system components without having to remove screws.

Easy maintenance: The horizontal liquid receiver, filters, liquid solenoid and sight glass are secured on the sides of the unit with sufficient space for service ensuring better condenser cleaning.

Waterproof: Compressor cabinet and electrical control panel located on the front of the unit and are designed to operate outdoors.

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-407c, 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 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.
- 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 and 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, thermally insulated compressor cabin and control panel with ventilated heating.
*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).

Less space: Because we use high efficiency V-shaped with micro-channel condenser coils with vertical air discharge and a strong but lightweight aluminum structure our FMCU occupy less space compared to similar equipment on the market, significantly reducing the need for costly wasted space in mechanical rooms or mezzanines.

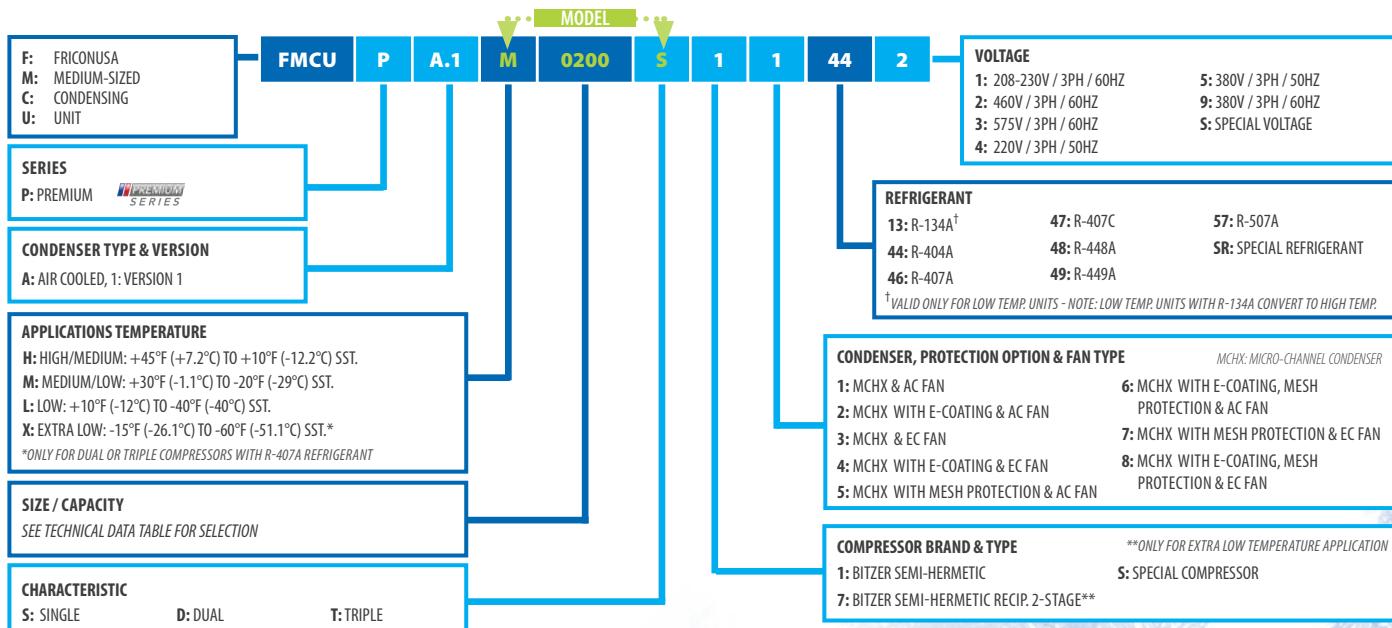
Cost effective: The dual or triple FMCU's are a parallel system, with 2 or 3 compressors respectively, with all the components necessary to operate a suction group as efficiently as a conventional parallel "Rack" system but at a lower cost.

Quiet operation: Using external rotor motors fans with cast aluminum curved wing impeller, optimized venturi plate offers high performance air volume, low energy consumption and noise reduction; combined with an acoustically isolated compressor cabin permits a quiet operation.

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



NOMENCLATURE



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.

| SINGLE COMPRESSOR | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|-------------------|-------|----|------------|--------|--------|-------|--|-------|--------|--------|--------|--------|--------|--------|----------------------|-----------|------------|-----------|------------|-----------|-----------------|--------------------------|-------------|------|---------------|-------------|---------------|
| | SIZE | | QTY | BITZER | ACTYPE | QTY | MODEL | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | | |
| | UNIT | HP | | | | | | 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 | 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) | 15/8 | (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) | 15/8 | (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) | 11/8 | (29) | 21/8 | (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) | 11/8 | (29) | 21/8 | (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) | 11/8 | (29) | 21/8 | (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) | 11/8 | (29) | 21/8 | (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) | 11/8 | (29) | 21/8 | (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) | 13/8 | (29) | 21/8 | (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) | 13/8 | (29) | 21/8 | (54) | 2,048 (931) | |

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

| SINGLE COMPRESSOR | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|-------------------|-------|----|------------|--------|--------|-------|--|-------|--------|-------|-------|-------|-------|-------|----------------------|-----------|------------|-----------|------------|-----------|-----------------|--------------------------|-------------|------|---------------|-------------|---------------|
| | SIZE | | QTY | BITZER | ACTYPE | QTY | MODEL | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | | |
| | UNIT | HP | | | | | | 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 | 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) | 15/8 | (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) | 15/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (52) | 2,002 (910) | |

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

| SINGLE COMPRESSOR | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|-------------------|-------|----|------------|--------|--------|-------|--|-------|-------|-------|-------|-------|-------|-------|----------------------|-----------|------------|-----------|------------|-----------|-----------------|--------------------------|-------------|------|---------------|-------------|---------------|
| | SIZE | | QTY | BITZER | ACTYPE | QTY | MODEL | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | | |
| | UNIT | HP | | | | | | 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 | 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) | 21/8 | (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) | 21/8 | (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) | 11/8 | (28) | 21/8 | (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) | 11/8 | (28) | 21/8 | (52) | 1,953 (888) | |

