

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEM Z7C         |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number        | 513902005       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |                                   |                                   |             |
|------------------------------------|-----------------------------------|-----------------------------------|-------------|
| 1 Type                             | Hermetic reciprocating compressor |                                   |             |
| 2 Refrigerant                      | R-600a                            |                                   |             |
| 3 Nominal voltage and frequency    | 230 / 53-150                      | [ 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                       | 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) | Static                            | 98 to 140 V                       | 98 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 98 to 140 V                       | 98 to 140 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      | 1/5            | [hp]                             |
| 2 Displacement                | 7.23           | [cm <sup>3</sup> ] (0.441 cu.in) |
| 2.1 Bore [mm]                 | 24.000         |                                  |
| 2.2 Stroke [mm]               | 16.000         |                                  |
| 3 Lubricant charge            | 220            | [ml] (7.44 fl.oz.)               |
| 3.1 Lubricants approved       |                |                                  |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 |                                  |
| 4 Weight (with oil charge)    | 7.59           | [kg] (16.73 lb.)                 |
| 5 Nitrogen charge             | -              | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|  |                                   |                                    |
|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 53-150 Hz 3 ~ (Three phase) |                                    |
| 2 Starting device type                       | Inverter                          |                                    |
| 2.1 Starting device                          | VCC31156XXXX                      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | VCC31156XXXXX                     |                                    |
| 6 Start winding resistance                   | 16.07                             | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 16.07                             | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (53/15 Hz)     | -                                 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (53/15 Hz)  | -                                 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (53/15 Hz)   | -                                 | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CE - UKCA - UL                    |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@115V1600RPM |          |     | CECOMAFLBP<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] |
| 179                              | 45       | 52  | 38                          | 0.58                          | 0.68   | 4.69                      | 1.18                          | 1.37  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@115V2000RPM |          |     | CECOMAFLBP<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] |
| 225                              | 57       | 66  | 45                          | 0.66                          | 0.86   | 4.97                      | 1.25                          | 1.46  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@115V3000RPM |          |     | CECOMAFLBP<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] |
| 349                              | 88       | 102 | 69                          | 0.98                          | 1.33   | 5.03                      | 1.27                          | 1.47  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@115V4500RPM |          |     | CECOMAFLBP<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] |
| 499                              | 126      | 146 | 107                         | 1.44                          | 1.90   | 4.68                      | 1.18                          | 1.37  |

### E - PERFORMANCE - CURVES

|                                  |                            |                   |         |                             |                               |  |                           |        |          |           |
|----------------------------------|----------------------------|-------------------|---------|-----------------------------|-------------------------------|--|---------------------------|--------|----------|-----------|
| TEST CONDITIONS:<br>@115V1600RPM |                            | CECOMAF<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] |
| -35                              | (-31)                      | 145               | 37      | 43                          | 24                            | 0.22                                   | 0.47                      | 5.96   | 1.50     | 1.75      |
| -30                              | (-22)                      | 195               | 49      | 57                          | 29                            | 0.25                                   | 0.63                      | 6.82   | 1.72     | 2.00      |
| -25                              | (-13)                      | 248               | 63      | 73                          | 33                            | 0.28                                   | 0.80                      | 7.62   | 1.92     | 2.23      |
| -20                              | (- 4)                      | 311               | 78      | 91                          | 37                            | 0.30                                   | 1.00                      | 8.49   | 2.14     | 2.49      |
| -15                              | (+ 5)                      | 390               | 98      | 114                         | 41                            | 0.32                                   | 1.25                      | 9.55   | 2.41     | 2.80      |
| -10                              | (+14)                      | 492               | 124     | 144                         | 45                            | 0.35                                   | 1.58                      | 10.93  | 2.76     | 3.20      |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:        |                  | CECOMAF  |     |                   | (Condensing temperature 45°C (+113°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V1600RPM            |                  | Static   |     |                   |  |               |                 |           |       |  |
| Evaporating temperature | Cooling capacity |          |     | Power consumption | Current consumption                    | Gas flow rate | EFFICIENCY RATE |           |       |  |
|                         | +/- 5%           |          |     |                   |  |               | +/- 7%          |           |       |  |
| °C (°F)                 | [Btu/h]          | [kcal/h] | [W] | [W]               | [A]                                    | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |  |
| -35 (-31)               | 112              | 28       | 33  | 26                | 0.23                                   | 0.39          | 4.42            | 1.11      | 1.30  |  |
| -30 (-22)               | 163              | 41       | 48  | 30                | 0.27                                   | 0.57          | 5.33            | 1.34      | 1.56  |  |
| -25 (-13)               | 213              | 54       | 63  | 35                | 0.30                                   | 0.74          | 6.09            | 1.53      | 1.78  |  |
| -20 (- 4)               | 271              | 68       | 79  | 40                | 0.33                                   | 0.95          | 6.81            | 1.72      | 1.99  |  |
| -15 (+ 5)               | 343              | 86       | 100 | 45                | 0.37                                   | 1.20          | 7.63            | 1.92      | 2.24  |  |
| -10 (+14)               | 434              | 109      | 127 | 50                | 0.40                                   | 1.52          | 8.68            | 2.19      | 2.54  |  |

