

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEM Z9C         |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number        | 513902019       |

### 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                            | 80 to 140 V                       | 80 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 80 to 140 V                       | 80 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                | 9.34           | [cm <sup>3</sup> ] (0.570 cu.in) |
| 2.1 Bore [mm]                 | 26.000         |                                  |
| 2.2 Stroke [mm]               | 17.600         |                                  |
| 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                           | MSP59AMN-6                        |                                    |
| 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             |                                   |                                    |

### 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] |
| 231                              | 58       | 68  | 46                          | 0.68                          | 0.88   | 5.03                      | 1.27                          | 1.47  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| 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] |
| 278                              | 70       | 81  | 56                          | 0.77                          | 1.06   | 5.00                      | 1.26                          | 1.47  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| 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] |
| 429                              | 108      | 126 | 86                          | 1.14                          | 1.64   | 5.01                      | 1.26                          | 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] |
| 637                              | 161      | 187 | 139                         | 1.68                          | 2.43   | 4.58                      | 1.15                          | 1.34  |

### 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)                      | 175               | 44      | 51                          | 30                            | 0.24                                   | 0.56                      | 5.89   | 1.48     | 1.72      |
| -30                              | (-22)                      | 234               | 59      | 68                          | 35                            | 0.28                                   | 0.75                      | 6.58   | 1.66     | 1.93      |
| -25                              | (-13)                      | 305               | 77      | 89                          | 41                            | 0.33                                   | 0.98                      | 7.35   | 1.85     | 2.15      |
| -20                              | (- 4)                      | 390               | 98      | 114                         | 47                            | 0.38                                   | 1.25                      | 8.23   | 2.07     | 2.41      |
| -15                              | (+ 5)                      | 491               | 124     | 144                         | 53                            | 0.42                                   | 1.58                      | 9.29   | 2.34     | 2.72      |
| -10                              | (+14)                      | 610               | 154     | 179                         | 58                            | 0.45                                   | 1.97                      | 10.56  | 2.66     | 3.09      |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V1600RPM |       | 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) | 150                        | 38       | 44  | 31                                     | 0.26                          | 0.52                    | 4.79                      | 1.21      | 1.40  |
| -30                              | (-22) | 204                        | 51       | 60  | 38                                     | 0.31                          | 0.71                    | 5.41                      | 1.36      | 1.58  |
| -25                              | (-13) | 270                        | 68       | 79  | 45                                     | 0.36                          | 0.94                    | 6.01                      | 1.52      | 1.76  |
| -20                              | (- 4) | 348                        | 88       | 102 | 52                                     | 0.41                          | 1.21                    | 6.66                      | 1.68      | 1.95  |
| -15                              | (+ 5) | 441                        | 111      | 129 | 59                                     | 0.46                          | 1.54                    | 7.40                      | 1.86      | 2.17  |
| -10                              | (+14) | 550                        | 138      | 161 | 66                                     | 0.51                          | 1.92                    | 8.28                      | 2.09      | 2.43  |

| TEST CONDITIONS:<br>@115V1600RPM |       | 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) | 123                        | 31       | 36  | 33                                     | 0.27                          | 0.47                    | 3.69                      | 0.93      | 1.08  |
| -30                              | (-22) | 173                        | 44       | 51  | 40                                     | 0.32                          | 0.66                    | 4.37                      | 1.10      | 1.28  |
| -25                              | (-13) | 233                        | 59       | 68  | 47                                     | 0.37                          | 0.89                    | 4.95                      | 1.25      | 1.45  |
| -20                              | (- 4) | 304                        | 77       | 89  | 56                                     | 0.43                          | 1.16                    | 5.50                      | 1.39      | 1.61  |
| -15                              | (+ 5) | 389                        | 98       | 114 | 64                                     | 0.50                          | 1.49                    | 6.05                      | 1.53      | 1.77  |
| -10                              | (+14) | 488                        | 123      | 143 | 73                                     | 0.57                          | 1.87                    | 6.67                      | 1.68      | 1.95  |

| TEST CONDITIONS:<br>@115V2000RPM |       | 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) | 220                        | 55       | 64  | 37                                    | 0.30                          | 0.70                    | 5.93                      | 1.49      | 1.74  |
| -30                              | (-22) | 293                        | 74       | 86  | 44                                    | 0.35                          | 0.94                    | 6.60                      | 1.66      | 1.93  |
| -25                              | (-13) | 381                        | 96       | 112 | 52                                    | 0.41                          | 1.22                    | 7.31                      | 1.84      | 2.14  |
| -20                              | (- 4) | 487                        | 123      | 143 | 60                                    | 0.47                          | 1.57                    | 8.13                      | 2.05      | 2.38  |
| -15                              | (+ 5) | 613                        | 154      | 180 | 67                                    | 0.52                          | 1.97                    | 9.12                      | 2.30      | 2.67  |
| -10                              | (+14) | 761                        | 192      | 223 | 74                                    | 0.57                          | 2.45                    | 10.31                     | 2.60      | 3.02  |

| TEST CONDITIONS:<br>@115V2000RPM |       | 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) | 188                        | 47       | 55  | 39                                     | 0.32                          | 0.65                    | 4.84                      | 1.22      | 1.42  |
| -30                              | (-22) | 255                        | 64       | 75  | 47                                     | 0.38                          | 0.89                    | 5.43                      | 1.37      | 1.59  |
| -25                              | (-13) | 337                        | 85       | 99  | 56                                     | 0.44                          | 1.17                    | 6.01                      | 1.51      | 1.76  |
| -20                              | (- 4) | 434                        | 109      | 127 | 65                                     | 0.51                          | 1.51                    | 6.61                      | 1.67      | 1.94  |
| -15                              | (+ 5) | 550                        | 139      | 161 | 75                                     | 0.58                          | 1.92                    | 7.30                      | 1.84      | 2.14  |
| -10                              | (+14) | 686                        | 173      | 201 | 84                                     | 0.65                          | 2.40                    | 8.13                      | 2.05      | 2.38  |

### 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)                        | 155                        | 39                | 46       | 41                          | 0.33                                   | 0.59                    | 3.73                      | 0.94     | 1.09      |       |
| -30 (-22)                        | 218                        | 55                | 64       | 49                          | 0.39                                   | 0.83                    | 4.40                      | 1.11     | 1.29      |       |
| -25 (-13)                        | 292                        | 74                | 86       | 59                          | 0.46                                   | 1.11                    | 4.97                      | 1.25     | 1.46      |       |
| -20 (- 4)                        | 380                        | 96                | 111      | 70                          | 0.54                                   | 1.45                    | 5.49                      | 1.38     | 1.61      |       |
| -15 (+ 5)                        | 486                        | 122               | 142      | 81                          | 0.62                                   | 1.86                    | 6.03                      | 1.52     | 1.77      |       |
| -10 (+14)                        | 610                        | 154               | 179      | 92                          | 0.70                                   | 2.34                    | 6.64                      | 1.67     | 1.95      |       |

| 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)                        | 330                        | 83                | 97       | 55                          | 0.44                                  | 1.06                    | 5.99                      | 1.51     | 1.76      |       |
| -30 (-22)                        | 440                        | 111               | 129      | 67                          | 0.52                                  | 1.41                    | 6.57                      | 1.66     | 1.93      |       |
| -25 (-13)                        | 572                        | 144               | 168      | 80                          | 0.61                                  | 1.84                    | 7.19                      | 1.81     | 2.11      |       |
| -20 (- 4)                        | 730                        | 184               | 214      | 93                          | 0.71                                  | 2.35                    | 7.89                      | 1.99     | 2.31      |       |
| -15 (+ 5)                        | 918                        | 231               | 269      | 105                         | 0.80                                  | 2.95                    | 8.72                      | 2.20     | 2.56      |       |
| -10 (+14)                        | 1139                       | 287               | 334      | 117                         | 0.88                                  | 3.67                    | 9.76                      | 2.46     | 2.86      |       |

| 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)                        | 283                        | 71                | 83       | 58                          | 0.46                                   | 0.98                    | 4.93                      | 1.24     | 1.44      |       |
| -30 (-22)                        | 384                        | 97                | 113      | 70                          | 0.55                                   | 1.34                    | 5.50                      | 1.39     | 1.61      |       |
| -25 (-13)                        | 506                        | 128               | 148      | 84                          | 0.65                                   | 1.76                    | 6.02                      | 1.52     | 1.76      |       |
| -20 (- 4)                        | 652                        | 164               | 191      | 99                          | 0.76                                   | 2.27                    | 6.54                      | 1.65     | 1.92      |       |
| -15 (+ 5)                        | 825                        | 208               | 242      | 115                         | 0.87                                   | 2.88                    | 7.13                      | 1.80     | 2.09      |       |
| -10 (+14)                        | 1028                       | 259               | 301      | 131                         | 0.98                                   | 3.60                    | 7.83                      | 1.97     | 2.29      |       |

| 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)                        | 235                        | 59                | 69       | 62                          | 0.49                                   | 0.90                    | 3.81                      | 0.96     | 1.12      |       |
| -30 (-22)                        | 328                        | 83                | 96       | 73                          | 0.57                                   | 1.25                    | 4.48                      | 1.13     | 1.31      |       |
| -25 (-13)                        | 439                        | 111               | 129      | 87                          | 0.67                                   | 1.67                    | 5.03                      | 1.27     | 1.47      |       |
| -20 (- 4)                        | 572                        | 144               | 168      | 104                         | 0.79                                   | 2.18                    | 5.50                      | 1.39     | 1.61      |       |
| -15 (+ 5)                        | 729                        | 184               | 214      | 123                         | 0.92                                   | 2.79                    | 5.96                      | 1.50     | 1.75      |       |
| -10 (+14)                        | 914                        | 230               | 268      | 142                         | 1.06                                   | 3.51                    | 6.45                      | 1.62     | 1.89      |       |

### 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)                        | 472                        | 119               | 138      | 85                          | 0.65                                  | 1.51                    | 5.53                      | 1.39     | 1.62      |       |
| -30 (-22)                        | 638                        | 161               | 187      | 105                         | 0.79                                  | 2.05                    | 6.08                      | 1.53     | 1.78      |       |
| -25 (-13)                        | 837                        | 211               | 245      | 126                         | 0.95                                  | 2.69                    | 6.64                      | 1.67     | 1.95      |       |
| -20 (- 4)                        | 1076                       | 271               | 315      | 148                         | 1.11                                  | 3.46                    | 7.28                      | 1.83     | 2.13      |       |
| -15 (+ 5)                        | 1359                       | 343               | 398      | 169                         | 1.26                                  | 4.37                    | 8.04                      | 2.03     | 2.36      |       |
| -10 (+14)                        | 1692                       | 426               | 496      | 189                         | 1.40                                  | 5.46                    | 8.98                      | 2.26     | 2.63      |       |

| 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)                        | 397                        | 100               | 116      | 88                          | 0.67                                   | 1.38                    | 4.52                      | 1.14     | 1.33      |       |
| -30 (-22)                        | 549                        | 138               | 161      | 108                         | 0.82                                   | 1.91                    | 5.07                      | 1.28     | 1.49      |       |
| -25 (-13)                        | 733                        | 185               | 215      | 131                         | 0.99                                   | 2.55                    | 5.56                      | 1.40     | 1.63      |       |
| -20 (- 4)                        | 953                        | 240               | 279      | 157                         | 1.18                                   | 3.32                    | 6.05                      | 1.52     | 1.77      |       |
| -15 (+ 5)                        | 1213                       | 306               | 355      | 184                         | 1.37                                   | 4.24                    | 6.58                      | 1.66     | 1.93      |       |
| -10 (+14)                        | 1520                       | 383               | 445      | 210                         | 1.56                                   | 5.32                    | 7.22                      | 1.82     | 2.11      |       |

| 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)                        | 319                        | 80                | 94       | 92                          | 0.70                                   | 1.22                    | 3.45                      | 0.87     | 1.01      |       |
| -30 (-22)                        | 460                        | 116               | 135      | 111                         | 0.84                                   | 1.75                    | 4.11                      | 1.04     | 1.21      |       |
| -25 (-13)                        | 627                        | 158               | 184      | 135                         | 1.01                                   | 2.39                    | 4.64                      | 1.17     | 1.36      |       |
| -20 (- 4)                        | 827                        | 208               | 242      | 163                         | 1.22                                   | 3.16                    | 5.09                      | 1.28     | 1.49      |       |
| -15 (+ 5)                        | 1064                       | 268               | 312      | 194                         | 1.44                                   | 4.07                    | 5.51                      | 1.39     | 1.61      |       |
| -10 (+14)                        | 1343                       | 338               | 394      | 225                         | 1.67                                   | 5.16                    | 5.96                      | 1.50     | 1.75      |       |

### F - EXTERNAL CHARACTERISTICS

|                         |                               |      |                          |
|-------------------------|-------------------------------|------|--------------------------|
| 1 Base plate            | Universal EG/F/AMEM version 2 |      |                          |
| 2 Tray holder           | No                            |      |                          |
| 3 Connectors            |                               |      |                          |
| 3.1 SUCTION             | 6.5 +0.12/-0.08               | [mm] | (0.256" +0.005"/-0.003") |
| 3.1.1 Material          | Copper                        |      |                          |
| 3.1.2 Shape             | Straight                      |      |                          |
| 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             | Straight                      |      |                          |
| 3.3 PROCESS             | 6.5 +0.12/-0.08               | [mm] | (0.256" +0.005"/-0.003") |
| 3.3.1 Material          | Copper                        |      |                          |
| 3.3.2 Shape             | Straight                      |      |                          |
| 3.4 Oil cooler (Copper) | No                            | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                  |      |                          |