

COMPRESSOR DEFINITION

| | |
|---------------------------|-------------------------|
| Designation | FMX A9C |
| Nominal Voltage/Frequency | 230 V 43 -134 Hz |
| Engineering Number | 513908129 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|---|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 230 / 43 -134 | [V / Hz] | |
| 4 Application type | Low-Medium Back Pressure (Fullmotion Compressors) | | |
| 4.1 Evaporating temperature range | -35°C to 0°C | (-31°F to 32°F) | |
| 5 Motor type | BPM | | |
| 6 Starting torque | LST - Low Starting Torque | | |
| 7 Expansion device | Capillary tube | | |
| 8 Compressor cooling | | Operating voltage range | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | - | - | - |
| 8.2 LBP (43°C Ambient temperature) | - | - | - |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing temperature | | | |
| 9.1 Operating | 6.9 | [kgf/cm ²] (98 psig) | / °C - °F |
| 9.2 Peak | 7.8 | [kgf/cm ²] (111 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation | 1/7 | [hp] |
| 2 Displacement | 8.74 | [cm ³] (0.533 cu.in) |
| 2.1 Bore [mm] | 22.500 | |
| 2.2 Stroke [mm] | 22.000 | |
| 3 Lubricant charge | 175 | [ml] (5.92 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 4.8 | [kg] (10.58 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|---|----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 43-134 Hz 3~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | CF02E01 M 0.0 X | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | INVERTER FMX CF02E01 | |
| 6 Start winding resistance | 20.00 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 20.00 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (43 /134 Hz) | 1.70 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (43 /134 Hz) | 1.70 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (43 /134 Hz) | 1.70 | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V1300RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| 212 | 53 | 62 | 37 | 0.31 | 0.67 | 5.81 | 1.46 | 1.70 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V2000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| 334 | 84 | 98 | 54 | 0.44 | 1.05 | 6.14 | 1.55 | 1.80 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V3000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| 495 | 125 | 145 | 82 | 0.65 | 1.55 | 6.07 | 1.53 | 1.78 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|--|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V4000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| 614 | 155 | 180 | 106 | 0.80 | 1.93 | 5.80 | 1.46 | 1.70 | |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|----------------------------------|----------------------------|--------------------|---------|--------------------------------|----------------------------------|--|---------------------------|--------|----------|-----------|