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

**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



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 / R-507A** | | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | |
|-----------|------|------------|--------|--|--------|--------|--------|--------|--------|--------|--------|--------|----------------------|-------|-----------|------------|-----------|------------|-----------------|------------|--------------------------|-------------|-----------|---------------|
| | | | | QTY | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT |
| SIZE | 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 | IN (mm) | IN (mm) | LB | (KG) | | | | | | |
| H-0160-D | 14 | 2 | 4DE-7 | 2 | 19000 | 230.0 | 209.0 | 188.5 | 171.7 | 156.1 | 138.5 | 123.9 | 110.5 | 31.0 | 80.4 | 15.3 | 39.8 | 11.0 | 28.6 | 101.5 | (46) | 7/8 (22) | 15/8 (41) | 1,877 (853) |
| H-0180-D | 18 | 2 | 4CE-9 | 2 | 19000 | 273.0 | 246.0 | 224.0 | 202.0 | 183.2 | 164.0 | 146.4 | 130.3 | 34.2 | 87.6 | 17.1 | 43.9 | 13.7 | 34.6 | 122.1 | (56) | 7/8 (22) | 15/8 (41) | 1,906 (867) |
| H-0200-D | 20 | 2 | 4VE-10 | 2 | 19000 | 285.0 | 257.0 | 234.0 | 212.0 | 189.6 | 169.0 | 152.1 | 134.7 | 38.5 | 97.2 | 19.2 | 48.6 | 15.4 | 38.5 | 122.1 | (56) | 7/8 (22) | 15/8 (41) | 2,194 (997) |
| H-0240-D | 24 | 2 | 4TE-12 | 2 | 22750 | 340.0 | 310.0 | 279.0 | 253.0 | 227.0 | 205.0 | 182.3 | 163.7 | 42.3 | 109.6 | 21.2 | 55.1 | 16.9 | 43.7 | 156.2 | (71) | 11/8 (29) | 21/8 (54) | 2,233 (1,015) |
| H-0300-D | 30 | 2 | 4PE-15 | 2 | 26500 | 387.0 | 352.0 | 320.0 | 290.0 | 259.0 | 230.0 | 207.0 | 183.1 | 48.7 | 127.8 | 24.4 | 64.3 | 19.6 | 51.6 | 156.2 | (71) | 11/8 (29) | 21/8 (54) | 2,280 (1,036) |
| H-0350-D* | 40 | 2 | 4NE-20 | 2 | 37000 | 469.0 | 423.0 | 385.0 | 349.0 | 313.0 | 279.0 | 249.0 | 223.0 | 57.7 | 151.4 | 28.8 | 75.8 | 23.6 | 61.9 | 188.6 | (86) | 11/8 (29) | 21/8 (54) | 2,361 (1,073) |
| H-0400-D* | 44 | 2 | 4JE-22 | 2 | 37000 | 508.0 | 464.0 | 419.0 | 381.0 | 346.0 | 310.0 | 277.0 | 246.0 | 61.5 | 160.0 | 30.8 | 80.3 | 26.3 | 68.0 | 221.7 | (101) | 11/8 (29) | 21/8 (54) | 2,525 (1,148) |

"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 | | | | | |
|-----------|------|------------|--------|--|--------|--------|--------|-------|-------|-------|-------|-------|----------------------|-------|-----------|------------|-----------|------------|-----------------|------------|--------------------------|-------------|-----------|---------------|
| | | | | QTY | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT |
| SIZE | UNIT | HP | MODEL | | CFM | | -1.1°C | -7°C | -10°C | -15°C | -18°C | -23°C | -26°C | -29°C | LB | IN (mm) | IN (mm) | LB | (KG) | | | | | |
| M-0150-D | 12 | 2 | 4CE-6 | 2 | 19000 | 202.0 | 164.0 | 148.0 | 115.6 | 102.2 | 78.8 | 68.7 | 59.6 | 25.0 | 66.9 | 14.2 | 38.4 | 11.2 | 29.0 | 101.5 | (46) | 7/8 (22) | 15/8 (42) | 1,917 (872) |
| M-0160-D | 14 | 2 | 4VE-7 | 2 | 19000 | 209.0 | 168.7 | 151.8 | 118.7 | 104.3 | 78.2 | 68.5 | 57.9 | 24.4 | 65.5 | 12.2 | 33.9 | 9.6 | 25.4 | 122.1 | (56) | 7/8 (22) | 15/8 (42) | 2,136 (971) |
| M-0180-D | 18 | 2 | 4TE-9 | 2 | 19000 | 245.0 | 200.0 | 178.3 | 141.5 | 124.6 | 95.2 | 82.5 | 71.1 | 28.2 | 74.1 | 14.1 | 38.1 | 12.2 | 31.3 | 122.1 | (56) | 7/8 (22) | 15/8 (42) | 2,263 (1,029) |
| M-0240-D | 24 | 2 | 4PE-12 | 2 | 22750 | 281.0 | 229.0 | 203.0 | 160.2 | 140.5 | 107.9 | 93.1 | 79.7 | 34.6 | 92.3 | 17.3 | 47.3 | 14.4 | 38.1 | 156.2 | (71) | 11/8 (28) | 15/8 (42) | 2,301 (1,046) |
| M-0280-D | 28 | 2 | 4NE-14 | 2 | 26500 | 329.0 | 270.0 | 240.0 | 190.2 | 169.5 | 129.5 | 112.3 | 96.7 | 39.7 | 107.5 | 19.9 | 55.2 | 15.9 | 43.3 | 156.2 | (71) | 11/8 (28) | 21/8 (52) | 2,322 (1,055) |
| M-0320-D* | 30 | 2 | 4JE-15 | 2 | 37000 | 402.0 | 317.0 | 284.0 | 225.0 | 198.8 | 153.4 | 133.7 | 115.7 | 50.0 | 134.1 | 25.0 | 68.3 | 20.0 | 53.8 | 188.6 | (86) | 11/8 (28) | 21/8 (52) | 2,629 (1,195) |
| M-0360-D* | 36 | 2 | 4HE-18 | 2 | 37000 | 434.0 | 359.0 | 325.0 | 258.0 | 231.0 | 179.2 | 156.5 | 135.9 | 54.1 | 143.3 | 27.1 | 73.0 | 21.7 | 57.6 | 221.7 | (101) | 11/8 (28) | 21/8 (52) | 2,549 (1,159) |

