

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | EG X100CLC      |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number        | 513703069       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |                                   |                                   |           |
|------------------------------------|-----------------------------------|-----------------------------------|-----------|
| 1 Type                             | Hermetic reciprocating compressor |                                   |           |
| 2 Refrigerant                      | R-600a                            |                                   |           |
| 3 Nominal voltage and frequency    | 220-240 / 50                      | [ V / Hz ]                        |           |
| 4 Application type                 | Low Back Pressure                 |                                   |           |
| 4.1 Evaporating temperature range  | -35°C to -10°C                    | (-31°F to 14°F)                   |           |
| 5 Motor type                       | RSCR                              |                                   |           |
| 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) | Static                            | 198 to 255 V                      | -         |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 198 to 255 V                      | -         |
| 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      | 1/3            | [hp]                             |
| 2 Displacement                | 13.54          | [cm <sup>3</sup> ] (0.826 cu.in) |
| 2.1 Bore [mm]                 | 28.000         |                                  |
| 2.2 Stroke [mm]               | 22.000         |                                  |
| 3 Lubricant charge            | 280            | [ml] (9.47 fl.oz.)               |
| 3.1 Lubricants approved       |                |                                  |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 |                                  |
| 4 Weight (with oil charge)    | 11.24          | [kg] (24.78 lb.)                 |
| 5 Nitrogen charge             | -              | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|  |                                    |                                    |
|--|------------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 220-240 V 50 Hz 1 ~ (Single phase) |                                    |
| 2 Starting device type                       | PTC                                |                                    |
| 2.1 Starting device                          | 8EA17C3/8EA17E62/QPS2-A22MD3       |                                    |
| 3 Start capacitor                            | -                                  | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | 4(350)/5(350)                      | [µF(VAC minimum)]                  |
| 5 Motor protection                           | 4TM283KFBYY-73                     |                                    |
| 6 Start winding resistance                   | 21.20                              | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 19.60                              | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (50 Hz)        | -                                  | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50 Hz)     | -                                  | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50 Hz)      | -                                  | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CCC - CE - UKCA - VDE              |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                               |          |     |                                    |                               |  |                               |           |       |
|-------------------------------|----------|-----|------------------------------------|-------------------------------|--|-------------------------------|-----------|-------|
| TEST CONDITIONS:<br>@220V50Hz |          |     | <b>CECOMAF-LBP-NOFAN</b><br>Static |                               | Evaporating temperature<br>(Condensing temperature | -25°C (-13°F)<br>55°C (131°F) |           |       |
| 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] |
| 577                           | 145      | 169 | 118                                | 0.54                          | 2.20   | 4.89                          | 1.23      | 1.43  |

### E - PERFORMANCE - CURVES

|                               |                            |                                |     |                             |                               |  |                           |           |       |
|-------------------------------|----------------------------|--------------------------------|-----|-----------------------------|-------------------------------|--|---------------------------|-----------|-------|
| TEST CONDITIONS:<br>@220V50Hz |                            | <b>CECOMAF-NOFAN</b><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)                     | 395                        | 100                            | 116 | 84                          | 0.40                          | 1.37                                   | 4.71                      | 1.19      | 1.38  |
| -30 (-22)                     | 520                        | 131                            | 152 | 99                          | 0.46                          | 1.82                                   | 5.31                      | 1.34      | 1.56  |
| -25 (-13)                     | 654                        | 165                            | 192 | 111                         | 0.52                          | 2.28                                   | 5.95                      | 1.50      | 1.74  |
| -20 (- 4)                     | 813                        | 205                            | 238 | 122                         | 0.57                          | 2.83                                   | 6.64                      | 1.67      | 1.95  |
| -15 (+ 5)                     | 1014                       | 255                            | 297 | 135                         | 0.63                          | 3.53                                   | 7.41                      | 1.87      | 2.17  |
| -10 (+14)                     | 1271                       | 320                            | 373 | 152                         | 0.71                          | 4.44                                   | 8.26                      | 2.08      | 2.42  |

|                               |                            |                                |     |                             |                               |  |                           |           |       |
|-------------------------------|----------------------------|--------------------------------|-----|-----------------------------|-------------------------------|--|---------------------------|-----------|-------|
| TEST CONDITIONS:<br>@220V50Hz |                            | <b>CECOMAF-NOFAN</b><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)                     | 309                        | 78                             | 91  | 81                          | 0.39                          | 1.17                                   | 3.80                      | 0.96      | 1.11  |
| -30 (-22)                     | 445                        | 112                            | 130 | 102                         | 0.47                          | 1.70                                   | 4.37                      | 1.10      | 1.28  |
| -25 (-13)                     | 577                        | 145                            | 169 | 118                         | 0.54                          | 2.21                                   | 4.93                      | 1.24      | 1.44  |
| -20 (- 4)                     | 722                        | 182                            | 211 | 133                         | 0.61                          | 2.76                                   | 5.48                      | 1.38      | 1.61  |
| -15 (+ 5)                     | 895                        | 225                            | 262 | 148                         | 0.68                          | 3.43                                   | 6.05                      | 1.53      | 1.77  |
| -10 (+14)                     | 1112                       | 280                            | 326 | 166                         | 0.77                          | 4.27                                   | 6.66                      | 1.68      | 1.95  |

|                               |                            |                                |     |                             |                               |  |                           |           |       |
|-------------------------------|----------------------------|--------------------------------|-----|-----------------------------|-------------------------------|--|---------------------------|-----------|-------|
| TEST CONDITIONS:<br>@220V50Hz |                            | <b>CECOMAF-NOFAN</b><br>Static |     |                             |                               | (Condensing temperature 65°C (+149°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  | 71                          | 0.36                          | 0.83                                   | 2.80                      | 0.71      | 0.82  |
| -30 (-22)                     | 350                        | 88                             | 103 | 98                          | 0.47                          | 1.47                                   | 3.42                      | 0.86      | 1.00  |
| -25 (-13)                     | 487                        | 123                            | 143 | 121                         | 0.56                          | 2.05                                   | 3.96                      | 1.00      | 1.16  |
| -20 (- 4)                     | 624                        | 157                            | 183 | 141                         | 0.65                          | 2.64                                   | 4.45                      | 1.12      | 1.30  |
| -15 (+ 5)                     | 776                        | 195                            | 227 | 160                         | 0.73                          | 3.30                                   | 4.90                      | 1.23      | 1.43  |
| -10 (+14)                     | 959                        | 242                            | 281 | 181                         | 0.83                          | 4.09                                   | 5.32                      | 1.34      | 1.56  |

### F - EXTERNAL CHARACTERISTICS

|                         |                   |      |                          |
|-------------------------|-------------------|------|--------------------------|
| 1 Base plate            | European Standard |      |                          |
| 2 Tray holder           | No                |      |                          |
| 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           |      |                          |
| 3.2 DISCHARGE           | 4.94 +0.08/-0.08  | [mm] | (0.194" +0.003"/-0.003") |
| 3.2.1 Material          | Copper            |      |                          |
| 3.2.2 Shape             | Slanted           |      |                          |
| 3.3 PROCESS             | 6.1 +0.10/+0.00   | [mm] | (0.240" +0.004"/+0.000") |
| 3.3.1 Material          | Copper            |      |                          |
| 3.3.2 Shape             | Slanted           |      |                          |
| 3.4 Oil cooler (Copper) | No                | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs      |      |                          |