

### COMPRESSOR DEFINITION

|                           |                        |
|---------------------------|------------------------|
| Designation               | <b>VEM C9C</b>         |
| Nominal Voltage/Frequency | <b>230 V 40-150 Hz</b> |
| Engineering Number        | <b>513906074</b>       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |                                   |                                   |             |
|------------------------------------|-----------------------------------|-----------------------------------|-------------|
| 1 Type                             | Hermetic reciprocating compressor |                                   |             |
| 2 Refrigerant                      | R-600a                            |                                   |             |
| 3 Nominal voltage and frequency    | 230 / 40-150                      | [ 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                | 9.04           | [cm <sup>3</sup> ] (0.552 cu.in) |
| 2.1 Bore [mm]                 | 24.000         |                                  |
| 2.2 Stroke [mm]               | 20.000         |                                  |
| 3 Lubricant charge            | 210            | [ml] (7.10 fl.oz.)               |
| 3.1 Lubricants approved       |                |                                  |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 |                                  |
| 4 Weight (with oil charge)    | 8              | [kg] (17.64 lb.)                 |
| 5 Nitrogen charge             | -              | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|  |                                   |                                    |
|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 40-150 Hz 3 ~ (Three phase) |                                    |
| 2 Starting device type                       | Inverter                          |                                    |
| 2.1 Starting device                          | CF02D01 M 0.0 X/VCC32456XXXX      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | VCC3 115624N01 SH3.2              |                                    |
| 6 Start winding resistance                   | 8.10                              | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 8.10                              | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (40/150 Hz)    | 2.10                              | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | 2.10                              | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (40/150 Hz)  | -                                 | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CCC - UL - VDE                    |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|   |          |     |                                    |                               |   |   |           |       |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| TEST CONDITIONS:<br><b>@220V1200RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-25°C (-13°F)</b><br><b>55°C (131°F)</b> |           |       |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%        | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 7%                   |           |       |
| [Btu/h]                                 | [kcal/h] | [W] | [W]                                | [A]                           | [kg/h]  | [Btu/Wh]                                    | [kcal/Wh] | [W/W] |
| 160                                     | 40       | 47  | 33                                 | 0.57                          | 0.61  | 4.89  | 1.23      | 1.43  |

|   |          |     |                                    |                               |   |   |           |       |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| TEST CONDITIONS:<br><b>@220V1600RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-25°C (-13°F)</b><br><b>55°C (131°F)</b> |           |       |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%        | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 7%                   |           |       |
| [Btu/h]                                 | [kcal/h] | [W] | [W]                                | [A]                           | [kg/h]  | [Btu/Wh]                                    | [kcal/Wh] | [W/W] |
| 218                                     | 55       | 64  | 42                                 | 0.71                          | 0.83  | 5.17  | 1.30      | 1.51  |

|   |          |     |                                    |                               |   |   |           |       |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| TEST CONDITIONS:<br><b>@220V2000RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-25°C (-13°F)</b><br><b>55°C (131°F)</b> |           |       |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%        | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 7%                   |           |       |
| [Btu/h]                                 | [kcal/h] | [W] | [W]                                | [A]                           | [kg/h]  | [Btu/Wh]                                    | [kcal/Wh] | [W/W] |
| 276                                     | 70       | 81  | 53                                 | 0.88                          | 1.05  | 5.23  | 1.32      | 1.53  |

|   |          |     |                                    |                               |   |   |           |       |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| TEST CONDITIONS:<br><b>@220V3000RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-25°C (-13°F)</b><br><b>55°C (131°F)</b> |           |       |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%        | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 7%                   |           |       |
| [Btu/h]                                 | [kcal/h] | [W] | [W]                                | [A]                           | [kg/h]  | [Btu/Wh]                                    | [kcal/Wh] | [W/W] |
| 411                                     | 104      | 120 | 80                                 | 1.24                          | 1.57  | 5.16  | 1.30      | 1.51  |

