

COMPRESSOR DEFINITION

| | |
|---------------------------|-------------------------|
| Designation | FMX Y9C |
| Nominal Voltage/Frequency | 230 V 43 -134 Hz |
| Engineering Number | 513908020 |

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 | 0.2 to 0.3 | [kgf/cm ²] (2.84 to 4.27 psig) |

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) | - | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (43 /134 Hz) | - | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (43 /134 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC - VDE | |

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 | 38 | 0.31 | 0.67 | 5.64 | 1.42 | 1.65 | |

| | | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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 | 57 | 0.46 | 1.05 | 5.83 | 1.47 | 1.71 | |

| | | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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 | 83 | 0.65 | 1.55 | 5.97 | 1.50 | 1.75 | |

| | | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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 | 109 | 0.81 | 1.93 | 5.63 | 1.42 | 1.65 | |

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) | 132 | 33 | 39 | 22 | 0.22 | 0.41 | 5.97 | 1.50 | 1.75 |
| -30 | (-22) | 177 | 45 | 52 | 27 | 0.25 | 0.56 | 6.46 | 1.63 | 1.89 |
| -25 | (-13) | 233 | 59 | 68 | 32 | 0.27 | 0.73 | 7.35 | 1.85 | 2.15 |
| -20 | (- 4) | 301 | 76 | 88 | 35 | 0.31 | 0.94 | 8.55 | 2.16 | 2.51 |
| -15 | (+ 5) | 383 | 96 | 112 | 38 | 0.34 | 1.20 | 10.01 | 2.52 | 2.93 |
| -10 | (+14) | 480 | 121 | 141 | 41 | 0.36 | 1.51 | 11.64 | 2.93 | 3.41 |
| -5 | (+23) | 595 | 150 | 174 | 44 | 0.38 | 1.88 | 13.39 | 3.37 | 3.92 |
| 0 | (+32) | 730 | 184 | 214 | 48 | 0.38 | 2.31 | 15.17 | 3.82 | 4.44 |

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) | 114 | 29 | 33 | 23 | 0.22 | 0.36 | 5.11 | 1.29 | 1.50 |
| -30 | (-22) | 158 | 40 | 46 | 29 | 0.25 | 0.50 | 5.52 | 1.39 | 1.62 |
| -25 | (-13) | 213 | 54 | 62 | 34 | 0.29 | 0.67 | 6.22 | 1.57 | 1.82 |
| -20 | (- 4) | 279 | 70 | 82 | 39 | 0.33 | 0.88 | 7.13 | 1.80 | 2.09 |
| -15 | (+ 5) | 359 | 90 | 105 | 44 | 0.37 | 1.13 | 8.19 | 2.06 | 2.40 |
| -10 | (+14) | 454 | 114 | 133 | 49 | 0.40 | 1.43 | 9.32 | 2.35 | 2.73 |
| -5 | (+23) | 566 | 143 | 166 | 54 | 0.43 | 1.79 | 10.46 | 2.64 | 3.06 |
| 0 | (+32) | 697 | 176 | 204 | 60 | 0.45 | 2.21 | 11.53 | 2.91 | 3.38 |

| 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) | 98 | 25 | 29 | 22 | 0.22 | 0.31 | 4.40 | 1.11 | 1.29 |
| -30 | (-22) | 141 | 36 | 41 | 29 | 0.26 | 0.44 | 4.76 | 1.20 | 1.39 |
| -25 | (-13) | 194 | 49 | 57 | 36 | 0.31 | 0.61 | 5.30 | 1.34 | 1.55 |
| -20 | (- 4) | 258 | 65 | 75 | 43 | 0.36 | 0.81 | 5.96 | 1.50 | 1.74 |
| -15 | (+ 5) | 335 | 84 | 98 | 51 | 0.41 | 1.05 | 6.65 | 1.68 | 1.95 |
| -10 | (+14) | 426 | 107 | 125 | 59 | 0.47 | 1.35 | 7.31 | 1.84 | 2.14 |
| -5 | (+23) | 535 | 135 | 157 | 68 | 0.51 | 1.69 | 7.88 | 1.99 | 2.31 |
| 0 | (+32) | 661 | 167 | 194 | 78 | 0.55 | 2.10 | 8.27 | 2.08 | 2.42 |

| 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) | 197 | 50 | 58 | 34 | 0.31 | 0.62 | 5.71 | 1.44 | 1.67 |
| -30 | (-22) | 265 | 67 | 78 | 42 | 0.36 | 0.83 | 6.34 | 1.60 | 1.86 |
| -25 | (-13) | 350 | 88 | 103 | 48 | 0.40 | 1.10 | 7.33 | 1.85 | 2.15 |
| -20 | (- 4) | 456 | 115 | 134 | 53 | 0.44 | 1.43 | 8.57 | 2.16 | 2.51 |
| -15 | (+ 5) | 584 | 147 | 171 | 59 | 0.48 | 1.84 | 9.94 | 2.51 | 2.91 |
| -10 | (+14) | 736 | 185 | 216 | 65 | 0.53 | 2.32 | 11.33 | 2.86 | 3.32 |
| -5 | (+23) | 913 | 230 | 267 | 72 | 0.59 | 2.89 | 12.63 | 3.18 | 3.70 |
| 0 | (+32) | 1118 | 282 | 328 | 82 | 0.67 | 3.54 | 13.71 | 3.45 | 4.02 |

