

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEG Z11C        |
| Nominal Voltage/Frequency | 230 V 53-120 Hz |
| Engineering Number        | 513802012       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |                                   |                                   |             |
|------------------------------------|-----------------------------------|-----------------------------------|-------------|
| 1 Type                             | Hermetic reciprocating compressor |                                   |             |
| 2 Refrigerant                      | R-600a                            |                                   |             |
| 3 Nominal voltage and frequency    | 230 / 53-120                      | [ 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                            | 85 to 140 V                       | 85 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 85 to 140 V                       | 85 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      | 1/4            | [hp]                             |
| 2 Displacement                | 11.14          | [cm <sup>3</sup> ] (0.680 cu.in) |
| 2.1 Bore [mm]                 | 26.000         |                                  |
| 2.2 Stroke [mm]               | 21.000         |                                  |
| 3 Lubricant charge            | 430            | [ml] (14.54 fl.oz.)              |
| 3.1 Lubricants approved       |                |                                  |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 |                                  |
| 4 Weight (with oil charge)    | 10.99          | [kg] (24.23 lb.)                 |
| 5 Nitrogen charge             | -              | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|                                              |                                   |                                    |
|----------------------------------------------|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 53-120 Hz 3 ~ (Three phase) |                                    |
| 2 Starting device type                       | Inverter                          |                                    |
| 2.1 Starting device                          | VCC31156XXXX                      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | VCC31156XXXXX                     |                                    |
| 6 Start winding resistance                   | 8.06                              | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 8.06                              | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (50/60 Hz)     | -                                 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50/60 Hz)  | -                                 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50/60 Hz)   | -                                 | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CE - UKCA - UL - VDE              |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                                         |          |     |                                     |                               |                                                     |                                                      |           |       |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|-------|
| TEST CONDITIONS:<br><b>@100V1600RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 388                                     | 98       | 114 | 60                                  | 1.06                          | 1.22                                                | 6.51                                                 | 1.64      | 1.91  |

|                                         |          |     |                                     |                               |                                                     |                                                      |           |       |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|-------|
| TEST CONDITIONS:<br><b>@100V2000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 449                                     | 113      | 132 | 70                                  | 1.28                          | 1.41                                                | 6.39                                                 | 1.61      | 1.87  |

|                                         |          |     |                                     |                               |                                                     |                                                      |           |       |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|------------------------------------------------------|-----------|-------|
| TEST CONDITIONS:<br><b>@100V3600RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Static</b> |                               | Evaporating temperature<br>(Condensing temperature) | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 849                                     | 214      | 249 | 134                                 | 2.31                          | 2.67                                                | 6.33                                                 | 1.60      | 1.85  |

### E - PERFORMANCE - CURVES

|                                         |                            |                                  |         |                             |                               |                                               |                           |        |          |           |
|-----------------------------------------|----------------------------|----------------------------------|---------|-----------------------------|-------------------------------|-----------------------------------------------|---------------------------|--------|----------|-----------|
| TEST CONDITIONS:<br><b>@100V1600RPM</b> |                            | <b>ASHRAE32</b><br><b>Static</b> |         |                             |                               | (Condensing temperature <b>35°C (+95°F)</b> ) |                           |        |          |           |
| 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)                      | 236                              | 59      | 69                          | 36                            | 0.61                                          | 0.74                      | 6.62   | 1.67     | 1.94      |
| -30                                     | (-22)                      | 293                              | 74      | 86                          | 42                            | 0.69                                          | 0.92                      | 7.13   | 1.80     | 2.09      |
| -25                                     | (-13)                      | 371                              | 94      | 109                         | 47                            | 0.79                                          | 1.16                      | 7.91   | 1.99     | 2.32      |
| -20                                     | (- 4)                      | 480                              | 121     | 141                         | 54                            | 0.89                                          | 1.51                      | 8.94   | 2.25     | 2.62      |
| -15                                     | (+ 5)                      | 628                              | 158     | 184                         | 61                            | 1.00                                          | 1.98                      | 10.22  | 2.58     | 3.00      |
| -10                                     | (+14)                      | 826                              | 208     | 242                         | 70                            | 1.09                                          | 2.61                      | 11.73  | 2.96     | 3.44      |

|                                         |                            |                                  |         |                             |                               |                                                |                           |        |          |           |
|-----------------------------------------|----------------------------|----------------------------------|---------|-----------------------------|-------------------------------|------------------------------------------------|---------------------------|--------|----------|-----------|
| TEST CONDITIONS:<br><b>@100V1600RPM</b> |                            | <b>ASHRAE32</b><br><b>Static</b> |         |                             |                               | (Condensing temperature <b>45°C (+113°F)</b> ) |                           |        |          |           |
| 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)                      | 230                              | 58      | 68                          | 39                            | 0.64                                           | 0.72                      | 5.88   | 1.48     | 1.72      |
| -30                                     | (-22)                      | 292                              | 73      | 85                          | 46                            | 0.73                                           | 0.91                      | 6.32   | 1.59     | 1.85      |
| -25                                     | (-13)                      | 367                              | 92      | 107                         | 53                            | 0.84                                           | 1.15                      | 7.00   | 1.76     | 2.05      |
| -20                                     | (- 4)                      | 465                              | 117     | 136                         | 59                            | 0.97                                           | 1.46                      | 7.88   | 1.99     | 2.31      |
| -15                                     | (+ 5)                      | 597                              | 150     | 175                         | 67                            | 1.10                                           | 1.88                      | 8.96   | 2.26     | 2.63      |
| -10                                     | (+14)                      | 771                              | 194     | 226                         | 75                            | 1.21                                           | 2.43                      | 10.22  | 2.57     | 2.99      |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@100V1600RPM |                            | ASHRAE32<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)                        | 215                        | 54                 | 63       | 41                          | 0.65                                   | 0.67                    | 5.28                      | 1.33     | 1.55      |       |
| -30 (-22)                        | 284                        | 72                 | 83       | 49                          | 0.75                                   | 0.89                    | 5.70                      | 1.44     | 1.67      |       |
| -25 (-13)                        | 360                        | 91                 | 106      | 57                          | 0.89                                   | 1.13                    | 6.31                      | 1.59     | 1.85      |       |
| -20 (- 4)                        | 453                        | 114                | 133      | 64                          | 1.04                                   | 1.42                    | 7.08                      | 1.78     | 2.07      |       |
| -15 (+ 5)                        | 572                        | 144                | 168      | 72                          | 1.20                                   | 1.80                    | 8.00                      | 2.02     | 2.34      |       |
| -10 (+14)                        | 727                        | 183                | 213      | 80                          | 1.34                                   | 2.29                    | 9.05                      | 2.28     | 2.65      |       |

| TEST CONDITIONS:<br>@100V1600RPM |                            | ASHRAE32<br>Static |          |                             | (Condensing temperature 65°C (+149°F)) |                         |                           |          |           |       |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|----------------------------------------|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature          | Cooling capacity<br>+/- 5% |                    |          | Power consumption<br>+/- 5% | Current consumption<br>+/- 5%          | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |          |           |       |
|                                  | °C (°F)                    | [Btu/h]            | [kcal/h] | [W]                         | [W]                                    | [A]                     | [kg/h]                    | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31)                        | 187                        | 47                 | 55       | 40                          | 0.65                                   | 0.59                    | 4.72                      | 1.19     | 1.38      |       |
| -30 (-22)                        | 269                        | 68                 | 79       | 51                          | 0.79                                   | 0.84                    | 5.16                      | 1.30     | 1.51      |       |
| -25 (-13)                        | 350                        | 88                 | 103      | 60                          | 0.95                                   | 1.10                    | 5.73                      | 1.44     | 1.68      |       |
| -20 (- 4)                        | 441                        | 111                | 129      | 69                          | 1.13                                   | 1.39                    | 6.43                      | 1.62     | 1.88      |       |
| -15 (+ 5)                        | 552                        | 139                | 162      | 77                          | 1.31                                   | 1.74                    | 7.23                      | 1.82     | 2.12      |       |
| -10 (+14)                        | 691                        | 174                | 203      | 86                          | 1.49                                   | 2.18                    | 8.12                      | 2.05     | 2.38      |       |

| TEST CONDITIONS:<br>@100V2000RPM |                            | ASHRAE32<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)                        | 287                        | 72                 | 84       | 44                          | 0.72                                  | 0.90                    | 6.53                      | 1.65     | 1.91      |       |
| -30 (-22)                        | 360                        | 91                 | 105      | 51                          | 0.85                                  | 1.13                    | 7.01                      | 1.77     | 2.06      |       |
| -25 (-13)                        | 462                        | 116                | 135      | 59                          | 0.98                                  | 1.45                    | 7.82                      | 1.97     | 2.29      |       |
| -20 (- 4)                        | 594                        | 150                | 174      | 67                          | 1.11                                  | 1.87                    | 8.91                      | 2.24     | 2.61      |       |
| -15 (+ 5)                        | 755                        | 190                | 221      | 74                          | 1.22                                  | 2.38                    | 10.24                     | 2.58     | 3.00      |       |
| -10 (+14)                        | 946                        | 238                | 277      | 81                          | 1.32                                  | 2.98                    | 11.78                     | 2.97     | 3.45      |       |

| TEST CONDITIONS:<br>@100V2000RPM |                            | ASHRAE32<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)                        | 266                        | 67                 | 78       | 47                          | 0.74                                   | 0.83                    | 5.73                      | 1.44     | 1.68      |       |
| -30 (-22)                        | 339                        | 85                 | 99       | 55                          | 0.87                                   | 1.06                    | 6.18                      | 1.56     | 1.81      |       |
| -25 (-13)                        | 442                        | 111                | 129      | 64                          | 1.01                                   | 1.39                    | 6.91                      | 1.74     | 2.02      |       |
| -20 (- 4)                        | 574                        | 145                | 168      | 72                          | 1.16                                   | 1.80                    | 7.87                      | 1.98     | 2.31      |       |
| -15 (+ 5)                        | 735                        | 185                | 215      | 81                          | 1.30                                   | 2.31                    | 9.03                      | 2.28     | 2.65      |       |
| -10 (+14)                        | 926                        | 233                | 271      | 90                          | 1.44                                   | 2.92                    | 10.35                     | 2.61     | 3.03      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@100V2000RPM |                            | ASHRAE32<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)                        | 256                        | 65                 | 75       | 49                          | 0.77                                   | 0.80                    | 5.29                      | 1.33     | 1.55      |       |
| -30 (-22)                        | 326                        | 82                 | 96       | 57                          | 0.90                                   | 1.02                    | 5.70                      | 1.44     | 1.67      |       |
| -25 (-13)                        | 425                        | 107                | 125      | 67                          | 1.04                                   | 1.33                    | 6.34                      | 1.60     | 1.86      |       |
| -20 (- 4)                        | 554                        | 140                | 162      | 77                          | 1.20                                   | 1.74                    | 7.16                      | 1.80     | 2.10      |       |
| -15 (+ 5)                        | 712                        | 179                | 209      | 87                          | 1.37                                   | 2.24                    | 8.13                      | 2.05     | 2.38      |       |
| -10 (+14)                        | 899                        | 226                | 263      | 98                          | 1.54                                   | 2.84                    | 9.20                      | 2.32     | 2.70      |       |

| TEST CONDITIONS:<br>@100V2000RPM |                            | ASHRAE32<br>Static |          |                             | (Condensing temperature 65°C (+149°F)) |                         |                           |          |           |       |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|----------------------------------------|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature          | Cooling capacity<br>+/- 5% |                    |          | Power consumption<br>+/- 5% | Current consumption<br>+/- 5%          | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |          |           |       |
|                                  | °C (°F)                    | [Btu/h]            | [kcal/h] | [W]                         | [W]                                    | [A]                     | [kg/h]                    | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31)                        | 249                        | 63                 | 73       | 49                          | 0.81                                   | 0.78                    | 5.03                      | 1.27     | 1.47      |       |
| -30 (-22)                        | 312                        | 79                 | 91       | 58                          | 0.93                                   | 0.98                    | 5.38                      | 1.36     | 1.58      |       |
| -25 (-13)                        | 404                        | 102                | 118      | 69                          | 1.07                                   | 1.27                    | 5.91                      | 1.49     | 1.73      |       |
| -20 (- 4)                        | 525                        | 132                | 154      | 80                          | 1.24                                   | 1.65                    | 6.57                      | 1.66     | 1.93      |       |
| -15 (+ 5)                        | 676                        | 170                | 198      | 93                          | 1.42                                   | 2.13                    | 7.33                      | 1.85     | 2.15      |       |
| -10 (+14)                        | 856                        | 216                | 251      | 105                         | 1.61                                   | 2.70                    | 8.15                      | 2.05     | 2.39      |       |

| TEST CONDITIONS:<br>@100V3600RPM |                            | ASHRAE32<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)                        | 497                        | 125                | 146      | 88                          | 1.40                                  | 1.56                    | 5.59                      | 1.41     | 1.64      |       |
| -30 (-22)                        | 617                        | 155                | 181      | 101                         | 1.54                                  | 1.93                    | 6.18                      | 1.56     | 1.81      |       |
| -25 (-13)                        | 793                        | 200                | 232      | 113                         | 1.74                                  | 2.49                    | 7.03                      | 1.77     | 2.06      |       |
| -20 (- 4)                        | 1022                       | 257                | 299      | 126                         | 1.97                                  | 3.21                    | 8.12                      | 2.05     | 2.38      |       |
| -15 (+ 5)                        | 1299                       | 327                | 381      | 138                         | 2.22                                  | 4.09                    | 9.40                      | 2.37     | 2.76      |       |
| -10 (+14)                        | 1622                       | 409                | 475      | 150                         | 2.44                                  | 5.11                    | 10.84                     | 2.73     | 3.18      |       |

| TEST CONDITIONS:<br>@100V3600RPM |                            | ASHRAE32<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)                        | 477                        | 120                | 140      | 93                          | 1.44                                   | 1.49                    | 5.18                      | 1.30     | 1.52      |       |
| -30 (-22)                        | 607                        | 153                | 178      | 106                         | 1.61                                   | 1.90                    | 5.73                      | 1.44     | 1.68      |       |
| -25 (-13)                        | 788                        | 199                | 231      | 121                         | 1.85                                   | 2.47                    | 6.49                      | 1.64     | 1.90      |       |
| -20 (- 4)                        | 1017                       | 256                | 298      | 136                         | 2.11                                   | 3.20                    | 7.43                      | 1.87     | 2.18      |       |
| -15 (+ 5)                        | 1290                       | 325                | 378      | 151                         | 2.39                                   | 4.06                    | 8.50                      | 2.14     | 2.49      |       |
| -10 (+14)                        | 1602                       | 404                | 469      | 166                         | 2.63                                   | 5.05                    | 9.67                      | 2.44     | 2.83      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@100V3600RPM |       | ASHRAE32<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) | 460                        | 116      | 135 | 96                                      | 1.48                          | 1.44                    | 4.83                      | 1.22      | 1.42  |
| -30                              | (-22) | 595                        | 150      | 174 | 111                                     | 1.67                          | 1.87                    | 5.35                      | 1.35      | 1.57  |
| -25                              | (-13) | 777                        | 196      | 228 | 128                                     | 1.93                          | 2.44                    | 6.02                      | 1.52      | 1.77  |
| -20                              | (- 4) | 1001                       | 252      | 293 | 146                                     | 2.21                          | 3.15                    | 6.81                      | 1.72      | 1.99  |
| -15                              | (+ 5) | 1264                       | 319      | 370 | 164                                     | 2.50                          | 3.98                    | 7.67                      | 1.93      | 2.25  |
| -10                              | (+14) | 1561                       | 393      | 457 | 183                                     | 2.75                          | 4.93                    | 8.56                      | 2.16      | 2.51  |

| TEST CONDITIONS:<br>@100V3600RPM |       | ASHRAE32<br>Static         |          |     | (Condensing temperature 65°C (+149°F) ) |                               |                         |                           |           |       |
|----------------------------------|-------|----------------------------|----------|-----|-----------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| Evaporating temperature          |       | Cooling capacity<br>+/- 5% |          |     | Power consumption<br>+/- 5%             | Current consumption<br>+/- 5% | Gas flow rate<br>+/- 5% | EFFICIENCY RATE<br>+/- 7% |           |       |
| °C                               | (°F)  | [Btu/h]                    | [kcal/h] | [W] | [W]                                     | [A]                           | [kg/h]                  | [Btu/Wh]                  | [kcal/Wh] | [W/W] |
| -35                              | (-31) | 445                        | 112      | 130 | 97                                      | 1.52                          | 1.39                    | 4.55                      | 1.15      | 1.33  |
| -30                              | (-22) | 581                        | 147      | 170 | 116                                     | 1.72                          | 1.82                    | 5.03                      | 1.27      | 1.47  |
| -25                              | (-13) | 759                        | 191      | 222 | 135                                     | 1.99                          | 2.38                    | 5.61                      | 1.41      | 1.64  |
| -20                              | (- 4) | 973                        | 245      | 285 | 157                                     | 2.27                          | 3.06                    | 6.24                      | 1.57      | 1.83  |
| -15                              | (+ 5) | 1221                       | 308      | 358 | 178                                     | 2.55                          | 3.85                    | 6.88                      | 1.73      | 2.02  |
| -10                              | (+14) | 1498                       | 378      | 439 | 200                                     | 2.80                          | 4.73                    | 7.51                      | 1.89      | 2.20  |

### F - EXTERNAL CHARACTERISTICS

|                         |                                       |      |                          |
|-------------------------|---------------------------------------|------|--------------------------|
| 1 Base plate            | European Standard EG/F/AMEM Version 2 |      |                          |
| 2 Tray holder           | Yes                                   |      |                          |
| 3 Connectors            |                                       |      |                          |
| 3.1 SUCTION             | 6.1 +0.10/+0.00                       | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material          | Copper                                |      |                          |
| 3.1.2 Shape             | Slanted                               |      |                          |
| 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                               |      |                          |
| 3.3 PROCESS             | 6.1 +0.10/+0.00                       | [mm] | (0.240" +0.004"/+0.000") |
| 3.3.1 Material          | Copper                                |      |                          |
| 3.3.2 Shape             | Slanted 60° up / 40° + 35°            |      |                          |
| 3.4 Oil cooler (Copper) | No                                    | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                          |      |                          |