| TEST CONDITIONS:        |                  | CECOMAF  |     |                   | (Condensing temperature 55°C (+131°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V1600RPM            |                  | Static   |     |                   |  |               |                 |           |       |  |
| Evaporating temperature | Cooling capacity |          |     | Power consumption | Current consumption                    | Gas flow rate | EFFICIENCY RATE |           |       |  |
|                         | +/- 5%           |          |     |                   |  |               | +/- 7%          |           |       |  |
| °C (°F)                 | [Btu/h]          | [kcal/h] | [W] | [W]               | [A]                                    | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |  |
| -35 (-31)               | 85               | 22       | 25  | 26                | 0.22                                   | 0.33          | 3.28            | 0.83      | 0.96  |  |
| -30 (-22)               | 135              | 34       | 39  | 32                | 0.27                                   | 0.51          | 4.19            | 1.06      | 1.23  |  |
| -25 (-13)               | 181              | 46       | 53  | 38                | 0.32                                   | 0.69          | 4.85            | 1.22      | 1.42  |  |
| -20 (- 4)               | 232              | 59       | 68  | 44                | 0.37                                   | 0.89          | 5.38            | 1.35      | 1.58  |  |
| -15 (+ 5)               | 295              | 74       | 86  | 50                | 0.41                                   | 1.13          | 5.90            | 1.49      | 1.73  |  |
| -10 (+14)               | 374              | 94       | 110 | 57                | 0.46                                   | 1.44          | 6.57            | 1.66      | 1.92  |  |

| TEST CONDITIONS:        |                  | CECOMAF  |     |                   | (Condensing temperature 35°C (+95°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V2000RPM            |                  | Static   |     |                   |                                       |               |                 |           |       |  |
| Evaporating temperature | Cooling capacity |          |     | Power consumption | Current consumption                   | Gas flow rate | EFFICIENCY RATE |           |       |  |
|                         | +/- 5%           |          |     |                   |                                       |               | +/- 7%          |           |       |  |
| °C (°F)                 | [Btu/h]          | [kcal/h] | [W] | [W]               | [A]                                   | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |  |
| -35 (-31)               | 176              | 44       | 51  | 30                | 0.28                                  | 0.56          | 5.79            | 1.46      | 1.70  |  |
| -30 (-22)               | 239              | 60       | 70  | 35                | 0.30                                  | 0.77          | 6.78            | 1.71      | 1.99  |  |
| -25 (-13)               | 311              | 78       | 91  | 40                | 0.33                                  | 1.00          | 7.75            | 1.95      | 2.27  |  |
| -20 (- 4)               | 394              | 99       | 115 | 45                | 0.37                                  | 1.26          | 8.75            | 2.21      | 2.57  |  |
| -15 (+ 5)               | 490              | 123      | 143 | 50                | 0.41                                  | 1.57          | 9.88            | 2.49      | 2.89  |  |
| -10 (+14)               | 601              | 152      | 176 | 54                | 0.44                                  | 1.94          | 11.18           | 2.82      | 3.28  |  |