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

| MODEL | | COMPRESSOR | FAN | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | |
|-----------|------|------------|--------|--|--------|--------|-------|-------|-------|-------|-------|-------|----------------------|-------|-----------|------------|-----------|------------|-----------------|------------|--------------------------|-------------|-----------|---------------|
| | | | | QTY | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT |
| SIZE | UNIT | HP | MODEL | | CFM | | -12°C | -15°C | -18°C | -23°C | -26°C | -29°C | -35°C | -40°C | LB | IN (mm) | IN (mm) | LB | (KG) | | | | | |
| L-0280-D | 28 | 2 | 4NE-14 | 2 | 19000 | 205.0 | 182.9 | 160.7 | 124.1 | 109.0 | 93.8 | 67.9 | 46.4 | 39.7 | 99.9 | 19.9 | 50.2 | 15.9 | 39.6 | 122.1 | (56) | 11/8 (28) | 21/8 (52) | 2,128 (967) |
| L-0300-D | 30 | 2 | 4JE-15 | 2 | 19000 | 232.0 | 209.0 | 184.1 | 143.4 | 126.4 | 109.2 | 80.7 | 56.3 | 50.0 | 123.1 | 25.0 | 61.7 | 20.0 | 48.8 | 156.2 | (71) | 11/8 (28) | 21/8 (52) | 2,431 (1,105) |
| L-0360-D | 36 | 2 | 4HE-18 | 2 | 22750 | 269.0 | 242.0 | 217.0 | 169.9 | 150.3 | 130.3 | 95.7 | 66.4 | 54.1 | 136.1 | 27.1 | 68.4 | 21.7 | 54.5 | 156.2 | (71) | 11/8 (28) | 21/8 (52) | 2,449 (1,113) |
| L-0460-D | 46 | 2 | 4GE-23 | 2 | 26500 | 313.0 | 278.0 | 250.0 | 196.8 | 176.9 | 154.0 | 114.4 | 82.0 | 57.7 | 148.0 | 28.8 | 74.2 | 23.1 | 59.5 | 188.6 | (86) | 11/8 (28) | 21/8 (52) | 2,516 (1,144) |
| L-0500-D | 50 | 2 | 6JE-25 | 2 | 26500 | 333.0 | 299.0 | 267.0 | 210.0 | 182.8 | 160.2 | 118.7 | 83.1 | 71.0 | 178.0 | 35.5 | 89.3 | 28.4 | 71.4 | 188.6 | (86) | 11/8 (28) | 21/8 (52) | 2,614 (1,188) |
| L-0540-D* | 54 | 2 | 4FE-28 | 2 | 37000 | 376.0 | 340.0 | 302.0 | 238.0 | 212.0 | 184.3 | 136.9 | 98.0 | 76.9 | 194.6 | 38.5 | 97.6 | 30.8 | 78.1 | 221.7 | (101) | 11/8 (28) | 25/8 (67) | 2,573 (1,170) |
| L-0650-D* | 56 | 2 | 6HE-28 | 2 | 37000 | 396.0 | 356.0 | 315.0 | 250.0 | 218.0 | 191.9 | 141.2 | 100.0 | 77.6 | 196.2 | 38.8 | 98.3 | 31.0 | 78.6 | 221.7 | (101) | 13/8 (35) | 25/8 (67) | 2,699 (1,227) |

"X" EXTRA LOW, 2-STAGE: -15°F (-26°C) TO -60°F (-51°C) SST

| MODEL | | COMPRESSOR | FAN | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | |
|-------|------|------------|-------|--|--------|--------|-------|-------|-------|-------|-------|-------|----------------------|-------|-----------|------------|-----------|------------|-----------------|------------|--------------------------|-------------|--|---------------|
| | | | | QTY | BITZER | ACTYPE | -15°F | -20°F | -25°F | -30°F | -35°F | -40°F | -50°F | -60°F | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | LIQUID RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT |
| SIZE | UNIT | HP | MODEL | | CFM | | -26°C | -29°C | -32°C | -35°C | -37°C | -40°C | -46°C | -51°C | LB | IN (mm) | IN (mm) | LB | (KG) | | | | | |

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 / R-507A** | | | | | | | | 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 | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | LIQUID RECEIVER CAPACITY | CONNECTIONS | | APROX. 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 | LB (KG) | IN (mm) | LB (KG) | IN (mm) | IN (mm) | LB (KG) | LIQUID | SUCTION | IN (mm) | IN (mm) | |
| H-0160-T | 15 | 3 | 4FE-5 | 2 | 19000 | 227.0 | 206.0 | 188.5 | 170.0 | 153.0 | 137.2 | 122.7 | 109.4 | 24.2 | 89.3 | 13.1 | 48.0 | 8.7 | 30.6 | 101.5 (46) | 7/8 (22) | 1 5/8 (41) | 2,277 (1,035) | | | |
| H-0200-T | 18 | 3 | 4EE-6 | 2 | 19000 | 275.0 | 251.0 | 230.0 | 207.0 | 185.8 | 166.5 | 150.4 | 133.9 | 28.1 | 101.9 | 13.4 | 49.0 | 9.4 | 34.4 | 122.1 (56) | 7/8 (22) | 1 5/8 (41) | 2,297 (1,044) | | | |
| H-0230-T | 21 | 3 | 4DE-7 | 2 | 22750 | 332.0 | 300.0 | 274.0 | 247.0 | 224.0 | 201.0 | 179.8 | 162.0 | 31.0 | 115.2 | 15.3 | 57.1 | 11.0 | 41.4 | 156.2 (71) | 11/8 (29) | 2 1/8 (54) | 2,441 (1,110) | | | |
| H-0270-T | 27 | 3 | 4CE-9 | 2 | 26500 | 397.0 | 362.0 | 326.0 | 297.0 | 266.0 | 241.0 | 215.0 | 191.1 | 34.2 | 129.4 | 17.1 | 65.0 | 13.7 | 52.0 | 156.2 (71) | 11/8 (29) | 2 1/8 (54) | 2,456 (1,116) | | | |
| H-0300-T | 30 | 3 | 4VE-10 | 2 | 37000 | 432.0 | 394.0 | 354.0 | 321.0 | 288.0 | 260.0 | 231.0 | 205.0 | 38.5 | 146.7 | 19.2 | 73.4 | 15.4 | 58.9 | 188.6 (86) | 11/8 (29) | 2 1/8 (54) | 2,838 (1,290) | | | |
| H-0360-T | 36 | 3 | 4TE-12 | 2 | 37000 | 504.0 | 460.0 | 414.0 | 376.0 | 336.0 | 304.0 | 270.0 | 243.0 | 42.3 | 159.1 | 21.2 | 79.9 | 16.9 | 63.7 | 221.7 (101) | 11/8 (29) | 2 1/8 (54) | 2,857 (1,299) | | | |

"M" MEDIUM: +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 / R-507A** | | | | | | | | 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 | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | LIQUID RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | | |
| | UNIT | HP | | | | MODEL | CFM | -1.1°C | -7°C | -10°C | -15°C | -18°C | -23°C | -26°C | -29°C | -35°C | LB (KG) | IN (mm) | LB (KG) | IN (mm) | IN (mm) | LB (KG) | LIQUID | SUCTION | IN (mm) | IN (mm) |
| M-0160-T | 12 | 3 | 4EE-4 | 2 | 19000 | 209.0 | 168.5 | 150.7 | 120.7 | 106.8 | 81.6 | 70.4 | 61.9 | 20.1 | 75.9 | 9.2 | 35.3 | 7.4 | 27.9 | 101.5 (46) | 7/8 (22) | 1 5/8 (42) | 2,257 (1,026) | | | |
| M-0180-T | 15 | 3 | 4DE-5 | 2 | 19000 | 241.0 | 196.6 | 175.7 | 140.6 | 124.4 | 96.2 | 84.0 | 73.0 | 20.6 | 77.6 | 10.8 | 40.5 | 9.0 | 33.1 | 122.1 (56) | 7/8 (22) | 1 5/8 (42) | 2,290 (1,041) | | | |
| M-0220-T | 18 | 3 | 4CE-6 | 2 | 22750 | 290.0 | 235.0 | 212.0 | 167.4 | 147.8 | 115.2 | 100.4 | 87.0 | 25.0 | 95.7 | 14.2 | 53.6 | 11.2 | 43.9 | 156.2 (71) | 11/8 (28) | 2 1/8 (42) | 2,366 (1,076) | | | |
| M-0230-T | 21 | 3 | 4VE-7 | 2 | 26500 | 306.0 | 247.0 | 222.0 | 173.5 | 154.4 | 117.3 | 101.3 | 86.8 | 24.4 | 97.5 | 12.2 | 49.1 | 9.6 | 36.9 | 156.2 (71) | 11/8 (28) | 2 1/8 (52) | 2,699 (1,227) | | | |
| M-0280-T | 27 | 3 | 4TE-9 | 2 | 37000 | 354.0 | 290.0 | 261.0 | 207.0 | 182.1 | 140.8 | 122.0 | 105.1 | 28.2 | 113.3 | 14.1 | 54.8 | 12.2 | 48.5 | 188.6 (86) | 11/8 (28) | 2 1/8 (52) | 2,797 (1,272) | | | |
| M-0360-T | 36 | 3 | 4PE-12 | 2 | 37000 | 421.0 | 339.0 | 305.0 | 237.0 | 211.0 | 159.5 | 137.5 | 117.7 | 34.6 | 132.9 | 17.3 | 65.2 | 14.4 | 55.6 | 221.7 (101) | 11/8 (28) | 2 1/8 (52) | 2,955 (1,343) | | | |