|   |          |     |                                    |                               |   |   |           |       |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| TEST CONDITIONS:<br><b>@220V4500RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-25°C (-13°F)</b><br><b>55°C (131°F)</b> |           |       |
| Cooling capacity<br>+/- 5%              |          |     | Power consumption<br>+/- 5%        | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5%                             | EFFICIENCY RATE<br>+/- 7%                   |           |       |
| [Btu/h]                                 | [kcal/h] | [W] | [W]                                | [A]                           | [kg/h]  | [Btu/Wh]                                    | [kcal/Wh] | [W/W] |
| 553                                     | 139      | 162 | 112                                | 0.89                          | 2.11  | 4.95  | 1.25      | 1.45  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V1200RPM |                            | 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)                        | 119                        | 30                | 35       | 20                          | 0.38                                   | 0.38                    | 5.84                      | 1.47     | 1.71      |       |
| -30 (-22)                        | 163                        | 41                | 48       | 24                          | 0.52                                   | 0.52                    | 6.76                      | 1.70     | 1.98      |       |
| -25 (-13)                        | 215                        | 54                | 63       | 28                          | 0.69                                   | 0.69                    | 7.80                      | 1.97     | 2.29      |       |
| -20 (- 4)                        | 277                        | 70                | 81       | 31                          | 0.89                                   | 0.89                    | 9.01                      | 2.27     | 2.64      |       |
| -15 (+ 5)                        | 351                        | 89                | 103      | 34                          | 1.13                                   | 1.13                    | 10.44                     | 2.63     | 3.06      |       |
| -10 (+14)                        | 439                        | 111               | 129      | 36                          | 1.41                                   | 1.41                    | 12.12                     | 3.05     | 3.55      |       |

| TEST CONDITIONS:<br>@220V1200RPM |                            | 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)                        | 98                         | 25                | 29       | 21                          | 0.34                                    | 0.34                    | 4.63                      | 1.17     | 1.36      |       |
| -30 (-22)                        | 138                        | 35                | 41       | 26                          | 0.48                                    | 0.48                    | 5.35                      | 1.35     | 1.57      |       |
| -25 (-13)                        | 186                        | 47                | 55       | 30                          | 0.65                                    | 0.65                    | 6.12                      | 1.54     | 1.79      |       |
| -20 (- 4)                        | 244                        | 61                | 71       | 35                          | 0.85                                    | 0.85                    | 6.99                      | 1.76     | 2.05      |       |
| -15 (+ 5)                        | 312                        | 79                | 91       | 39                          | 1.09                                    | 1.09                    | 8.00                      | 2.02     | 2.34      |       |
| -10 (+14)                        | 392                        | 99                | 115      | 43                          | 1.37                                    | 1.37                    | 9.20                      | 2.32     | 2.70      |       |

| TEST CONDITIONS:<br>@220V1200RPM |                            | 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)                        | 77                         | 19                | 23       | 21                          | 0.29                                    | 0.29                    | 3.59                      | 0.90     | 1.05      |       |
| -30 (-22)                        | 114                        | 29                | 33       | 27                          | 0.43                                    | 0.43                    | 4.26                      | 1.07     | 1.25      |       |
| -25 (-13)                        | 158                        | 40                | 46       | 32                          | 0.60                                    | 0.60                    | 4.91                      | 1.24     | 1.44      |       |
| -20 (- 4)                        | 210                        | 53                | 62       | 38                          | 0.80                                    | 0.80                    | 5.57                      | 1.40     | 1.63      |       |
| -15 (+ 5)                        | 272                        | 69                | 80       | 43                          | 1.04                                    | 1.04                    | 6.31                      | 1.59     | 1.85      |       |
| -10 (+14)                        | 345                        | 87                | 101      | 48                          | 1.32                                    | 1.32                    | 7.16                      | 1.81     | 2.10      |       |