| TEST CONDITIONS: @220V1300RPM | | ASHRAE32 Static | | | | (Condensing temperature 35°C (+95°F)) | | | | |
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -35 | (-31) | 130 | 33 | 38 | 22 | 0.21 | 0.41 | 6.04 | 1.52 | 1.77 |
| -30 | (-22) | 179 | 45 | 52 | 26 | 0.24 | 0.56 | 6.76 | 1.70 | 1.98 |
| -25 | (-13) | 234 | 59 | 69 | 31 | 0.26 | 0.73 | 7.65 | 1.93 | 2.24 |
| -20 | (- 4) | 300 | 76 | 88 | 34 | 0.30 | 0.94 | 8.75 | 2.20 | 2.56 |
| -15 | (+ 5) | 379 | 96 | 111 | 38 | 0.33 | 1.19 | 10.07 | 2.54 | 2.95 |
| -10 | (+14) | 476 | 120 | 139 | 41 | 0.35 | 1.50 | 11.64 | 2.93 | 3.41 |
| -5 | (+23) | 593 | 150 | 174 | 44 | 0.38 | 1.88 | 13.48 | 3.40 | 3.95 |
| 0 | (+32) | 735 | 185 | 216 | 47 | 0.39 | 2.33 | 15.62 | 3.94 | 4.58 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1300RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 117 | 30 | 34 | 22 | 0.22 | 0.37 | 5.30 | 1.34 | 1.55 |
| -30 | (-22) | 165 | 42 | 48 | 28 | 0.25 | 0.52 | 5.88 | 1.48 | 1.72 |
| -25 | (-13) | 219 | 55 | 64 | 33 | 0.28 | 0.69 | 6.57 | 1.65 | 1.92 |
| -20 | (- 4) | 282 | 71 | 83 | 38 | 0.32 | 0.89 | 7.38 | 1.86 | 2.16 |
| -15 | (+ 5) | 358 | 90 | 105 | 43 | 0.36 | 1.13 | 8.36 | 2.11 | 2.45 |
| -10 | (+14) | 449 | 113 | 132 | 47 | 0.41 | 1.42 | 9.51 | 2.40 | 2.79 |
| -5 | (+23) | 561 | 141 | 164 | 52 | 0.44 | 1.78 | 10.86 | 2.74 | 3.18 |
| 0 | (+32) | 697 | 176 | 204 | 56 | 0.47 | 2.21 | 12.43 | 3.13 | 3.64 |

| TEST CONDITIONS: @220V1300RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 102 | 26 | 30 | 22 | 0.22 | 0.32 | 4.55 | 1.15 | 1.33 |
| -30 | (-22) | 149 | 38 | 44 | 29 | 0.25 | 0.47 | 5.07 | 1.28 | 1.49 |
| -25 | (-13) | 201 | 51 | 59 | 36 | 0.29 | 0.63 | 5.63 | 1.42 | 1.65 |
| -20 | (- 4) | 260 | 66 | 76 | 42 | 0.34 | 0.82 | 6.25 | 1.57 | 1.83 |
| -15 | (+ 5) | 332 | 84 | 97 | 48 | 0.39 | 1.04 | 6.95 | 1.75 | 2.04 |
| -10 | (+14) | 418 | 105 | 122 | 54 | 0.44 | 1.32 | 7.76 | 1.96 | 2.27 |
| -5 | (+23) | 523 | 132 | 153 | 60 | 0.49 | 1.66 | 8.70 | 2.19 | 2.55 |
| 0 | (+32) | 651 | 164 | 191 | 66 | 0.54 | 2.06 | 9.79 | 2.47 | 2.87 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 205 | 52 | 60 | 34 | 0.31 | 0.64 | 6.02 | 1.52 | 1.77 |
| -30 | (-22) | 271 | 68 | 80 | 40 | 0.34 | 0.85 | 6.81 | 1.72 | 2.00 |
| -25 | (-13) | 355 | 89 | 104 | 46 | 0.38 | 1.11 | 7.74 | 1.95 | 2.27 |
| -20 | (- 4) | 458 | 115 | 134 | 52 | 0.43 | 1.44 | 8.83 | 2.22 | 2.59 |
| -15 | (+ 5) | 583 | 147 | 171 | 58 | 0.47 | 1.83 | 10.08 | 2.54 | 2.95 |
| -10 | (+14) | 731 | 184 | 214 | 63 | 0.52 | 2.31 | 11.52 | 2.90 | 3.38 |
| -5 | (+23) | 906 | 228 | 266 | 69 | 0.55 | 2.87 | 13.15 | 3.31 | 3.85 |