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

| TRIPLE COMPRESSORS | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-404A / R-507A** | | | | | | | | 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 | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | LIQUID RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | | |
| | UNIT | HP | | | | MODEL | CFM | -12°C | -15°C | -18°C | -23°C | -26°C | -29°C | -35°C | -40°C | LB (KG) | IN (mm) | LB (KG) | IN (mm) | IN (mm) | LB (KG) | LIQUID | SUCTION | IN (mm) | IN (mm) | |
| L-0200-T | 18 | 3 | 4CE-6 | 2 | 19000 | 184.5 | 165.4 | 146.0 | 112.3 | 99.1 | 85.8 | 62.1 | 43.2 | 25.0 | 91.9 | 14.2 | 51.6 | 11.2 | 40.2 | 101.5 (46) | 7/8 (28) | 2 1/8 (52) | 2,392 (1,087) | | | |
| L-0260-T | 21 | 3 | 4VE-7 | 2 | 19000 | 189.4 | 166.8 | 148.3 | 113.9 | 98.3 | 84.2 | 60.0 | 39.2 | 24.4 | 89.9 | 12.2 | 45.1 | 9.6 | 35.0 | 101.5 (46) | 7/8 (28) | 2 1/8 (52) | 2,692 (1,224) | | | |
| L-0300-T | 27 | 3 | 4TE-9 | 2 | 22750 | 228.0 | 204.0 | 179.7 | 138.9 | 120.3 | 103.5 | 74.8 | 51.0 | 28.2 | 106.1 | 14.1 | 53.2 | 12.2 | 45.3 | 156.2 (71) | 11/8 (28) | 2 1/8 (52) | 2,809 (1,277) | | | |
| L-0350-T | 36 | 3 | 4PE-12 | 2 | 22750 | 252.0 | 224.0 | 199.3 | 152.5 | 131.2 | 112.1 | 81.0 | 53.8 | 34.6 | 126.9 | 17.3 | 63.6 | 14.4 | 52.5 | 156.2 (71) | 11/8 (28) | 2 1/8 (52) | 2,876 (1,307) | | | |
| L-0420-T | 42 | 3 | 4NE-14 | 2 | 26500 | 299.0 | 267.0 | 235.0 | 183.5 | 158.8 | 138.6 | 100.2 | 69.6 | 39.7 | 147.2 | 19.9 | 74.1 | 15.9 | 59.2 | 188.6 (86) | 11/8 (28) | 2 1/8 (52) | 2,882 (1,310) | | | |
| L-0500-T | 45 | 3 | 4JE-15Y | 2 | 37000 | 335.0 | 301.0 | 269.0 | 212.0 | 184.2 | 161.3 | 117.1 | 81.3 | 50.0 | 184.1 | 25.0 | 92.3 | 20.0 | 73.8 | 188.6 (86) | 11/8 (35) | 2 5/8 (67) | 3,296 (1,498) | | | |
| L-0560-T | 56 | 3 | 4HE-18Y | 2 | 37000 | 404.0 | 363.0 | 321.0 | 255.0 | 222.0 | 195.4 | 143.6 | 101.4 | 54.1 | 197.4 | 27.1 | 99.1 | 21.7 | 79.3 | 268 (122) | 13/8 (35) | 2 5/8 (67) | 3,240 (1,473) | | | |

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

**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 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 | | | | | | | |
|-----------|------|------------|---------|--|--------|--------|--------|--------|--------|--------|--------|-------|----------------------|-------|--------------|---------------|--------------|---------------|-----------------|---------------|--------------------------------|-------------|------|------------------|------|-------------|
| | | | | QTY | BITZER | ACTYPE | +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 Receiver Capacity | Connections | | Aprox. Weight | | |
| SIZE | 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 | | | | | | | |
|-----------|------|------------|---------|--|--------|--------|-------|-------|-------|-------|-------|-------|----------------------|-------|--------------|---------------|--------------|---------------|-----------------|---------------|--------------------------------|-------------|------|------------------|------|-------------|
| | | | | QTY | BITZER | ACTYPE | +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 Receiver Capacity | Connections | | Aprox. Weight | | |
| SIZE | UNIT | HP | MODEL | CFM | -1.1°C | -7°C | -10°C | -15°C | -18°C | -23°C | -26°C | -29°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 | | | | | | | |
|----------|------|------------|---------|--|--------|--------|-------|-------|-------|-------|-------|-------|----------------------|-------|--------------|---------------|--------------|---------------|-----------------|---------------|--------------------------------|-------------|------|------------------|------|-------------|
| | | | | QTY | BITZER | ACTYPE | +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 Receiver Capacity | Connections | | Aprox. Weight | | |
| SIZE | 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.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.