| TEST CONDITIONS:        |                  | CECOMAF  |     |                   | (Condensing temperature 45°C (+113°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2000RPM            |                  | Static   |     |                   |  |               |                 |           |       |  |
| Evaporating temperature | Cooling capacity |          |     | Power consumption | Current consumption                    | Gas flow rate | EFFICIENCY RATE |           |       |  |
|                         | +/- 5%           |          |     |                   |  |               | +/- 7%          |           |       |  |
| °C (°F)                 | [Btu/h]          | [kcal/h] | [W] | [W]               | [A]                                    | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |  |
| -35 (-31)               | 144              | 36       | 42  | 32                | 0.27                                   | 0.50          | 4.57            | 1.15      | 1.34  |  |
| -30 (-22)               | 200              | 50       | 59  | 37                | 0.31                                   | 0.69          | 5.40            | 1.36      | 1.58  |  |
| -25 (-13)               | 263              | 66       | 77  | 43                | 0.35                                   | 0.92          | 6.16            | 1.55      | 1.81  |  |
| -20 (- 4)               | 337              | 85       | 99  | 49                | 0.41                                   | 1.18          | 6.92            | 1.74      | 2.03  |  |
| -15 (+ 5)               | 424              | 107      | 124 | 55                | 0.46                                   | 1.48          | 7.74            | 1.95      | 2.27  |  |
| -10 (+14)               | 526              | 132      | 154 | 60                | 0.50                                   | 1.84          | 8.70            | 2.19      | 2.55  |  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V2000RPM |                            | CECOMAF<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)                        | 111                        | 28                | 33       | 32                          | 0.27                                   | 0.42                    | 3.41                      | 0.86     | 1.00      |       |
| -30 (-22)                        | 162                        | 41                | 47       | 38                          | 0.32                                   | 0.62                    | 4.20                      | 1.06     | 1.23      |       |
| -25 (-13)                        | 219                        | 55                | 64       | 45                          | 0.37                                   | 0.84                    | 4.86                      | 1.23     | 1.42      |       |
| -20 (- 4)                        | 286                        | 72                | 84       | 52                          | 0.44                                   | 1.09                    | 5.48                      | 1.38     | 1.61      |       |
| -15 (+ 5)                        | 365                        | 92                | 107      | 60                          | 0.50                                   | 1.40                    | 6.11                      | 1.54     | 1.79      |       |
| -10 (+14)                        | 459                        | 116               | 135      | 67                          | 0.55                                   | 1.76                    | 6.83                      | 1.72     | 2.00      |       |

| TEST CONDITIONS:<br>@115V3000RPM |                            | CECOMAF<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)                        | 264                        | 66                | 77       | 46                          | 0.40                                  | 0.84                    | 5.66                      | 1.43     | 1.66      |       |
| -30 (-22)                        | 358                        | 90                | 105      | 54                          | 0.46                                  | 1.15                    | 6.56                      | 1.65     | 1.92      |       |
| -25 (-13)                        | 451                        | 114               | 132      | 62                          | 0.51                                  | 1.45                    | 7.28                      | 1.83     | 2.13      |       |
| -20 (- 4)                        | 557                        | 140               | 163      | 70                          | 0.56                                  | 1.79                    | 8.00                      | 2.02     | 2.34      |       |
| -15 (+ 5)                        | 694                        | 175               | 203      | 78                          | 0.61                                  | 2.23                    | 8.89                      | 2.24     | 2.61      |       |
| -10 (+14)                        | 878                        | 221               | 257      | 86                          | 0.66                                  | 2.83                    | 10.13                     | 2.55     | 2.97      |       |

| TEST CONDITIONS:<br>@115V3000RPM |                            | CECOMAF<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)                        | 209                        | 53                | 61       | 47                          | 0.39                                   | 0.72                    | 4.46                      | 1.12     | 1.31      |       |
| -30 (-22)                        | 302                        | 76                | 89       | 56                          | 0.46                                   | 1.05                    | 5.35                      | 1.35     | 1.57      |       |
| -25 (-13)                        | 389                        | 98                | 114      | 65                          | 0.53                                   | 1.35                    | 5.98                      | 1.51     | 1.75      |       |
| -20 (- 4)                        | 484                        | 122               | 142      | 74                          | 0.59                                   | 1.69                    | 6.54                      | 1.65     | 1.92      |       |
| -15 (+ 5)                        | 605                        | 152               | 177      | 84                          | 0.66                                   | 2.11                    | 7.19                      | 1.81     | 2.11      |       |
| -10 (+14)                        | 768                        | 194               | 225      | 94                          | 0.74                                   | 2.69                    | 8.11                      | 2.04     | 2.38      |       |

| TEST CONDITIONS:<br>@115V3000RPM |                            | CECOMAF<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)                        | 170                        | 43                | 50       | 49                          | 0.40                                   | 0.65                    | 3.47                      | 0.87     | 1.02      |       |
| -30 (-22)                        | 260                        | 65                | 76       | 58                          | 0.47                                   | 0.98                    | 4.39                      | 1.11     | 1.29      |       |
| -25 (-13)                        | 337                        | 85                | 99       | 68                          | 0.54                                   | 1.28                    | 4.98                      | 1.25     | 1.46      |       |
| -20 (- 4)                        | 418                        | 105               | 123      | 78                          | 0.62                                   | 1.60                    | 5.42                      | 1.37     | 1.59      |       |
| -15 (+ 5)                        | 520                        | 131               | 153      | 89                          | 0.71                                   | 2.00                    | 5.88                      | 1.48     | 1.72      |       |
| -10 (+14)                        | 660                        | 166               | 193      | 100                         | 0.80                                   | 2.54                    | 6.53                      | 1.65     | 1.91      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V4500RPM |                            | CECOMAF<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)                        | 359                        | 91                | 105      | 71                          | 0.57                                  | 1.15                    | 5.08                      | 1.28     | 1.49      |       |
| -30 (-22)                        | 486                        | 122               | 142      | 80                          | 0.64                                  | 1.56                    | 6.03                      | 1.52     | 1.77      |       |
| -25 (-13)                        | 632                        | 159               | 185      | 91                          | 0.70                                  | 2.03                    | 6.93                      | 1.75     | 2.03      |       |
| -20 (- 4)                        | 799                        | 201               | 234      | 102                         | 0.76                                  | 2.57                    | 7.81                      | 1.97     | 2.29      |       |
| -15 (+ 5)                        | 989                        | 249               | 290      | 113                         | 0.83                                  | 3.18                    | 8.73                      | 2.20     | 2.56      |       |
| -10 (+14)                        | 1204                       | 303               | 353      | 124                         | 0.90                                  | 3.88                    | 9.74                      | 2.45     | 2.85      |       |

| TEST CONDITIONS:<br>@115V4500RPM |                            | CECOMAF<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)                        | 300                        | 76                | 88       | 70                          | 0.54                                   | 1.04                    | 4.24                      | 1.07     | 1.24      |       |
| -30 (-22)                        | 412                        | 104               | 121      | 82                          | 0.65                                   | 1.44                    | 5.00                      | 1.26     | 1.47      |       |
| -25 (-13)                        | 542                        | 137               | 159      | 95                          | 0.75                                   | 1.89                    | 5.69                      | 1.43     | 1.67      |       |
| -20 (- 4)                        | 689                        | 174               | 202      | 109                         | 0.85                                   | 2.40                    | 6.35                      | 1.60     | 1.86      |       |
| -15 (+ 5)                        | 856                        | 216               | 251      | 122                         | 0.95                                   | 2.99                    | 7.04                      | 1.78     | 2.06      |       |
| -10 (+14)                        | 1045                       | 263               | 306      | 134                         | 1.04                                   | 3.66                    | 7.82                      | 1.97     | 2.29      |       |

| TEST CONDITIONS:<br>@115V4500RPM |                            | CECOMAF<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)                        | 236                        | 59                | 69       | 70                          | 0.55                                   | 0.90                    | 3.35                      | 0.84     | 0.98      |       |
| -30 (-22)                        | 342                        | 86                | 100      | 85                          | 0.68                                   | 1.30                    | 4.01                      | 1.01     | 1.18      |       |
| -25 (-13)                        | 462                        | 116               | 135      | 100                         | 0.80                                   | 1.76                    | 4.60                      | 1.16     | 1.35      |       |
| -20 (- 4)                        | 596                        | 150               | 175      | 116                         | 0.90                                   | 2.28                    | 5.16                      | 1.30     | 1.51      |       |
| -15 (+ 5)                        | 747                        | 188               | 219      | 130                         | 1.00                                   | 2.86                    | 5.75                      | 1.45     | 1.68      |       |
| -10 (+14)                        | 916                        | 231               | 268      | 143                         | 1.10                                   | 3.51                    | 6.40                      | 1.61     | 1.88      |       |

### F - EXTERNAL CHARACTERISTICS

|                         |                              |      |                          |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate            | European Standard EUEM       |      |                          |
| 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 12° out + 79° up     |      |                          |
| 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 90° up + 24° 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 42° up + 45° to Back |      |                          |
| 3.4 Oil cooler (Copper) | No                           | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                 |      |                          |