| 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] | [W/W] |
| -35 (-31)                        | 165                        | 42                | 48       | 26                          | 0.20                                   | 0.53                    | 6.23                      | 1.57     | 1.83      |       |
| -30 (-22)                        | 223                        | 56                | 65       | 31                          | 0.24                                   | 0.72                    | 7.08                      | 1.78     | 2.08      |       |
| -25 (-13)                        | 293                        | 74                | 86       | 36                          | 0.28                                   | 0.94                    | 8.05                      | 2.03     | 2.36      |       |
| -20 (- 4)                        | 377                        | 95                | 111      | 41                          | 0.32                                   | 1.21                    | 9.18                      | 2.31     | 2.69      |       |
| -15 (+ 5)                        | 477                        | 120               | 140      | 45                          | 0.35                                   | 1.53                    | 10.52                     | 2.65     | 3.08      |       |
| -10 (+14)                        | 594                        | 150               | 174      | 49                          | 0.38                                   | 1.92                    | 12.11                     | 3.05     | 3.55      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:        |       | CECOMAF          |          |     | (Condensing temperature 45°C (+113°F)) |                     |               |                 |           |       |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @220V1600RPM            |       | Static           |          |     |  |                     |               |                 |           |       |
| Evaporating temperature |       | Cooling capacity |          |     | Power consumption                      | Current consumption | Gas flow rate | EFFICIENCY RATE |           |       |
|                         |       | +/- 5%           |          |     | +/- 5%                                 | +/- 5%              | +/- 5%        | +/- 7%          |           |       |
| °C                      | (°F)  | [Btu/h]          | [kcal/h] | [W] | [W]                                    | [A]                 | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |
| -35                     | (-31) | 138              | 35       | 40  | 28                                     | 0.21                | 0.48          | 4.97            | 1.25      | 1.46  |
| -30                     | (-22) | 192              | 48       | 56  | 34                                     | 0.25                | 0.67          | 5.69            | 1.43      | 1.67  |
| -25                     | (-13) | 256              | 65       | 75  | 40                                     | 0.30                | 0.89          | 6.43            | 1.62      | 1.89  |
| -20                     | (- 4) | 334              | 84       | 98  | 46                                     | 0.35                | 1.16          | 7.26            | 1.83      | 2.13  |
| -15                     | (+ 5) | 426              | 107      | 125 | 52                                     | 0.39                | 1.49          | 8.21            | 2.07      | 2.41  |
| -10                     | (+14) | 533              | 134      | 156 | 57                                     | 0.43                | 1.87          | 9.33            | 2.35      | 2.73  |

| TEST CONDITIONS:        |       | CECOMAF          |          |     | (Condensing temperature 55°C (+131°F)) |                     |               |                 |           |       |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @220V1600RPM            |       | Static           |          |     |  |                     |               |                 |           |       |
| Evaporating temperature |       | Cooling capacity |          |     | Power consumption                      | Current consumption | Gas flow rate | EFFICIENCY RATE |           |       |
|                         |       | +/- 5%           |          |     | +/- 5%                                 | +/- 5%              | +/- 5%        | +/- 7%          |           |       |
| °C                      | (°F)  | [Btu/h]          | [kcal/h] | [W] | [W]                                    | [A]                 | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |
| -35                     | (-31) | 110              | 28       | 32  | 29                                     | 0.22                | 0.42          | 3.83            | 0.97      | 1.12  |
| -30                     | (-22) | 160              | 40       | 47  | 35                                     | 0.27                | 0.61          | 4.55            | 1.15      | 1.33  |
| -25                     | (-13) | 219              | 55       | 64  | 42                                     | 0.32                | 0.83          | 5.22            | 1.32      | 1.53  |
| -20                     | (- 4) | 289              | 73       | 85  | 49                                     | 0.37                | 1.10          | 5.88            | 1.48      | 1.72  |
| -15                     | (+ 5) | 373              | 94       | 109 | 57                                     | 0.43                | 1.43          | 6.59            | 1.66      | 1.93  |
| -10                     | (+14) | 471              | 119      | 138 | 64                                     | 0.49                | 1.81          | 7.37            | 1.86      | 2.16  |

| TEST CONDITIONS:        |       | CECOMAF          |          |     | (Condensing temperature 35°C (+95°F)) |                     |               |                 |           |       |
|-------------------------|-------|------------------|----------|-----|---------------------------------------|---------------------|---------------|-----------------|-----------|-------|
| @220V2000RPM            |       | Static           |          |     |                                       |                     |               |                 |           |       |
| Evaporating temperature |       | Cooling capacity |          |     | Power consumption                     | Current consumption | Gas flow rate | EFFICIENCY RATE |           |       |
|                         |       | +/- 5%           |          |     | +/- 5%                                | +/- 5%              | +/- 5%        | +/- 7%          |           |       |
| °C                      | (°F)  | [Btu/h]          | [kcal/h] | [W] | [W]                                   | [A]                 | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |
| -35                     | (-31) | 208              | 52       | 61  | 33                                    | 0.25                | 0.67          | 6.30            | 1.59      | 1.85  |
| -30                     | (-22) | 280              | 71       | 82  | 39                                    | 0.30                | 0.90          | 7.14            | 1.80      | 2.09  |
| -25                     | (-13) | 368              | 93       | 108 | 46                                    | 0.35                | 1.18          | 8.07            | 2.03      | 2.36  |
| -20                     | (- 4) | 472              | 119      | 138 | 52                                    | 0.40                | 1.52          | 9.15            | 2.30      | 2.68  |
| -15                     | (+ 5) | 596              | 150      | 175 | 57                                    | 0.44                | 1.92          | 10.42           | 2.63      | 3.05  |
| -10                     | (+14) | 742              | 187      | 218 | 62                                    | 0.47                | 2.39          | 11.96           | 3.01      | 3.50  |

| TEST CONDITIONS:        |       | CECOMAF          |          |     | (Condensing temperature 45°C (+113°F)) |                     |               |                 |           |       |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @220V2000RPM            |       | Static           |          |     |  |                     |               |                 |           |       |
| Evaporating temperature |       | Cooling capacity |          |     | Power consumption                      | Current consumption | Gas flow rate | EFFICIENCY RATE |           |       |
|                         |       | +/- 5%           |          |     | +/- 5%                                 | +/- 5%              | +/- 5%        | +/- 7%          |           |       |
| °C                      | (°F)  | [Btu/h]          | [kcal/h] | [W] | [W]                                    | [A]                 | [kg/h]        | [Btu/Wh]        | [kcal/Wh] | [W/W] |
| -35                     | (-31) | 175              | 44       | 51  | 35                                     | 0.26                | 0.61          | 5.07            | 1.28      | 1.48  |
| -30                     | (-22) | 242              | 61       | 71  | 42                                     | 0.32                | 0.84          | 5.78            | 1.46      | 1.69  |
| -25                     | (-13) | 323              | 81       | 95  | 49                                     | 0.38                | 1.12          | 6.50            | 1.64      | 1.90  |
| -20                     | (- 4) | 419              | 105      | 123 | 57                                     | 0.44                | 1.46          | 7.28            | 1.84      | 2.13  |
| -15                     | (+ 5) | 533              | 134      | 156 | 65                                     | 0.49                | 1.86          | 8.18            | 2.06      | 2.40  |
| -10                     | (+14) | 667              | 168      | 195 | 72                                     | 0.55                | 2.34          | 9.26            | 2.33      | 2.71  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V2000RPM |                            | 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]  |
| -35                              | (-31)                      | 141               | 35      | 41                          | 36                                     | 0.27                    | 0.54                      | 3.89 | 0.98 | 1.14 |
| -30                              | (-22)                      | 202               | 51      | 59                          | 44                                     | 0.33                    | 0.77                      | 4.63 | 1.17 | 1.36 |
| -25                              | (-13)                      | 276               | 70      | 81                          | 52                                     | 0.40                    | 1.05                      | 5.29 | 1.33 | 1.55 |
| -20                              | (- 4)                      | 363               | 92      | 106                         | 62                                     | 0.47                    | 1.39                      | 5.93 | 1.49 | 1.74 |
| -15                              | (+ 5)                      | 467               | 118     | 137                         | 71                                     | 0.54                    | 1.79                      | 6.60 | 1.66 | 1.93 |
| -10                              | (+14)                      | 590               | 149     | 173                         | 80                                     | 0.61                    | 2.26                      | 7.35 | 1.85 | 2.16 |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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]  |
| -35                              | (-31)                      | 307               | 77      | 90                          | 50                                    | 0.38                    | 0.98                      | 6.11  | 1.54 | 1.79 |
| -30                              | (-22)                      | 416               | 105     | 122                         | 60                                    | 0.46                    | 1.33                      | 6.87  | 1.73 | 2.01 |
| -25                              | (-13)                      | 548               | 138     | 160                         | 71                                    | 0.54                    | 1.76                      | 7.73  | 1.95 | 2.27 |
| -20                              | (- 4)                      | 706               | 178     | 207                         | 81                                    | 0.62                    | 2.27                      | 8.74  | 2.20 | 2.56 |
| -15                              | (+ 5)                      | 893               | 225     | 262                         | 90                                    | 0.69                    | 2.87                      | 9.95  | 2.51 | 2.92 |
| -10                              | (+14)                      | 1113              | 281     | 326                         | 98                                    | 0.75                    | 3.59                      | 11.41 | 2.87 | 3.34 |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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]  |
| -35                              | (-31)                      | 256               | 64      | 75                          | 52                                     | 0.39                    | 0.89                      | 4.98 | 1.26 | 1.46 |
| -30                              | (-22)                      | 357               | 90      | 105                         | 64                                     | 0.48                    | 1.24                      | 5.61 | 1.41 | 1.64 |
| -25                              | (-13)                      | 478               | 120     | 140                         | 76                                     | 0.58                    | 1.66                      | 6.26 | 1.58 | 1.84 |
| -20                              | (- 4)                      | 623               | 157     | 183                         | 89                                     | 0.68                    | 2.17                      | 6.99 | 1.76 | 2.05 |
| -15                              | (+ 5)                      | 796               | 201     | 233                         | 101                                    | 0.77                    | 2.78                      | 7.84 | 1.98 | 2.30 |
| -10                              | (+14)                      | 998               | 252     | 293                         | 113                                    | 0.86                    | 3.50                      | 8.85 | 2.23 | 2.59 |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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]  |
| -35                              | (-31)                      | 203               | 51      | 60                          | 52                                     | 0.39                    | 0.77                      | 3.92 | 0.99 | 1.15 |
| -30                              | (-22)                      | 296               | 74      | 87                          | 65                                     | 0.50                    | 1.12                      | 4.55 | 1.15 | 1.33 |
| -25                              | (-13)                      | 406               | 102     | 119                         | 79                                     | 0.61                    | 1.55                      | 5.13 | 1.29 | 1.50 |
| -20                              | (- 4)                      | 538               | 136     | 158                         | 95                                     | 0.72                    | 2.06                      | 5.71 | 1.44 | 1.67 |
| -15                              | (+ 5)                      | 695               | 175     | 204                         | 110                                    | 0.84                    | 2.66                      | 6.34 | 1.60 | 1.86 |
| -10                              | (+14)                      | 880               | 222     | 258                         | 125                                    | 0.95                    | 3.38                      | 7.05 | 1.78 | 2.07 |