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) | 178 | 45 | 52 | 35 | 0.31 | 0.56 | 5.09 | 1.28 | 1.49 |
| -30 | (-22) | 244 | 61 | 71 | 44 | 0.37 | 0.76 | 5.58 | 1.41 | 1.63 |
| -25 | (-13) | 327 | 82 | 96 | 51 | 0.42 | 1.03 | 6.40 | 1.61 | 1.88 |
| -20 | (- 4) | 430 | 108 | 126 | 58 | 0.47 | 1.35 | 7.45 | 1.88 | 2.18 |
| -15 | (+ 5) | 555 | 140 | 163 | 65 | 0.52 | 1.75 | 8.60 | 2.17 | 2.52 |
| -10 | (+14) | 703 | 177 | 206 | 72 | 0.58 | 2.22 | 9.75 | 2.46 | 2.86 |
| -5 | (+23) | 877 | 221 | 257 | 81 | 0.66 | 2.77 | 10.76 | 2.71 | 3.15 |
| 0 | (+32) | 1078 | 272 | 316 | 93 | 0.75 | 3.41 | 11.54 | 2.91 | 3.38 |

| 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) | 163 | 41 | 48 | 36 | 0.32 | 0.51 | 4.56 | 1.15 | 1.33 |
| -30 | (-22) | 225 | 57 | 66 | 46 | 0.38 | 0.71 | 4.90 | 1.24 | 1.44 |
| -25 | (-13) | 304 | 77 | 89 | 55 | 0.44 | 0.95 | 5.56 | 1.40 | 1.63 |
| -20 | (- 4) | 403 | 102 | 118 | 63 | 0.50 | 1.27 | 6.42 | 1.62 | 1.88 |
| -15 | (+ 5) | 523 | 132 | 153 | 72 | 0.57 | 1.65 | 7.35 | 1.85 | 2.15 |
| -10 | (+14) | 666 | 168 | 195 | 81 | 0.64 | 2.10 | 8.25 | 2.08 | 2.42 |
| -5 | (+23) | 835 | 210 | 245 | 93 | 0.73 | 2.64 | 8.99 | 2.27 | 2.63 |
| 0 | (+32) | 1030 | 260 | 302 | 106 | 0.84 | 3.27 | 9.47 | 2.39 | 2.77 |

| 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) | 277 | 70 | 81 | 52 | 0.43 | 0.87 | 5.31 | 1.34 | 1.55 |
| -30 | (-22) | 397 | 100 | 116 | 64 | 0.49 | 1.25 | 6.22 | 1.57 | 1.82 |
| -25 | (-13) | 535 | 135 | 157 | 74 | 0.56 | 1.68 | 7.24 | 1.82 | 2.12 |
| -20 | (- 4) | 696 | 175 | 204 | 84 | 0.65 | 2.19 | 8.32 | 2.10 | 2.44 |
| -15 | (+ 5) | 885 | 223 | 259 | 94 | 0.74 | 2.78 | 9.45 | 2.38 | 2.77 |
| -10 | (+14) | 1107 | 279 | 324 | 105 | 0.82 | 3.49 | 10.57 | 2.66 | 3.10 |
| -5 | (+23) | 1368 | 345 | 401 | 117 | 0.88 | 4.33 | 11.65 | 2.94 | 3.41 |
| 0 | (+32) | 1674 | 422 | 490 | 132 | 0.91 | 5.31 | 12.67 | 3.19 | 3.71 |

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) | 245 | 62 | 72 | 53 | 0.42 | 0.77 | 4.66 | 1.17 | 1.37 |
| -30 | (-22) | 361 | 91 | 106 | 65 | 0.49 | 1.13 | 5.47 | 1.38 | 1.60 |
| -25 | (-13) | 494 | 124 | 145 | 77 | 0.58 | 1.55 | 6.39 | 1.61 | 1.87 |
| -20 | (- 4) | 649 | 164 | 190 | 88 | 0.68 | 2.04 | 7.39 | 1.86 | 2.16 |
| -15 | (+ 5) | 832 | 210 | 244 | 99 | 0.79 | 2.62 | 8.42 | 2.12 | 2.47 |
| -10 | (+14) | 1049 | 264 | 307 | 111 | 0.88 | 3.31 | 9.45 | 2.38 | 2.77 |
| -5 | (+23) | 1304 | 329 | 382 | 125 | 0.96 | 4.12 | 10.45 | 2.63 | 3.06 |
| 0 | (+32) | 1604 | 404 | 470 | 141 | 1.02 | 5.09 | 11.38 | 2.87 | 3.33 |

| 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) | 223 | 56 | 65 | 52 | 0.42 | 0.70 | 4.27 | 1.08 | 1.25 |
| -30 | (-22) | 332 | 84 | 97 | 67 | 0.50 | 1.04 | 4.91 | 1.24 | 1.44 |
| -25 | (-13) | 458 | 115 | 134 | 81 | 0.61 | 1.44 | 5.66 | 1.43 | 1.66 |
| -20 | (- 4) | 606 | 153 | 178 | 93 | 0.72 | 1.91 | 6.49 | 1.63 | 1.90 |
| -15 | (+ 5) | 782 | 197 | 229 | 107 | 0.84 | 2.46 | 7.35 | 1.85 | 2.15 |
| -10 | (+14) | 991 | 250 | 290 | 121 | 0.96 | 3.13 | 8.23 | 2.07 | 2.41 |
| -5 | (+23) | 1239 | 312 | 363 | 137 | 1.06 | 3.92 | 9.07 | 2.28 | 2.66 |
| 0 | (+32) | 1530 | 386 | 448 | 155 | 1.13 | 4.85 | 9.84 | 2.48 | 2.88 |

| 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) | 330 | 83 | 97 | 64 | 0.50 | 1.03 | 5.13 | 1.29 | 1.50 |
| -30 | (-22) | 481 | 121 | 141 | 82 | 0.64 | 1.51 | 5.90 | 1.49 | 1.73 |
| -25 | (-13) | 676 | 170 | 198 | 100 | 0.78 | 2.12 | 6.73 | 1.70 | 1.97 |
| -20 | (- 4) | 905 | 228 | 265 | 119 | 0.93 | 2.84 | 7.63 | 1.92 | 2.24 |
| -15 | (+ 5) | 1156 | 291 | 339 | 135 | 1.05 | 3.64 | 8.58 | 2.16 | 2.51 |
| -10 | (+14) | 1420 | 358 | 416 | 149 | 1.14 | 4.48 | 9.59 | 2.42 | 2.81 |
| -5 | (+23) | 1687 | 425 | 494 | 158 | 1.18 | 5.33 | 10.65 | 2.68 | 3.12 |
| 0 | (+32) | 1945 | 490 | 570 | 161 | 1.16 | 6.17 | 11.77 | 2.97 | 3.45 |

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) | 301 | 76 | 88 | 66 | 0.51 | 0.94 | 4.58 | 1.15 | 1.34 |
| -30 | (-22) | 438 | 110 | 128 | 83 | 0.64 | 1.37 | 5.30 | 1.33 | 1.55 |
| -25 | (-13) | 622 | 157 | 182 | 102 | 0.79 | 1.95 | 6.08 | 1.53 | 1.78 |
| -20 | (- 4) | 843 | 212 | 247 | 121 | 0.94 | 2.65 | 6.91 | 1.74 | 2.03 |
| -15 | (+ 5) | 1090 | 275 | 319 | 139 | 1.08 | 3.43 | 7.81 | 1.97 | 2.29 |
| -10 | (+14) | 1353 | 341 | 396 | 155 | 1.20 | 4.27 | 8.76 | 2.21 | 2.57 |
| -5 | (+23) | 1621 | 409 | 475 | 166 | 1.28 | 5.13 | 9.77 | 2.46 | 2.86 |
| 0 | (+32) | 1885 | 475 | 552 | 172 | 1.31 | 5.98 | 10.83 | 2.73 | 3.17 |

| 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) | 277 | 70 | 81 | 68 | 0.54 | 0.87 | 4.10 | 1.03 | 1.20 |
| -30 | (-22) | 397 | 100 | 116 | 85 | 0.66 | 1.24 | 4.75 | 1.20 | 1.39 |
| -25 | (-13) | 567 | 143 | 166 | 104 | 0.80 | 1.78 | 5.47 | 1.38 | 1.60 |
| -20 | (- 4) | 777 | 196 | 228 | 124 | 0.96 | 2.44 | 6.24 | 1.57 | 1.83 |
| -15 | (+ 5) | 1017 | 256 | 298 | 143 | 1.12 | 3.20 | 7.06 | 1.78 | 2.07 |
| -10 | (+14) | 1276 | 322 | 374 | 161 | 1.26 | 4.03 | 7.95 | 2.00 | 2.33 |
| -5 | (+23) | 1544 | 389 | 452 | 174 | 1.37 | 4.88 | 8.89 | 2.24 | 2.60 |
| 0 | (+32) | 1811 | 456 | 531 | 182 | 1.44 | 5.74 | 9.88 | 2.49 | 2.89 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard 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 + 45° to Back | | |
| 3.2 DISCHARGE | 4.9 +0.10/-0.05 | [mm] | (0.193" +0.004"/-0.002") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 0° up + 24° 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 + 49° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |