

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEM Z9C         |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number        | 513902003       |

### 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                            | 187 to 255 V                      | 187 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 187 to 255 V                      | 187 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      | 1/5            | [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                          | VCC32456XXXX                      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | MRA58142-6                        |                                    |
| 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)     | 2.10/2.10                         | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (53/15 Hz)  | 2.10/2.10                         | [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 - VDE                   |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@220V1600RPM |          |     | 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] |
| 247                              | 62       | 72  | 51                          | 0.41                          | 0.94   | 4.87                      | 1.23                          | 1.43  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@220V2000RPM |          |     | 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] |
| 295                              | 74       | 86  | 61                          | 0.48                          | 1.12   | 4.88                      | 1.23                          | 1.43  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@220V3000RPM |          |     | 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] |
| 436                              | 110      | 128 | 89                          | 0.70                          | 1.66   | 4.88                      | 1.23                          | 1.43  |

|                                  |          |     |                             |                               |  |                           |                               |       |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| TEST CONDITIONS:<br>@220V4500RPM |          |     | 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] |
| 583                              | 147      | 171 | 130                         | 1.00                          | 2.22   | 4.50                      | 1.13                          | 1.32  |

### E - PERFORMANCE - CURVES

|                                  |                            |                   |         |                             |                               |  |                           |        |          |           |
|----------------------------------|----------------------------|-------------------|---------|-----------------------------|-------------------------------|--|---------------------------|--------|----------|-----------|
| TEST CONDITIONS:<br>@220V1600RPM |                            | 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>@220V1600RPM |       | 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>@220V1600RPM |       | 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>@220V2000RPM |       | 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>@220V2000RPM |       | 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:        |                  | CECOMAF  |     |                   | (Condensing temperature 55°C (+131°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V2000RPM            |                  | 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)               | 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:        |                  | CECOMAF  |     |                   | (Condensing temperature 35°C (+95°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @220V3000RPM            |                  | 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)               | 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:        |                  | CECOMAF  |     |                   | (Condensing temperature 45°C (+113°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM            |                  | 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)               | 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:        |                  | CECOMAF  |     |                   | (Condensing temperature 55°C (+131°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM            |                  | 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)               | 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>@220V4500RPM |                            | 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)                      | 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>@220V4500RPM |                            | 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] |
| -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>@220V4500RPM |                            | 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] |
| -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            | 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 42° up + 45° to Back   |      |                          |
| 3.2 DISCHARGE           | 5.1 +0.10/+0.00                | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material          | Copper                         |      |                          |
| 3.2.2 Shape             | Slanted parallel BP+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                   |      |                          |