

### COMPRESSOR DEFINITION

|                           |                         |
|---------------------------|-------------------------|
| Designation               | <b>FMX Y6C</b>          |
| Nominal Voltage/Frequency | <b>230 V 43 -134 Hz</b> |
| Engineering Number        | <b>513908210</b>        |

### 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      | 1/10           | [hp]                             |
| 2 Displacement                | 6.23           | [cm <sup>3</sup> ] (0.380 cu.in) |
| 2.1 Bore [mm]                 | 21.000         |                                  |
| 2.2 Stroke [mm]               | 18.000         |                                  |
| 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)    | 4.9            | [kg] (10.80 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                    | 18.50                            | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                      | 18.50                            | [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              | 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] |  |
| 133                                     | 34       | 39  | 24                                  | 0.22                          | 0.42  | 5.45                      | 1.37   | 1.60  |  |

|   |          |     |                                     |                               |   |                           |  |       |  |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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] |  |
| 222                                     | 56       | 65  | 40                                  | 0.29                          | 0.70  | 5.61                      | 1.41   | 1.64  |  |

|   |          |     |                                     |                               |   |                           |  |       |  |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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] |  |
| 331                                     | 83       | 97  | 59                                  | 0.42                          | 1.04  | 5.59                      | 1.41   | 1.64  |  |

|   |          |     |                                     |                               |   |                           |  |       |  |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|--|
| 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] |  |
| 413                                     | 104      | 121 | 73                                  | 0.61                          | 1.30  | 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)                      | 78                               | 20      | 23                          | 15                            | 0.16                    | 0.24  | 5.29   | 1.33     | 1.55      |
| -30                                     | (-22)                      | 114                              | 29      | 33                          | 18                            | 0.17                    | 0.36  | 6.24   | 1.57     | 1.83      |
| -25                                     | (-13)                      | 156                              | 39      | 46                          | 21                            | 0.19                    | 0.49  | 7.24   | 1.82     | 2.12      |
| -20                                     | (- 4)                      | 205                              | 52      | 60                          | 25                            | 0.21                    | 0.64  | 8.35   | 2.10     | 2.45      |
| -15                                     | (+ 5)                      | 263                              | 66      | 77                          | 28                            | 0.24                    | 0.83  | 9.63   | 2.43     | 2.82      |
| -10                                     | (+14)                      | 331                              | 83      | 97                          | 30                            | 0.26                    | 1.04  | 11.16  | 2.81     | 3.27      |
| -5                                      | (+23)                      | 410                              | 103     | 120                         | 31                            | 0.28                    | 1.30  | 12.97  | 3.27     | 3.80      |
| 0                                       | (+32)                      | 502                              | 127     | 147                         | 32                            | 0.28                    | 1.59  | 15.15  | 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) | 68                         | 17       | 20  | 16                                     | 0.17                          | 0.21                    | 4.41                      | 1.11      | 1.29  |
| -30                              | (-22) | 99                         | 25       | 29  | 19                                     | 0.18                          | 0.31                    | 5.24                      | 1.32      | 1.53  |
| -25                              | (-13) | 136                        | 34       | 40  | 22                                     | 0.20                          | 0.43                    | 6.05                      | 1.52      | 1.77  |
| -20                              | (- 4) | 181                        | 46       | 53  | 26                                     | 0.23                          | 0.57                    | 6.90                      | 1.74      | 2.02  |
| -15                              | (+ 5) | 236                        | 59       | 69  | 30                                     | 0.26                          | 0.74                    | 7.86                      | 1.98      | 2.30  |
| -10                              | (+14) | 302                        | 76       | 89  | 34                                     | 0.29                          | 0.95                    | 8.99                      | 2.27      | 2.63  |
| -5                               | (+23) | 381                        | 96       | 112 | 37                                     | 0.32                          | 1.21                    | 10.35                     | 2.61      | 3.03  |
| 0                                | (+32) | 474                        | 119      | 139 | 40                                     | 0.34                          | 1.50                    | 12.01                     | 3.03      | 3.52  |

| 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) | 63                         | 16       | 18  | 16                                     | 0.19                          | 0.20                    | 3.80                      | 0.96      | 1.11  |
| -30                              | (-22) | 87                         | 22       | 25  | 19                                     | 0.19                          | 0.27                    | 4.54                      | 1.14      | 1.33  |
| -25                              | (-13) | 118                        | 30       | 35  | 23                                     | 0.21                          | 0.37                    | 5.20                      | 1.31      | 1.52  |
| -20                              | (- 4) | 159                        | 40       | 46  | 27                                     | 0.24                          | 0.50                    | 5.83                      | 1.47      | 1.71  |
| -15                              | (+ 5) | 210                        | 53       | 62  | 32                                     | 0.28                          | 0.66                    | 6.51                      | 1.64      | 1.91  |
| -10                              | (+14) | 274                        | 69       | 80  | 37                                     | 0.32                          | 0.86                    | 7.28                      | 1.84      | 2.13  |
| -5                               | (+23) | 351                        | 88       | 103 | 43                                     | 0.36                          | 1.11                    | 8.23                      | 2.07      | 2.41  |
| 0                                | (+32) | 444                        | 112      | 130 | 48                                     | 0.39                          | 1.41                    | 9.39                      | 2.37      | 2.75  |

| 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) | 131                        | 33       | 38  | 21                                    | 0.20                          | 0.41                    | 6.10                      | 1.54      | 1.79  |
| -30                              | (-22) | 183                        | 46       | 54  | 27                                    | 0.22                          | 0.57                    | 6.71                      | 1.69      | 1.97  |
| -25                              | (-13) | 244                        | 61       | 71  | 33                                    | 0.26                          | 0.77                    | 7.51                      | 1.89      | 2.20  |
| -20                              | (- 4) | 316                        | 80       | 93  | 37                                    | 0.30                          | 0.99                    | 8.52                      | 2.15      | 2.50  |
| -15                              | (+ 5) | 403                        | 102      | 118 | 41                                    | 0.34                          | 1.27                    | 9.77                      | 2.46      | 2.86  |
| -10                              | (+14) | 508                        | 128      | 149 | 45                                    | 0.38                          | 1.60                    | 11.28                     | 2.84      | 3.31  |
| -5                               | (+23) | 634                        | 160      | 186 | 48                                    | 0.40                          | 2.00                    | 13.08                     | 3.30      | 3.83  |
| 0                                | (+32) | 784                        | 198      | 230 | 52                                    | 0.41                          | 2.48                    | 15.19                     | 3.83      | 4.45  |

### 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) | 105                        | 26       | 31  | 23                                     | 0.22                          | 0.33                    | 4.69                      | 1.18      | 1.37  |
| -30                              | (-22) | 156                        | 39       | 46  | 29                                     | 0.24                          | 0.49                    | 5.43                      | 1.37      | 1.59  |
| -25                              | (-13) | 216                        | 54       | 63  | 34                                     | 0.28                          | 0.68                    | 6.24                      | 1.57      | 1.83  |
| -20                              | (- 4) | 287                        | 72       | 84  | 40                                     | 0.33                          | 0.90                    | 7.17                      | 1.81      | 2.10  |
| -15                              | (+ 5) | 373                        | 94       | 109 | 45                                     | 0.38                          | 1.17                    | 8.22                      | 2.07      | 2.41  |
| -10                              | (+14) | 476                        | 120      | 139 | 50                                     | 0.43                          | 1.50                    | 9.43                      | 2.38      | 2.76  |
| -5                               | (+23) | 600                        | 151      | 176 | 56                                     | 0.47                          | 1.90                    | 10.82                     | 2.73      | 3.17  |
| 0                                | (+32) | 749                        | 189      | 219 | 61                                     | 0.50                          | 2.37                    | 12.41                     | 3.13      | 3.64  |

| 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) | 87                         | 22       | 25  | 23                                     | 0.23                          | 0.27                    | 3.82                      | 0.96      | 1.12  |
| -30                              | (-22) | 136                        | 34       | 40  | 29                                     | 0.25                          | 0.43                    | 4.67                      | 1.18      | 1.37  |
| -25                              | (-13) | 193                        | 49       | 57  | 35                                     | 0.29                          | 0.61                    | 5.49                      | 1.38      | 1.61  |
| -20                              | (- 4) | 261                        | 66       | 77  | 42                                     | 0.34                          | 0.82                    | 6.31                      | 1.59      | 1.85  |
| -15                              | (+ 5) | 344                        | 87       | 101 | 48                                     | 0.40                          | 1.08                    | 7.16                      | 1.80      | 2.10  |
| -10                              | (+14) | 445                        | 112      | 130 | 55                                     | 0.46                          | 1.40                    | 8.05                      | 2.03      | 2.36  |
| -5                               | (+23) | 566                        | 143      | 166 | 63                                     | 0.51                          | 1.79                    | 9.02                      | 2.27      | 2.64  |
| 0                                | (+32) | 711                        | 179      | 208 | 71                                     | 0.55                          | 2.25                    | 10.08                     | 2.54      | 2.95  |

| 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) | 190                        | 48       | 56  | 36                                    | 0.29                          | 0.59                    | 5.22                      | 1.32      | 1.53  |
| -30                              | (-22) | 262                        | 66       | 77  | 42                                    | 0.32                          | 0.82                    | 6.18                      | 1.56      | 1.81  |
| -25                              | (-13) | 355                        | 90       | 104 | 49                                    | 0.37                          | 1.11                    | 7.17                      | 1.81      | 2.10  |
| -20                              | (- 4) | 471                        | 119      | 138 | 57                                    | 0.44                          | 1.48                    | 8.25                      | 2.08      | 2.42  |
| -15                              | (+ 5) | 610                        | 154      | 179 | 64                                    | 0.50                          | 1.92                    | 9.49                      | 2.39      | 2.78  |
| -10                              | (+14) | 772                        | 194      | 226 | 71                                    | 0.55                          | 2.43                    | 10.95                     | 2.76      | 3.21  |
| -5                               | (+23) | 957                        | 241      | 280 | 75                                    | 0.58                          | 3.03                    | 12.68                     | 3.20      | 3.72  |
| 0                                | (+32) | 1166                       | 294      | 342 | 78                                    | 0.56                          | 3.70                    | 14.77                     | 3.72      | 4.33  |

### 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) | 173                        | 44       | 51  | 38                                     | 0.31                          | 0.54                    | 4.55                      | 1.15      | 1.33  |
| -30                              | (-22) | 242                        | 61       | 71  | 44                                     | 0.33                          | 0.76                    | 5.52                      | 1.39      | 1.62  |
| -25                              | (-13) | 333                        | 84       | 98  | 52                                     | 0.39                          | 1.04                    | 6.43                      | 1.62      | 1.89  |
| -20                              | (- 4) | 445                        | 112      | 130 | 60                                     | 0.47                          | 1.40                    | 7.34                      | 1.85      | 2.15  |
| -15                              | (+ 5) | 578                        | 146      | 169 | 69                                     | 0.55                          | 1.82                    | 8.32                      | 2.10      | 2.44  |
| -10                              | (+14) | 734                        | 185      | 215 | 78                                     | 0.62                          | 2.31                    | 9.42                      | 2.37      | 2.76  |
| -5                               | (+23) | 912                        | 230      | 267 | 85                                     | 0.67                          | 2.88                    | 10.70                     | 2.70      | 3.14  |
| 0                                | (+32) | 1113                       | 281      | 326 | 91                                     | 0.68                          | 3.53                    | 12.24                     | 3.08      | 3.59  |

| 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) | 132                        | 33       | 39  | 39                                     | 0.33                          | 0.41                    | 3.39                      | 0.85      | 0.99  |
| -30                              | (-22) | 201                        | 51       | 59  | 45                                     | 0.35                          | 0.63                    | 4.53                      | 1.14      | 1.33  |
| -25                              | (-13) | 290                        | 73       | 85  | 53                                     | 0.40                          | 0.91                    | 5.53                      | 1.39      | 1.62  |
| -20                              | (- 4) | 400                        | 101      | 117 | 62                                     | 0.48                          | 1.26                    | 6.43                      | 1.62      | 1.88  |
| -15                              | (+ 5) | 530                        | 134      | 155 | 73                                     | 0.57                          | 1.67                    | 7.30                      | 1.84      | 2.14  |
| -10                              | (+14) | 682                        | 172      | 200 | 83                                     | 0.65                          | 2.15                    | 8.20                      | 2.07      | 2.40  |
| -5                               | (+23) | 855                        | 215      | 251 | 93                                     | 0.72                          | 2.70                    | 9.19                      | 2.32      | 2.69  |
| 0                                | (+32) | 1050                       | 265      | 308 | 102                                    | 0.75                          | 3.33                    | 10.34                     | 2.61      | 3.03  |

| 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) | 216                        | 54       | 63  | 47                                    | 0.35                          | 0.68                    | 4.61                      | 1.16      | 1.35  |
| -30                              | (-22) | 316                        | 80       | 93  | 56                                    | 0.44                          | 0.99                    | 5.61                      | 1.41      | 1.65  |
| -25                              | (-13) | 433                        | 109      | 127 | 67                                    | 0.53                          | 1.36                    | 6.50                      | 1.64      | 1.90  |
| -20                              | (- 4) | 572                        | 144      | 168 | 78                                    | 0.62                          | 1.80                    | 7.36                      | 1.86      | 2.16  |
| -15                              | (+ 5) | 740                        | 187      | 217 | 89                                    | 0.70                          | 2.33                    | 8.30                      | 2.09      | 2.43  |
| -10                              | (+14) | 944                        | 238      | 277 | 100                                   | 0.78                          | 2.98                    | 9.42                      | 2.37      | 2.76  |
| -5                               | (+23) | 1191                       | 300      | 349 | 110                                   | 0.85                          | 3.76                    | 10.80                     | 2.72      | 3.16  |
| 0                                | (+32) | 1486                       | 375      | 436 | 119                                   | 0.92                          | 4.71                    | 12.55                     | 3.16      | 3.68  |

### 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) | 202                        | 51       | 59  | 49                                     | 0.37                          | 0.63                    | 4.13                      | 1.04      | 1.21  |
| -30                              | (-22) | 298                        | 75       | 87  | 58                                     | 0.46                          | 0.93                    | 5.14                      | 1.30      | 1.51  |
| -25                              | (-13) | 408                        | 103      | 120 | 68                                     | 0.55                          | 1.28                    | 5.96                      | 1.50      | 1.75  |
| -20                              | (- 4) | 540                        | 136      | 158 | 81                                     | 0.64                          | 1.70                    | 6.69                      | 1.69      | 1.96  |
| -15                              | (+ 5) | 701                        | 177      | 205 | 94                                     | 0.73                          | 2.21                    | 7.43                      | 1.87      | 2.18  |
| -10                              | (+14) | 896                        | 226      | 262 | 108                                    | 0.83                          | 2.83                    | 8.26                      | 2.08      | 2.42  |
| -5                               | (+23) | 1132                       | 285      | 332 | 122                                    | 0.92                          | 3.58                    | 9.30                      | 2.34      | 2.72  |
| 0                                | (+32) | 1416                       | 357      | 415 | 135                                    | 1.01                          | 4.49                    | 10.63                     | 2.68      | 3.12  |

| 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) | 175                        | 44       | 51  | 52                                     | 0.39                          | 0.55                    | 3.39                      | 0.85      | 0.99  |
| -30                              | (-22) | 264                        | 67       | 77  | 58                                     | 0.48                          | 0.83                    | 4.51                      | 1.14      | 1.32  |
| -25                              | (-13) | 367                        | 92       | 108 | 68                                     | 0.57                          | 1.15                    | 5.38                      | 1.36      | 1.58  |
| -20                              | (- 4) | 490                        | 124      | 144 | 81                                     | 0.67                          | 1.54                    | 6.08                      | 1.53      | 1.78  |
| -15                              | (+ 5) | 641                        | 162      | 188 | 96                                     | 0.77                          | 2.02                    | 6.71                      | 1.69      | 1.97  |
| -10                              | (+14) | 825                        | 208      | 242 | 112                                    | 0.87                          | 2.60                    | 7.38                      | 1.86      | 2.16  |
| -5                               | (+23) | 1049                       | 264      | 307 | 128                                    | 0.98                          | 3.32                    | 8.17                      | 2.06      | 2.39  |
| 0                                | (+32) | 1320                       | 333      | 387 | 145                                    | 1.09                          | 4.18                    | 9.19                      | 2.32      | 2.69  |

### F - EXTERNAL CHARACTERISTICS

|                         |                              |      |                          |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate            | European Standard FMX        |      |                          |
| 2 Tray holder           | Yes                          |      |                          |
| 3 Connectors            |                              |      |                          |
| 3.1 SUCTION             | 6.1 +0.10/+0.00              | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material          | Copper                       |      |                          |
| 3.1.2 Shape             | Slanted 45° up + 57° to Back |      |                          |
| 3.2 DISCHARGE           | 5.1 +0.10/+0.00              | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material          | Copper                       |      |                          |
| 3.2.2 Shape             | Slanted 45° up + 37° to Back |      |                          |
| 3.3 PROCESS             | 6 +0.08/-0.08                | [mm] | (0.236" +0.003"/-0.003") |
| 3.3.1 Material          | Copper(OD)                   |      |                          |
| 3.3.2 Shape             | Slanted 45° up + 11° to Back |      |                          |
| 3.4 Oil cooler (Copper) | No                           | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                 |      |                          |