### 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] | [W/W] |
| -35 (-31)                        | 447                        | 113               | 131      | 78                          | 0.58                                  | 1.43                    | 5.74                      | 1.45     | 1.68      |       |
| -30 (-22)                        | 591                        | 149               | 173      | 97                          | 0.68                                  | 1.90                    | 6.04                      | 1.52     | 1.77      |       |
| -25 (-13)                        | 769                        | 194               | 225      | 109                         | 0.80                                  | 2.47                    | 7.07                      | 1.78     | 2.07      |       |
| -20 (- 4)                        | 983                        | 248               | 288      | 116                         | 0.91                                  | 3.16                    | 8.49                      | 2.14     | 2.49      |       |
| -15 (+ 5)                        | 1237                       | 312               | 362      | 124                         | 1.02                                  | 3.98                    | 9.95                      | 2.51     | 2.92      |       |
| -10 (+14)                        | 1533                       | 386               | 449      | 138                         | 1.12                                  | 4.95                    | 11.11                     | 2.80     | 3.25      |       |

| 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] | [W/W] |
| -35 (-31)                        | 387                        | 97                | 113      | 78                          | 0.62                                   | 1.34                    | 4.99                      | 1.26     | 1.46      |       |
| -30 (-22)                        | 518                        | 131               | 152      | 97                          | 0.74                                   | 1.80                    | 5.34                      | 1.35     | 1.57      |       |
| -25 (-13)                        | 681                        | 172               | 199      | 108                         | 0.87                                   | 2.37                    | 6.36                      | 1.60     | 1.86      |       |
| -20 (- 4)                        | 877                        | 221               | 257      | 116                         | 1.01                                   | 3.06                    | 7.70                      | 1.94     | 2.26      |       |
| -15 (+ 5)                        | 1111                       | 280               | 326      | 127                         | 1.15                                   | 3.88                    | 9.00                      | 2.27     | 2.64      |       |
| -10 (+14)                        | 1385                       | 349               | 406      | 144                         | 1.28                                   | 4.85                    | 9.92                      | 2.50     | 2.91      |       |

| 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] | [W/W] |
| -35 (-31)                        | 320                        | 81                | 94       | 86                          | 0.66                                   | 1.22                    | 3.68                      | 0.93     | 1.08      |       |
| -30 (-22)                        | 439                        | 111               | 129      | 107                         | 0.78                                   | 1.67                    | 3.90                      | 0.98     | 1.14      |       |
| -25 (-13)                        | 586                        | 148               | 172      | 123                         | 0.92                                   | 2.23                    | 4.72                      | 1.19     | 1.38      |       |
| -20 (- 4)                        | 766                        | 193               | 224      | 136                         | 1.08                                   | 2.92                    | 5.77                      | 1.46     | 1.69      |       |
| -15 (+ 5)                        | 979                        | 247               | 287      | 153                         | 1.25                                   | 3.75                    | 6.73                      | 1.69     | 1.97      |       |
| -10 (+14)                        | 1231                       | 310               | 361      | 177                         | 1.41                                   | 4.73                    | 7.22                      | 1.82     | 2.12      |       |

### F - EXTERNAL CHARACTERISTICS

|                         |                              |      |                          |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate            | European Standard EUEM       |      |                          |
| 2 Tray holder           | No                           |      |                          |
| 3 Connectors            |                              |      |                          |
| 3.1 SUCTION             | 6.2 +0.05/+0.05              | [mm] | (0.244" +0.002"/+0.002") |
| 3.1.1 Material          | Copper                       |      |                          |
| 3.1.2 Shape             | Slanted 40° up + 0° to Back  |      |                          |
| 3.2 DISCHARGE           | 4.2 +0.10/-0.05              | [mm] | (0.165" +0.004"/-0.002") |
| 3.2.1 Material          | Copper                       |      |                          |
| 3.2.2 Shape             | Slanted 0° up + 24° to Back  |      |                          |
| 3.3 PROCESS             | 6.2 +0.05/+0.05              | [mm] | (0.244" +0.002"/+0.002") |
| 3.3.1 Material          | Copper                       |      |                          |
| 3.3.2 Shape             | Slanted 40° up + 45° to Back |      |                          |
| 3.4 Oil cooler (Copper) | No                           | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                 |      |                          |