

### COMPRESSOR DEFINITION

|                           |                  |
|---------------------------|------------------|
| Designation               | FMX Y9C          |
| Nominal Voltage/Frequency | 230 V 43 -134 Hz |
| Engineering Number        | 513908191        |

### 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 <sup>2</sup> ] (98 psig)  | / °C - °F |
| 9.2 Peak                           | 7.8   | [kgf/cm <sup>2</sup> ] (111 psig) | / °C - °F |
| 10 Maximum winding temperature     | 130   | [ °C ]                            |           |

### B - MECHANICAL DATA

|                               |                |                                  |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation      | 1/7            | [hp]                             |
| 2 Displacement                | 8.74           | [cm <sup>3</sup> ] (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 <sup>2</sup> ]           |

### 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                           | CF02D01 M 0.0 X                  |                                    |
| 3 Start capacitor                             | -                                | [µF(VAC minimum)]                  |
| 4 Run capacitor                               | -                                | [µF(VAC minimum)]                  |
| 5 Motor protection                            | INVERTER CF02D01 M 0             |                                    |
| 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              | VDE                              |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|   |          |     |                                     |                               |   |                           |  |       |  |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| TEST CONDITIONS:<br><b>@220V1300RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) |                           | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°F)</b> |       |  |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%         | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 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:<br><b>@220V2000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) |                           | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°F)</b> |       |  |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%         | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 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:<br><b>@220V3000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) |                           | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°F)</b> |       |  |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%         | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 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:<br><b>@220V4000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) |                           | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°F)</b> |       |  |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%         | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 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:<br><b>@220V1300RPM</b> |                            | <b>ASHRAE32</b><br><b>Static</b> |         |                             |                               | (Condensing temperature <b>35°C (+95°F)</b> ) |                           |        |          |           |
| Evaporating temperature                 | Cooling capacity<br>+/- 5% |                                  |         | Power consumption<br>+/- 5% | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                       | EFFICIENCY RATE<br>+/- 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:<br>@220V1300RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V1300RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V2000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 35°C (+95°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%           | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V2000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V2000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V3000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 35°C (+95°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%           | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V3000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V3000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V4000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 35°C (+95°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%           | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V4000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 45°C (+113°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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:<br>@220V4000RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 55°C (+131°F)) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%            | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 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                 |      |                          |