| DUAL COMPRESSORS | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|------------------|-------|-----|------------|--------|-------|-------|---|--------|--------|--------|--------|--------|--------|-------|----------------------|------------|-----------|------------|-----------|------------|--------------------------|-------------|--------|---------|------|-------|---------------|
| | SIZE | QTY | BITZER | ACTYPE | QTY | CFM | +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 Receiver Capacity | Connections | Liquid | Suction | | | |
| | | | | | | | +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) | IN | (mm) | IN | (mm) | |
| | | | | | | | +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 Receiver Capacity | Connections | Liquid | Suction | LB | (KG) | |
| H-0160-D | 14 | 2 | 4DE-7 | 2 | 19000 | 220.0 | 199.4 | 178.8 | 161.3 | 145.2 | 129.0 | 113.2 | 99.8 | 31.0 | 80.4 | 15.3 | 39.8 | 11.0 | 28.6 | 111 | (51) | 7/8 | (22) | 1 5/8 | (41) | 1,877 | (853) |
| H-0180-D | 18 | 2 | 4CE-9 | 2 | 19000 | 263.0 | 239.0 | 214.0 | 193.4 | 172.5 | 154.9 | 137.3 | 121.3 | 34.2 | 87.6 | 17.1 | 43.9 | 13.7 | 34.6 | 134 | (61) | 7/8 | (22) | 1 5/8 | (41) | 1,906 | (867) |
| H-0200-D | 20 | 2 | 4VE-10 | 2 | 19000 | 272.0 | 246.0 | 222.0 | 198.4 | 178.3 | 158.0 | 142.4 | 125.2 | 38.5 | 97.2 | 19.2 | 48.6 | 15.4 | 38.5 | 134 | (61) | 7/8 | (22) | 1 5/8 | (41) | 2,194 | (997) |
| H-0240-D | 24 | 2 | 4TE-12 | 2 | 22750 | 327.0 | 297.0 | 269.0 | 240.0 | 216.0 | 193.9 | 171.7 | 152.9 | 42.3 | 109.6 | 21.2 | 55.1 | 16.9 | 43.7 | 171 | (78) | 11 1/8 | (29) | 2 1/8 | (54) | 2,233 | (1,015) |
| H-0300-D | 30 | 2 | 4PE-15 | 2 | 26500 | 373.0 | 341.0 | 305.0 | 274.0 | 246.0 | 218.0 | 194.7 | 172.9 | 48.7 | 127.8 | 24.4 | 64.3 | 19.6 | 51.6 | 171 | (78) | 11 1/8 | (29) | 2 1/8 | (54) | 2,280 | (1,036) |
| H-0350-D* | 40 | 2 | 4NE-20 | 2 | 33000 | 447.0 | 405.0 | 366.0 | 327.0 | 294.0 | 261.0 | 233.0 | 206.0 | 57.7 | 151.4 | 28.8 | 75.8 | 23.6 | 61.9 | 207 | (94) | 11 1/8 | (29) | 2 1/8 | (54) | 2,361 | (1,073) |
| H-0400-D* | 44 | 2 | 4JE-22 | 2 | 37000 | 485.0 | 439.0 | 405.0 | 359.0 | 322.0 | 286.0 | 255.0 | 227.0 | 61.5 | 160.0 | 30.8 | 80.3 | 26.3 | 68.0 | 243 | (111) | 11 1/8 | (29) | 2 1/8 | (54) | 2,525 | (1,148) |

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

| DUAL COMPRESSORS | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|------------------|-------|-----|------------|--------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|----------------------|------------|-----------|------------|-----------|------------|--------------------------|-------------|--------|---------|------|-------|---------------|
| | SIZE | QTY | BITZER | ACTYPE | QTY | CFM | +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 Receiver Capacity | Connections | Liquid | Suction | | | |
| | | | | | | | -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) | IN | (mm) | IN | (mm) | |
| | | | | | | | +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 Receiver Capacity | Connections | Liquid | Suction | LB | (KG) | |
| M-0150-D | 12 | 2 | 4CE-6 | 2 | 19000 | 193.4 | 153.5 | 137.3 | 106.7 | 93.4 | 70.4 | 60.6 | 51.1 | 25.0 | 66.9 | 14.2 | 38.4 | 11.2 | 29.0 | 111 | (51) | 7/8 | (22) | 1 5/8 | (42) | 1,917 | (872) |
| M-0160-D | 14 | 2 | 4VE-7 | 2 | 19000 | 198.4 | 158.0 | 140.9 | 108.2 | 94.0 | 69.5 | 59.0 | 48.8 | 24.4 | 65.5 | 12.2 | 33.9 | 9.6 | 25.4 | 134 | (61) | 7/8 | (22) | 1 5/8 | (42) | 2,136 | (971) |
| M-0180-D | 18 | 2 | 4TE-9 | 2 | 19000 | 236.0 | 188.3 | 168.2 | 131.3 | 114.5 | 86.6 | 74.0 | 62.7 | 28.2 | 74.1 | 14.1 | 38.1 | 12.2 | 31.3 | 134 | (61) | 7/8 | (22) | 1 5/8 | (42) | 2,263 | (1,029) |
| M-0240-D | 24 | 2 | 4PE-12 | 2 | 22750 | 269.0 | 216.0 | 192.6 | 147.7 | 129.8 | 95.8 | 81.3 | 68.2 | 34.6 | 92.3 | 17.3 | 47.3 | 14.4 | 38.1 | 171 | (78) | 1 1/8 | (28) | 1 5/8 | (42) | 2,301 | (1,046) |
| M-0280-D | 28 | 2 | 4NE-14 | 2 | 26500 | 316.0 | 254.0 | 225.0 | 175.0 | 154.1 | 114.8 | 97.9 | 83.8 | 39.7 | 107.5 | 19.9 | 55.2 | 15.9 | 43.3 | 171 | (78) | 1 1/8 | (28) | 2 1/8 | (52) | 2,322 | (1,055) |
| M-0320-D* | 30 | 2 | 4JE-15 | 2 | 33000 | 348.0 | 280.0 | 250.0 | 194.9 | 173.5 | 127.0 | 109.1 | 91.5 | 50.0 | 134.1 | 25.0 | 68.3 | 20.0 | 53.8 | 207 | (94) | 1 1/8 | (28) | 2 1/8 | (52) | 2,629 | (1,195) |
| M-0360-D* | 36 | 2 | 4HE-18 | 2 | 37000 | 418.0 | 335.0 | 300.0 | 234.0 | 207.0 | 154.6 | 131.9 | 111.3 | 54.1 | 143.3 | 27.1 | 73.0 | 21.7 | 57.6 | 243 | (111) | 11 1/8 | (28) | 2 1/8 | (52) | 2,549 | (1,159) |

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

| DUAL COMPRESSORS | MODEL | | COMPRESSOR | | FAN | | EVAPORATION CAPACITY MBH AT 95°F AMBIENT R-407A** | | | | | | | | ELECTRICAL DATA 60HZ | | | | | | MECHANICAL DATA | | | | | | APROX. WEIGHT |
|------------------|-------|-----|------------|--------|-------|-------|---|-------|-------|-------|-------|-------|-------|-------|----------------------|------------|-----------|------------|-----------|------------|--------------------------|-------------|--------|---------|------|-------|---------------|
| | SIZE | QTY | BITZER | ACTYPE | QTY | CFM | +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 Receiver Capacity | Connections | Liquid | Suction | | | |
| | | | | | | | +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 Receiver Capacity | Connections | Liquid | Suction | LB | (KG) | |
| | | | | | | | +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 Receiver Capacity | Connections | Liquid | Suction | LB | (KG) | |
| L-0280-D | 28 | 2 | 4NE-14 | 2 | 19000 | 191.2 | 169.1 | 148.9 | 111.9 | 95.3 | 81.5 | 54.5 | 34.0 | 39.7 | 99.9 | 19.9 | 50.2 | 15.9 | 39.6 | 134 | (61) | 11 1/8 | (28) | 2 1/8 | (52) | 2,128 | (967) |
| L-0300-D | 30 | 2 | 4JE-15 | 2 | 19000 | 211.0 | 186.2 | 163.6 | 123.7 | 104.8 | 88.9 | 64.4 | 41.1 | 50.0 | 123.1 | 25.0 | 61.7 | 20.0 | 48.8 | 171 | (78) | 11 1/8 | (28) | 2 1/8 | (52) | 2,431 | (1,105) |
| L-0360-D | 36 | 2 | 4HE-18 | 2 | 22750 | 251.0 | 222.0 | 195.7 | 147.3 | 127.0 | 106.9 | 77.5 | 50.2 | 54.1 | 136.1 | 27.1 | 68.4 | 21.7 | 54.5 | 171 | (78) | 11 1/8 | (28) | 2 1/8 | (52) | 2,449 | (1,113) |
| L-0460-D | 46 | 2 | 4GE-23 | 2 | 26500 | 294.0 | 261.0 | 231.0 | 175.3 | 151.9 | 129.0 | 91.0 | 60.8 | 57.7 | 148.0 | 28.8 | 74.2 | 23.1 | 59.5 | 207 | (94) | 11 1/8 | (28) | 2 1/8 | (52) | 2,516 | (1,144) |
| L-0500-D | 50 | 2 | 6JE-25 | 2 | 37000 | 309.0 | 273.0 | 240.0 | 180.8 | 155.1 | 129.6 | 94.6 | 61.8 | 71.0 | 178.0 | 35.5 | 89.3 | 28.4 | 71.4 | 207 | (94) | 11 1/8 | (28) | 2 1/8 | (52) | 2,614 | (1,188) |
| L-0540-D* | 54 | 2 | 4FE-28 | 2 | 37000 | 352.0 | 312.0 | 273.0 | 211.0 | 178.3 | 152.7 | 110.8 | 72.8 | 76.9 | 194.6 | 38.5 | 97.6 | 30.8 | 78.1 | 243 | (111) | 11 1/8 | (28) | 2 5/8 | (67) | 2,573 | (1,170) |
| L-0560-D* | 56 | 2 | 6HE-28 | 2 | 37000 | 372.0 | 329.0 | 290.0 | 221.0 | 188.1 | 160.4 | 114.3 | 74.3 | 77.6 | 196.2 | 38.8 | 98.3 | 31.0 | 78.6 | 243 | (111) | 13 1/8 | (35) | 2 5/8 | (67) | 2,699 | (1,227) |

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

**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

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

Compressor MCC: Maximum Continuous Current (MCC) of the compressor(s)

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 | AJO | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. 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) | LB (KG) | | | | | |
| H-0160-T | 15 | 3 | 4FE-5 | 2 | 19000 | 223.0 | 202.0 | 181.5 | 162.4 | 146.3 | 130.1 | 115.3 | 101.8 | 24.2 | 89.3 | 13.1 | 48.0 | 8.7 | 30.6 | 111 | (51) | 7/8 | (22) | 15/8 | (41) | 2,277 (1,035) |
| H-0200-T | 18 | 3 | 4EE-6 | 2 | 19000 | 271.0 | 245.0 | 222.0 | 198.3 | 178.4 | 158.5 | 141.7 | 124.9 | 28.1 | 101.9 | 13.4 | 49.0 | 9.4 | 34.4 | 134 | (61) | 7/8 | (22) | 15/8 | (41) | 2,297 (1,044) |
| H-0230-T | 21 | 3 | 4DE-7 | 2 | 22750 | 319.0 | 289.0 | 259.0 | 233.0 | 208.0 | 186.3 | 164.8 | 146.7 | 31.0 | 115.2 | 15.3 | 57.1 | 11.0 | 41.4 | 171 | (78) | 11/8 | (29) | 21/8 | (54) | 2,441 (1,110) |
| H-0270-T | 27 | 3 | 4CE-9 | 2 | 26500 | 385.0 | 349.0 | 313.0 | 282.0 | 254.0 | 226.0 | 202.0 | 178.4 | 34.2 | 129.4 | 17.1 | 65.0 | 13.7 | 52.0 | 171 | (78) | 11/8 | (29) | 21/8 | (54) | 2,456 (1,116) |
| H-0300-T | 30 | 3 | 4VE-10 | 2 | 37000 | 415.0 | 376.0 | 337.0 | 303.0 | 273.0 | 244.0 | 216.0 | 189.8 | 38.5 | 146.7 | 19.2 | 73.4 | 15.4 | 58.9 | 207 | (94) | 11/8 | (29) | 21/8 | (54) | 2,838 (1,290) |
| H-0360-T | 36 | 3 | 4TE-12 | 2 | 37000 | 487.0 | 441.0 | 399.0 | 360.0 | 321.0 | 288.0 | 258.0 | 227.0 | 42.3 | 159.1 | 21.2 | 79.9 | 16.9 | 63.7 | 243 | (111) | 11/8 | (29) | 21/8 | (54) | 2,857 (1,299) |

"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 | | | | | | | |
|----------|----|------------|--------|---|-------|--------|--------|-------|-------|-------|-------|-------|----------------------|------------|-----------|------------|------------|------------|-----------------|-----------|------------|--------------------------|-------------|------|---------------|---------------|
| | | | | SIZE | AJO | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. WEIGHT | |
| UNIT | HP | MODEL | CFM | -1.1°C | -7°C | -10°C | -15°C | -18°C | -23°C | -26°C | -29°C | -29°C | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | COMP. RLA | SYSTEM MCA | LB (KG) | IN (mm) | IN (mm) | LB (KG) | | | | |
| M-0160-T | 12 | 3 | 4EE-4 | 2 | 19000 | 198.3 | 158.5 | 140.3 | 109.7 | 95.8 | 71.9 | 61.6 | 51.7 | 20.1 | 75.9 | 9.2 | 35.3 | 7.4 | 27.9 | 111 | (51) | 7/8 | (22) | 15/8 | (42) | 2,257 (1,026) |
| M-0180-T | 15 | 3 | 4DE-5 | 2 | 19000 | 227.0 | 182.7 | 163.2 | 126.0 | 111.1 | 83.1 | 71.1 | 60.4 | 20.6 | 77.6 | 10.8 | 40.5 | 9.0 | 33.1 | 134 | (61) | 7/8 | (22) | 15/8 | (42) | 2,290 (1,041) |
| M-0220-T | 18 | 3 | 4CE-6 | 2 | 22750 | 277.0 | 224.0 | 198.2 | 156.8 | 137.1 | 103.2 | 88.7 | 75.7 | 25.0 | 95.7 | 14.2 | 53.6 | 11.2 | 43.9 | 171 | (78) | 11/8 | (28) | 15/8 | (41) | 2,366 (1,076) |
| M-0230-T | 21 | 3 | 4VE-7 | 2 | 26500 | 292.0 | 232.0 | 207.0 | 158.6 | 139.4 | 102.9 | 87.3 | 73.3 | 24.4 | 97.5 | 12.2 | 49.1 | 9.6 | 36.9 | 171 | (78) | 11/8 | (28) | 21/8 | (52) | 2,699 (1,227) |
| M-0280-T | 27 | 3 | 4TE-9 | 2 | 37000 | 344.0 | 277.0 | 247.0 | 192.7 | 169.9 | 126.7 | 109.6 | 92.8 | 28.2 | 113.3 | 14.1 | 54.8 | 12.2 | 48.5 | 207 | (94) | 11/8 | (28) | 21/8 | (52) | 2,797 (1,272) |
| M-0360-T | 36 | 3 | 4PE-12 | 2 | 37000 | 404.0 | 321.0 | 286.0 | 222.0 | 192.3 | 143.8 | 121.9 | 102.3 | 34.6 | 132.9 | 17.3 | 65.2 | 14.4 | 55.6 | 243 | (111) | 11/8 | (28) | 21/8 | (52) | 2,955 (1,343) |

"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 | AJO | BITZER | ACTYPE | +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 RECEIVER CAPACITY | CONNECTIONS | | APROX. 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) | LB (KG) | | | | | |
| L-0200-T | 18 | 3 | 4CE-6 | 2 | 19000 | 165.9 | 153.5 | 134.2 | 102.0 | 87.7 | 74.7 | 52.8 | 34.4 | 25.0 | 91.9 | 14.2 | 51.6 | 11.2 | 40.2 | 111 | (51) | 7/8 | (22) | 15/8 | (42) | 2,392 (1,087) |
| L-0260-T | 21 | 3 | 4VE-7 | 2 | 19000 | 175.6 | 155.0 | 134.4 | 100.2 | 84.9 | 72.2 | 47.9 | 29.1 | 24.4 | 89.9 | 12.2 | 45.1 | 9.6 | 35.0 | 111 | (51) | 7/8 | (22) | 15/8 | (42) | 2,692 (1,224) |
| L-0300-T | 27 | 3 | 4TE-9 | 2 | 22750 | 213.0 | 190.6 | 166.0 | 125.2 | 108.2 | 91.5 | 60.4 | 37.5 | 28.2 | 106.1 | 14.1 | 53.2 | 12.2 | 45.3 | 171 | (78) | 7/8 | (22) | 15/8 | (42) | 2,809 (1,277) |
| L-0350-T | 36 | 3 | 4PE-12 | 2 | 22750 | 237.0 | 209.0 | 183.0 | 136.2 | 116.8 | 97.8 | 64.2 | 38.7 | 34.6 | 126.9 | 17.3 | 63.6 | 14.4 | 52.5 | 171 | (78) | 7/8 | (22) | 21/8 | (42) | 2,876 (1,307) |
| L-0420-T | 42 | 3 | 4NE-14 | 2 | 26500 | 280.0 | 248.0 | 218.0 | 163.6 | 141.1 | 120.6 | 78.7 | 48.6 | 39.7 | 147.2 | 19.9 | 74.1 | 15.9 | 59.2 | 207 | (94) | 11/8 | (28) | 21/8 | (42) | 2,882 (1,310) |
| L-0500-T* | 45 | 3 | 4JE-15Y | 2 | 37000 | 309.0 | 273.0 | 239.0 | 180.8 | 155.1 | 129.6 | 94.9 | 60.3 | 50.0 | 184.1 | 25.0 | 92.3 | 20.0 | 73.8 | 207 | (94) | 11/8 | (28) | 21/8 | (42) | 3,296 (1,498) |
| L-0560-T* | 56 | 3 | 4HE-18Y | 2 | 37000 | 372.0 | 329.0 | 290.0 | 221.0 | 188.0 | 160.4 | 114.3 | 75.3 | 54.1 | 197.4 | 27.1 | 99.1 | 21.7 | 79.3 | 294 | (134) | 11/8 | (28) | 21/8 | (42) | 3,240 (1,473) |

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

** 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.

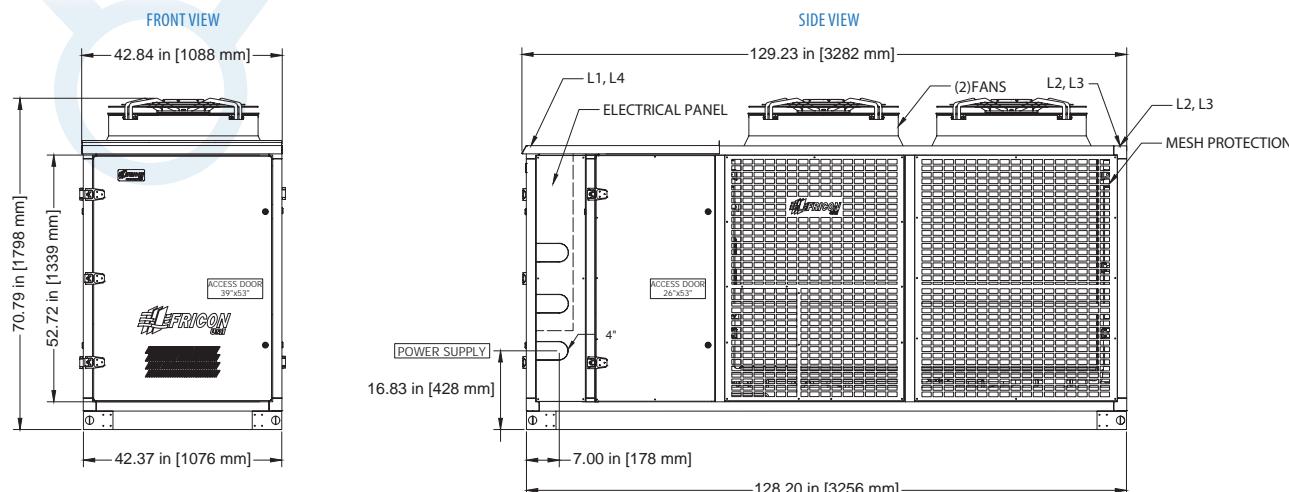
HAOP (High Ambient Operation Package) required for operation above +110°F

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

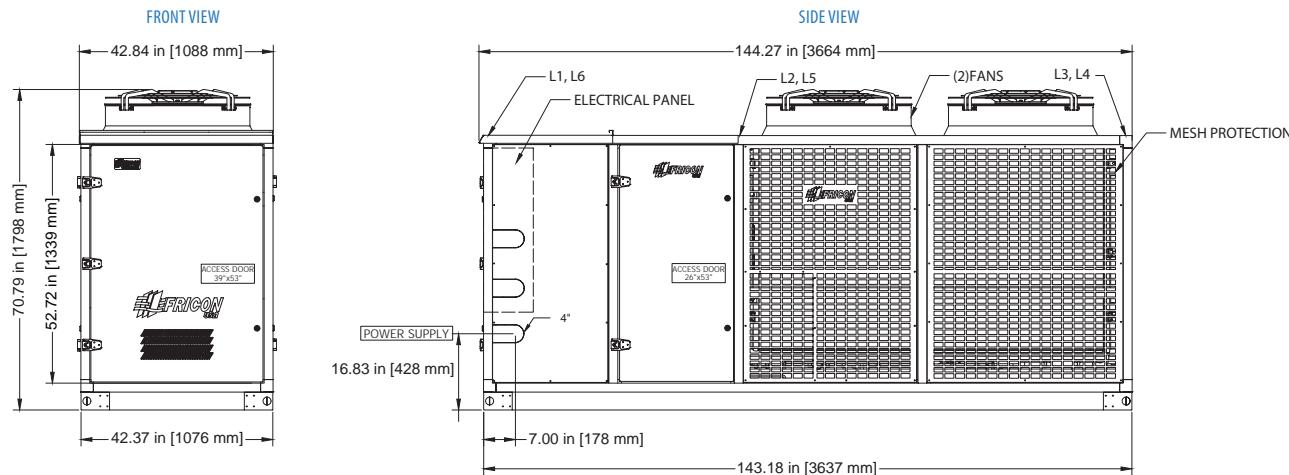
All capacities are calculated at 20°F return gas temperature and dew point values

DRAWINGS

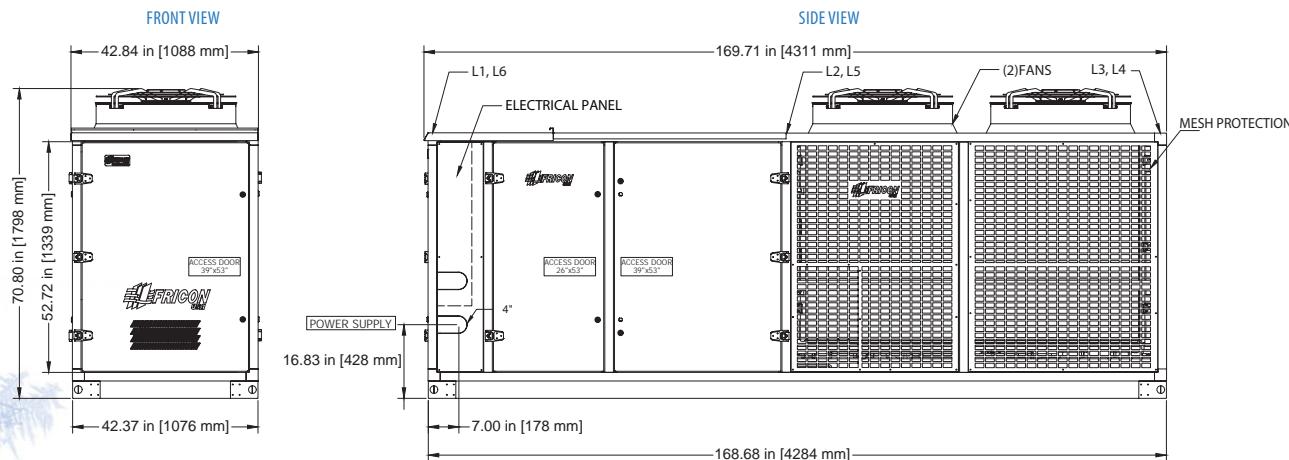
SINGLE COMPRESSOR



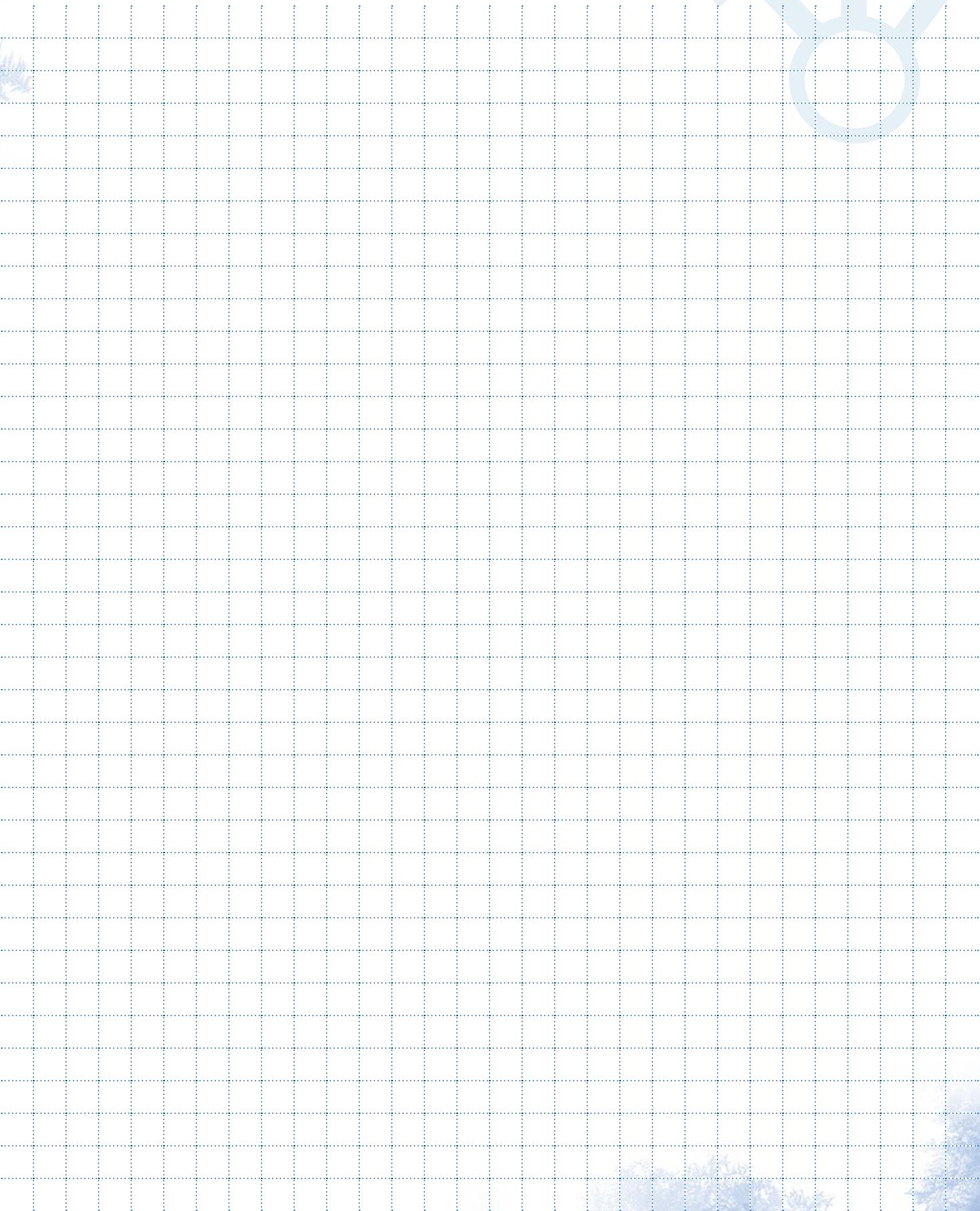
DUAL COMPRESSORS



TRIPLE COMPRESSORS



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



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