| 0 | (+32) | 1110 | 280 | 325 | 74 | 0.58 | 3.52 | 15.00 | 3.78 | 4.39 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 183 | 46 | 54 | 35 | 0.31 | 0.57 | 5.27 | 1.33 | 1.55 |
| -30 | (-22) | 250 | 63 | 73 | 42 | 0.35 | 0.78 | 5.98 | 1.51 | 1.75 |
| -25 | (-13) | 333 | 84 | 98 | 49 | 0.40 | 1.04 | 6.77 | 1.71 | 1.98 |
| -20 | (- 4) | 435 | 110 | 127 | 57 | 0.46 | 1.37 | 7.66 | 1.93 | 2.24 |
| -15 | (+ 5) | 557 | 140 | 163 | 64 | 0.52 | 1.75 | 8.65 | 2.18 | 2.53 |
| -10 | (+14) | 702 | 177 | 206 | 72 | 0.58 | 2.21 | 9.77 | 2.46 | 2.86 |
| -5 | (+23) | 872 | 220 | 256 | 79 | 0.63 | 2.76 | 11.02 | 2.78 | 3.23 |
| 0 | (+32) | 1070 | 270 | 314 | 87 | 0.67 | 3.39 | 12.42 | 3.13 | 3.64 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 161 | 41 | 47 | 34 | 0.30 | 0.50 | 4.70 | 1.18 | 1.38 |
| -30 | (-22) | 227 | 57 | 67 | 42 | 0.36 | 0.71 | 5.37 | 1.35 | 1.57 |
| -25 | (-13) | 308 | 78 | 90 | 51 | 0.42 | 0.97 | 6.06 | 1.53 | 1.77 |
| -20 | (- 4) | 406 | 102 | 119 | 60 | 0.49 | 1.28 | 6.78 | 1.71 | 1.99 |
| -15 | (+ 5) | 524 | 132 | 154 | 70 | 0.56 | 1.65 | 7.55 | 1.90 | 2.21 |
| -10 | (+14) | 664 | 167 | 195 | 79 | 0.63 | 2.10 | 8.39 | 2.11 | 2.46 |
| -5 | (+23) | 828 | 209 | 243 | 89 | 0.70 | 2.62 | 9.30 | 2.34 | 2.72 |
| 0 | (+32) | 1019 | 257 | 298 | 99 | 0.75 | 3.23 | 10.30 | 2.59 | 3.02 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 297 | 75 | 87 | 50 | 0.42 | 0.93 | 5.93 | 1.49 | 1.74 |
| -30 | (-22) | 407 | 103 | 119 | 61 | 0.49 | 1.28 | 6.67 | 1.68 | 1.95 |
| -25 | (-13) | 534 | 135 | 156 | 71 | 0.56 | 1.68 | 7.49 | 1.89 | 2.19 |
| -20 | (- 4) | 685 | 173 | 201 | 82 | 0.64 | 2.15 | 8.41 | 2.12 | 2.47 |
| -15 | (+ 5) | 867 | 218 | 254 | 92 | 0.72 | 2.73 | 9.48 | 2.39 | 2.78 |
| -10 | (+14) | 1087 | 274 | 319 | 101 | 0.80 | 3.43 | 10.71 | 2.70 | 3.14 |
| -5 | (+23) | 1353 | 341 | 397 | 111 | 0.87 | 4.28 | 12.13 | 3.06 | 3.55 |
| 0 | (+32) | 1672 | 421 | 490 | 122 | 0.94 | 5.30 | 13.77 | 3.47 | 4.03 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 275 | 69 | 81 | 51 | 0.43 | 0.86 | 5.37 | 1.35 | 1.57 |
| -30 | (-22) | 382 | 96 | 112 | 64 | 0.51 | 1.20 | 6.00 | 1.51 | 1.76 |
| -25 | (-13) | 506 | 128 | 148 | 76 | 0.60 | 1.59 | 6.69 | 1.68 | 1.96 |
| -20 | (- 4) | 653 | 165 | 191 | 87 | 0.69 | 2.05 | 7.46 | 1.88 | 2.19 |
| -15 | (+ 5) | 832 | 210 | 244 | 99 | 0.78 | 2.62 | 8.35 | 2.11 | 2.45 |
| -10 | (+14) | 1048 | 264 | 307 | 111 | 0.88 | 3.31 | 9.39 | 2.37 | 2.75 |
| -5 | (+23) | 1310 | 330 | 384 | 124 | 0.97 | 4.14 | 10.60 | 2.67 | 3.10 |
| 0 | (+32) | 1624 | 409 | 476 | 137 | 1.06 | 5.15 | 12.00 | 3.02 | 3.52 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 250 | 63 | 73 | 51 | 0.41 | 0.78 | 4.95 | 1.25 | 1.45 |
| -30 | (-22) | 351 | 88 | 103 | 64 | 0.50 | 1.10 | 5.47 | 1.38 | 1.60 |
| -25 | (-13) | 468 | 118 | 137 | 78 | 0.60 | 1.47 | 6.03 | 1.52 | 1.77 |
| -20 | (- 4) | 608 | 153 | 178 | 91 | 0.71 | 1.91 | 6.66 | 1.68 | 1.95 |
| -15 | (+ 5) | 779 | 196 | 228 | 105 | 0.82 | 2.45 | 7.38 | 1.86 | 2.16 |
| -10 | (+14) | 987 | 249 | 289 | 120 | 0.93 | 3.12 | 8.22 | 2.07 | 2.41 |
| -5 | (+23) | 1241 | 313 | 364 | 135 | 1.05 | 3.93 | 9.21 | 2.32 | 2.70 |
| 0 | (+32) | 1547 | 390 | 453 | 150 | 1.16 | 4.90 | 10.37 | 2.61 | 3.04 |

| TEST CONDITIONS: @220V4000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 341 | 86 | 100 | 62 | 0.50 | 1.07 | 5.52 | 1.39 | 1.62 |
| -30 | (-22) | 485 | 122 | 142 | 78 | 0.59 | 1.52 | 6.23 | 1.57 | 1.83 |
| -25 | (-13) | 675 | 170 | 198 | 95 | 0.72 | 2.12 | 7.08 | 1.78 | 2.07 |
| -20 | (- 4) | 901 | 227 | 264 | 112 | 0.86 | 2.83 | 8.03 | 2.02 | 2.35 |
| -15 | (+ 5) | 1154 | 291 | 338 | 128 | 1.00 | 3.63 | 9.04 | 2.28 | 2.65 |
| -10 | (+14) | 1425 | 359 | 417 | 142 | 1.12 | 4.49 | 10.08 | 2.54 | 2.95 |
| -5 | (+23) | 1704 | 429 | 499 | 153 | 1.18 | 5.39 | 11.11 | 2.80 | 3.25 |
| 0 | (+32) | 1983 | 500 | 581 | 160 | 1.17 | 6.29 | 12.09 | 3.05 | 3.54 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 326 | 82 | 95 | 66 | 0.53 | 1.02 | 4.96 | 1.25 | 1.45 |
| -30 | (-22) | 453 | 114 | 133 | 82 | 0.61 | 1.42 | 5.54 | 1.40 | 1.62 |
| -25 | (-13) | 627 | 158 | 184 | 100 | 0.74 | 1.97 | 6.25 | 1.58 | 1.83 |
| -20 | (- 4) | 838 | 211 | 246 | 118 | 0.90 | 2.63 | 7.07 | 1.78 | 2.07 |
| -15 | (+ 5) | 1079 | 272 | 316 | 136 | 1.05 | 3.39 | 7.95 | 2.00 | 2.33 |
| -10 | (+14) | 1338 | 337 | 392 | 152 | 1.18 | 4.22 | 8.86 | 2.23 | 2.60 |
| -5 | (+23) | 1608 | 405 | 471 | 165 | 1.26 | 5.08 | 9.77 | 2.46 | 2.86 |
| 0 | (+32) | 1879 | 474 | 551 | 174 | 1.27 | 5.96 | 10.63 | 2.68 | 3.11 |

| TEST CONDITIONS: @220V4000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 299 | 75 | 88 | 70 | 0.57 | 0.94 | 4.30 | 1.08 | 1.26 |
| -30 | (-22) | 413 | 104 | 121 | 87 | 0.65 | 1.29 | 4.82 | 1.22 | 1.41 |
| -25 | (-13) | 575 | 145 | 169 | 105 | 0.78 | 1.81 | 5.49 | 1.38 | 1.61 |
| -20 | (- 4) | 777 | 196 | 228 | 124 | 0.94 | 2.44 | 6.25 | 1.58 | 1.83 |
| -15 | (+ 5) | 1010 | 254 | 296 | 142 | 1.10 | 3.18 | 7.09 | 1.79 | 2.08 |
| -10 | (+14) | 1263 | 318 | 370 | 159 | 1.24 | 3.98 | 7.95 | 2.00 | 2.33 |
| -5 | (+23) | 1528 | 385 | 448 | 174 | 1.34 | 4.83 | 8.80 | 2.22 | 2.58 |
| 0 | (+32) | 1795 | 452 | 526 | 185 | 1.38 | 5.69 | 9.62 | 2.42 | 2.82 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | Universal FMX | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 45° up + 11° to Back | | |
| 3.2 DISCHARGE | 4.2 +0.10/-0.05 | [mm] | (0.165" +0.004"/-0.002") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 45° up + 37° to Back | | |
| 3.3 PROCESS | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.3.1 Material | Copper | | |
| 3.3.2 Shape | Slanted 45° up + 57° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |