

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEG Y8H         |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number        | 513800048       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                            |                                   |                                   |              |
|--------------------------------------------|-----------------------------------|-----------------------------------|--------------|
| 1 Type                                     | Hermetic reciprocating compressor |                                   |              |
| 2 Refrigerant                              | R-134a                            |                                   |              |
| 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                            | 103 to 140 V                      | 103 to 140 V |
| 8.2 LBP (43°C Ambient temperature)         | Static                            | 103 to 140 V                      | 103 to 140 V |
| 8.3 HBP (32°C Ambient temperature)         | -                                 | -                                 | -            |
| 8.4 HBP (43°C Ambient temperature)         | -                                 | -                                 | -            |
| 9 Maximum condensing pressures/temperature |                                   |                                   |              |
| 9.1 Operating (gauge)                      | 16.2                              | [kgf/cm <sup>2</sup> ] (230 psig) | / °C - °F    |
| 9.2 Peak (gauge)                           | 20.6                              | [kgf/cm <sup>2</sup> ] (293 psig) | / °C - °F    |
| 10 Maximum winding temperature             | 130                               | [ °C ]                            |              |

### B - MECHANICAL DATA

|                               |               |                                            |
|-------------------------------|---------------|--------------------------------------------|
| 1 Commercial designation      | 1/4           | [hp]                                       |
| 2 Displacement                | 7.95          | [cm <sup>3</sup> ] (0.485 cu.in)           |
| 2.1 Bore [mm]                 | 22.500        |                                            |
| 2.2 Stroke [mm]               | 20.000        |                                            |
| 3 Lubricant charge            | 430           | [ml] (14.54 fl.oz.)                        |
| 3.1 Lubricants approved       |               |                                            |
| 3.2 Lubricants type/viscosity | ESTER / ISO10 |                                            |
| 4 Weight (with oil charge)    | 10.93         | [kg] (24.10 lb.)                           |
| 5 Nitrogen charge             | 0.2 to 0.3    | [kgf/cm <sup>2</sup> ] (2.84 to 4.27 psig) |

### C - ELETRICAL DATA

|                                              |                                   |                                    |
|----------------------------------------------|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 53-150 Hz 3 ~ (Three phase) |                                    |
| 2 Starting device type                       | Inverter                          |                                    |
| 2.1 Starting device                          | VCC31156XXXX                      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | VCC31156XXXXX                     |                                    |
| 6 Start winding resistance                   | 6.40                              | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 6.40                              | [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             | UL                                |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|                                  |          |     |                                |                                  |                                                    |                           |                                        |       |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|----------------------------------------------------|---------------------------|----------------------------------------|-------|
| TEST CONDITIONS:<br>@115V1600RPM |          |     | ASHRAELBP32<br>Static          |                                  | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |
| Cooling capacity<br>+/- 5%       |          |     | Power<br>consumption<br>+/- 5% | Current<br>consumption<br>+/- 5% | Gas flow<br>rate<br>+/- 5%                         | EFFICIENCY RATE<br>+/- 7% |                                        |       |
| [Btu/h]                          | [kcal/h] | [W] | [W]                            | [A]                              | [kg/h]                                             | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |
| 450                              | 113      | 132 | 76                             | 1.00                             | 2.56                                               | 5.94                      | 1.50                                   | 1.74  |

|                                  |          |     |                                |                                  |                                                    |                           |                                        |       |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|----------------------------------------------------|---------------------------|----------------------------------------|-------|
| TEST CONDITIONS:<br>@115V2000RPM |          |     | ASHRAELBP32<br>Static          |                                  | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |
| Cooling capacity<br>+/- 5%       |          |     | Power<br>consumption<br>+/- 5% | Current<br>consumption<br>+/- 5% | Gas flow<br>rate<br>+/- 5%                         | EFFICIENCY RATE<br>+/- 7% |                                        |       |
| [Btu/h]                          | [kcal/h] | [W] | [W]                            | [A]                              | [kg/h]                                             | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |
| 555                              | 140      | 163 | 92                             | 1.22                             | 3.15                                               | 6.04                      | 1.52                                   | 1.77  |

|                                  |          |     |                                |                                  |                                                    |                           |                                        |       |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|----------------------------------------------------|---------------------------|----------------------------------------|-------|
| TEST CONDITIONS:<br>@115V2250RPM |          |     | ASHRAELBP32<br>Static          |                                  | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |
| Cooling capacity<br>+/- 5%       |          |     | Power<br>consumption<br>+/- 5% | Current<br>consumption<br>+/- 5% | Gas flow<br>rate<br>+/- 5%                         | EFFICIENCY RATE<br>+/- 7% |                                        |       |
| [Btu/h]                          | [kcal/h] | [W] | [W]                            | [A]                              | [kg/h]                                             | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |
| 655                              | 165      | 192 | 108                            | 1.41                             | 3.72                                               | 6.05                      | 1.52                                   | 1.77  |

|                                  |          |     |                                |                                  |                                                    |                           |                                        |       |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|----------------------------------------------------|---------------------------|----------------------------------------|-------|
| TEST CONDITIONS:<br>@115V3000RPM |          |     | ASHRAELBP32<br>Static          |                                  | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |
| Cooling capacity<br>+/- 5%       |          |     | Power<br>consumption<br>+/- 5% | Current<br>consumption<br>+/- 5% | Gas flow<br>rate<br>+/- 5%                         | EFFICIENCY RATE<br>+/- 7% |                                        |       |
| [Btu/h]                          | [kcal/h] | [W] | [W]                            | [A]                              | [kg/h]                                             | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |
| 870                              | 219      | 255 | 149                            | 1.88                             | 4.94                                               | 5.84                      | 1.47                                   | 1.71  |

|                                  |          |     |                                |                                  |                                                    |                           |                                        |       |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|----------------------------------------------------|---------------------------|----------------------------------------|-------|
| TEST CONDITIONS:<br>@115V4500RPM |          |     | ASHRAELBP32<br>Static          |                                  | Evaporating temperature<br>(Condensing temperature |                           | -23.3°C (-9.94°F)<br>54.4°C (129.92°F) |       |
| Cooling capacity<br>+/- 5%       |          |     | Power<br>consumption<br>+/- 5% | Current<br>consumption<br>+/- 5% | Gas flow<br>rate<br>+/- 5%                         | EFFICIENCY RATE<br>+/- 7% |                                        |       |
| [Btu/h]                          | [kcal/h] | [W] | [W]                            | [A]                              | [kg/h]                                             | [Btu/Wh]                  | [kcal/Wh]                              | [W/W] |
| 1090                             | 275      | 319 | 197                            | 2.44                             | 6.19                                               | 5.53                      | 1.39                                   | 1.62  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V1600RPM |                            | 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]  |
| -35                              | (-31)                      | 257                | 65      | 75                          | 47                                    | 0.65                    | 1.45                      | 5.45  | 1.37 | 1.60 |
| -30                              | (-22)                      | 378                | 95      | 111                         | 56                                    | 0.76                    | 2.14                      | 6.62  | 1.67 | 1.94 |
| -25                              | (-13)                      | 497                | 125     | 146                         | 64                                    | 0.86                    | 2.82                      | 7.70  | 1.94 | 2.26 |
| -20                              | (- 4)                      | 627                | 158     | 184                         | 72                                    | 0.96                    | 3.57                      | 8.76  | 2.21 | 2.57 |
| -15                              | (+ 5)                      | 779                | 196     | 228                         | 79                                    | 1.05                    | 4.45                      | 9.89  | 2.49 | 2.90 |
| -10                              | (+14)                      | 966                | 243     | 283                         | 86                                    | 1.15                    | 5.53                      | 11.19 | 2.82 | 3.28 |

| TEST CONDITIONS:<br>@115V1600RPM |                            | 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]  |
| -35                              | (-31)                      | 237                | 60      | 69                          | 48                                     | 0.70                    | 1.34                      | 4.99 | 1.26 | 1.46 |
| -30                              | (-22)                      | 347                | 88      | 102                         | 58                                     | 0.80                    | 1.97                      | 5.93 | 1.49 | 1.74 |
| -25                              | (-13)                      | 460                | 116     | 135                         | 68                                     | 0.90                    | 2.61                      | 6.76 | 1.70 | 1.98 |
| -20                              | (- 4)                      | 587                | 148     | 172                         | 78                                     | 1.01                    | 3.34                      | 7.58 | 1.91 | 2.22 |
| -15                              | (+ 5)                      | 740                | 186     | 217                         | 87                                     | 1.13                    | 4.22                      | 8.47 | 2.13 | 2.48 |
| -10                              | (+14)                      | 932                | 235     | 273                         | 97                                     | 1.26                    | 5.34                      | 9.53 | 2.40 | 2.79 |

| TEST CONDITIONS:<br>@115V1600RPM |                            | 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]  |
| -35                              | (-31)                      | 206                | 52      | 60                          | 48                                     | 0.68                    | 1.16                      | 4.30 | 1.08 | 1.26 |
| -30                              | (-22)                      | 304                | 77      | 89                          | 60                                     | 0.79                    | 1.72                      | 5.06 | 1.27 | 1.48 |
| -25                              | (-13)                      | 408                | 103     | 120                         | 72                                     | 0.91                    | 2.32                      | 5.71 | 1.44 | 1.67 |
| -20                              | (- 4)                      | 530                | 134     | 155                         | 84                                     | 1.05                    | 3.02                      | 6.34 | 1.60 | 1.86 |
| -15                              | (+ 5)                      | 683                | 172     | 200                         | 97                                     | 1.21                    | 3.90                      | 7.05 | 1.78 | 2.07 |
| -10                              | (+14)                      | 879                | 221     | 257                         | 110                                    | 1.40                    | 5.03                      | 7.92 | 2.00 | 2.32 |

| TEST CONDITIONS:<br>@115V2000RPM |                            | 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]  |
| -35                              | (-31)                      | 326                | 82      | 96                          | 57                                    | 0.81                    | 1.84                      | 5.72  | 1.44 | 1.68 |
| -30                              | (-22)                      | 448                | 113     | 131                         | 65                                    | 0.88                    | 2.54                      | 6.80  | 1.71 | 1.99 |
| -25                              | (-13)                      | 589                | 148     | 173                         | 75                                    | 0.99                    | 3.34                      | 7.81  | 1.97 | 2.29 |
| -20                              | (- 4)                      | 755                | 190     | 221                         | 86                                    | 1.12                    | 4.30                      | 8.83  | 2.23 | 2.59 |
| -15                              | (+ 5)                      | 955                | 241     | 280                         | 96                                    | 1.27                    | 5.45                      | 9.96  | 2.51 | 2.92 |
| -10                              | (+14)                      | 1197               | 302     | 351                         | 107                                   | 1.42                    | 6.86                      | 11.26 | 2.84 | 3.30 |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V2000RPM |                            | 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)                        | 290                        | 73                 | 85       | 58                          | 0.85                                   | 1.64                    | 5.05                      | 1.27     | 1.48      |       |
| -30 (-22)                        | 411                        | 103                | 120      | 69                          | 0.95                                   | 2.33                    | 5.95                      | 1.50     | 1.74      |       |
| -25 (-13)                        | 551                        | 139                | 161      | 81                          | 1.09                                   | 3.13                    | 6.78                      | 1.71     | 1.99      |       |
| -20 (- 4)                        | 719                        | 181                | 211      | 94                          | 1.24                                   | 4.09                    | 7.62                      | 1.92     | 2.23      |       |
| -15 (+ 5)                        | 922                        | 232                | 270      | 107                         | 1.40                                   | 5.26                    | 8.57                      | 2.16     | 2.51      |       |
| -10 (+14)                        | 1168                       | 294                | 342      | 120                         | 1.56                                   | 6.69                    | 9.70                      | 2.44     | 2.84      |       |

| TEST CONDITIONS:<br>@115V2000RPM |                            | 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)                        | 269                        | 68                 | 79       | 59                          | 0.83                                   | 1.52                    | 4.57                      | 1.15     | 1.34      |       |
| -30 (-22)                        | 375                        | 94                 | 110      | 72                          | 0.98                                   | 2.12                    | 5.24                      | 1.32     | 1.54      |       |
| -25 (-13)                        | 502                        | 127                | 147      | 87                          | 1.15                                   | 2.85                    | 5.84                      | 1.47     | 1.71      |       |
| -20 (- 4)                        | 659                        | 166                | 193      | 103                         | 1.34                                   | 3.75                    | 6.45                      | 1.62     | 1.89      |       |
| -15 (+ 5)                        | 853                        | 215                | 250      | 119                         | 1.54                                   | 4.87                    | 7.16                      | 1.80     | 2.10      |       |
| -10 (+14)                        | 1092                       | 275                | 320      | 135                         | 1.74                                   | 6.25                    | 8.05                      | 2.03     | 2.36      |       |

| TEST CONDITIONS:<br>@115V2250RPM |                            | 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)                        | 421                        | 106                | 123      | 74                          | 1.04                                  | 2.38                    | 5.69                      | 1.43     | 1.67      |       |
| -30 (-22)                        | 544                        | 137                | 160      | 82                          | 0.94                                  | 3.09                    | 6.61                      | 1.67     | 1.94      |       |
| -25 (-13)                        | 694                        | 175                | 203      | 92                          | 1.20                                  | 3.94                    | 7.55                      | 1.90     | 2.21      |       |
| -20 (- 4)                        | 875                        | 221                | 256      | 102                         | 1.64                                  | 4.98                    | 8.57                      | 2.16     | 2.51      |       |
| -15 (+ 5)                        | 1094                       | 276                | 321      | 113                         | 2.11                                  | 6.25                    | 9.75                      | 2.46     | 2.86      |       |
| -10 (+14)                        | 1356                       | 342                | 397      | 122                         | 2.45                                  | 7.77                    | 11.16                     | 2.81     | 3.27      |       |

| TEST CONDITIONS:<br>@115V2250RPM |                            | 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)                        | 384                        | 97                 | 112      | 76                          | 1.10                                   | 2.17                    | 5.06                      | 1.27     | 1.48      |       |
| -30 (-22)                        | 504                        | 127                | 148      | 86                          | 1.04                                   | 2.86                    | 5.84                      | 1.47     | 1.71      |       |
| -25 (-13)                        | 651                        | 164                | 191      | 98                          | 1.32                                   | 3.70                    | 6.63                      | 1.67     | 1.94      |       |
| -20 (- 4)                        | 830                        | 209                | 243      | 110                         | 1.76                                   | 4.73                    | 7.49                      | 1.89     | 2.19      |       |
| -15 (+ 5)                        | 1047                       | 264                | 307      | 123                         | 2.21                                   | 5.98                    | 8.48                      | 2.14     | 2.49      |       |
| -10 (+14)                        | 1307                       | 329                | 383      | 135                         | 2.49                                   | 7.49                    | 9.68                      | 2.44     | 2.84      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:        |                  | ASHRAE32 |     |                   | (Condensing temperature 55°C (+131°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|----------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V2250RPM            |                  | 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)               | 368              | 93       | 108 | 79                | 1.08                                   | 2.08          | 4.64            | 1.17      | 1.36  |  |
| -30 (-22)               | 471              | 119      | 138 | 90                | 1.07                                   | 2.67          | 5.24            | 1.32      | 1.54  |  |
| -25 (-13)               | 601              | 151      | 176 | 104               | 1.37                                   | 3.41          | 5.83            | 1.47      | 1.71  |  |
| -20 (- 4)               | 762              | 192      | 223 | 118               | 1.81                                   | 4.34          | 6.47            | 1.63      | 1.90  |  |
| -15 (+ 5)               | 962              | 242      | 282 | 133               | 2.24                                   | 5.49          | 7.23            | 1.82      | 2.12  |  |
| -10 (+14)               | 1205             | 304      | 353 | 147               | 2.49                                   | 6.90          | 8.18            | 2.06      | 2.40  |  |

| TEST CONDITIONS:        |                  | ASHRAE32 |     |                   | (Condensing temperature 35°C (+95°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V3000RPM            |                  | 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)               | 516              | 130      | 151 | 95                | 1.31                                  | 2.92          | 5.41            | 1.36      | 1.59  |  |
| -30 (-22)               | 640              | 161      | 187 | 103               | 1.40                                  | 3.62          | 6.27            | 1.58      | 1.84  |  |
| -25 (-13)               | 846              | 213      | 248 | 119               | 1.59                                  | 4.80          | 7.10            | 1.79      | 2.08  |  |
| -20 (- 4)               | 1120             | 282      | 328 | 140               | 1.83                                  | 6.38          | 7.97            | 2.01      | 2.33  |  |
| -15 (+ 5)               | 1446             | 364      | 424 | 161               | 2.09                                  | 8.26          | 8.95            | 2.26      | 2.62  |  |
| -10 (+14)               | 1807             | 455      | 530 | 179               | 2.32                                  | 10.36         | 10.14           | 2.56      | 2.97  |  |

| TEST CONDITIONS:        |                  | ASHRAE32 |     |                   | (Condensing temperature 45°C (+113°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|----------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V3000RPM            |                  | 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)               | 473              | 119      | 139 | 97                | 1.39                                   | 2.68          | 4.87            | 1.23      | 1.43  |  |
| -30 (-22)               | 622              | 157      | 182 | 112               | 1.54                                   | 3.53          | 5.60            | 1.41      | 1.64  |  |
| -25 (-13)               | 834              | 210      | 244 | 133               | 1.75                                   | 4.73          | 6.29            | 1.58      | 1.84  |  |
| -20 (- 4)               | 1092             | 275      | 320 | 155               | 1.99                                   | 6.21          | 7.02            | 1.77      | 2.06  |  |
| -15 (+ 5)               | 1380             | 348      | 404 | 176               | 2.21                                   | 7.88          | 7.88            | 1.99      | 2.31  |  |
| -10 (+14)               | 1684             | 424      | 493 | 189               | 2.38                                   | 9.65          | 8.93            | 2.25      | 2.62  |  |

| TEST CONDITIONS:        |                  | ASHRAE32 |     |                   | (Condensing temperature 55°C (+131°F)) |               |                 |           |       |  |
|-------------------------|------------------|----------|-----|-------------------|----------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V3000RPM            |                  | 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)               | 411              | 104      | 120 | 94                | 1.32                                   | 2.32          | 4.37            | 1.10      | 1.28  |  |
| -30 (-22)               | 581              | 146      | 170 | 116               | 1.54                                   | 3.29          | 5.00            | 1.26      | 1.47  |  |
| -25 (-13)               | 792              | 200      | 232 | 141               | 1.80                                   | 4.50          | 5.59            | 1.41      | 1.64  |  |
| -20 (- 4)               | 1029             | 259      | 301 | 165               | 2.05                                   | 5.85          | 6.22            | 1.57      | 1.82  |  |
| -15 (+ 5)               | 1275             | 321      | 374 | 183               | 2.26                                   | 7.28          | 6.97            | 1.76      | 2.04  |  |
| -10 (+14)               | 1516             | 382      | 444 | 193               | 2.39                                   | 8.68          | 7.92            | 2.00      | 2.32  |  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@115V4500RPM |                            | 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)                        | 641                        | 162                | 188      | 136                         | 1.84                                  | 3.63                    | 4.72                      | 1.19     | 1.38      |       |
| -30 (-22)                        | 919                        | 232                | 269      | 170                         | 2.15                                  | 5.21                    | 5.40                      | 1.36     | 1.58      |       |
| -25 (-13)                        | 1185                       | 299                | 347      | 187                         | 2.34                                  | 6.73                    | 6.34                      | 1.60     | 1.86      |       |
| -20 (- 4)                        | 1445                       | 364                | 423      | 194                         | 2.45                                  | 8.23                    | 7.50                      | 1.89     | 2.20      |       |
| -15 (+ 5)                        | 1706                       | 430                | 500      | 194                         | 2.50                                  | 9.74                    | 8.79                      | 2.22     | 2.58      |       |
| -10 (+14)                        | 1974                       | 497                | 578      | 192                         | 2.53                                  | 11.31                   | 10.17                     | 2.56     | 2.98      |       |

| TEST CONDITIONS:<br>@115V4500RPM |                            | 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)                        | 608                        | 153                | 178      | 138                         | 1.86                                   | 3.44                    | 4.41                      | 1.11     | 1.29      |       |
| -30 (-22)                        | 868                        | 219                | 254      | 173                         | 2.18                                   | 4.92                    | 4.97                      | 1.25     | 1.46      |       |
| -25 (-13)                        | 1109                       | 280                | 325      | 192                         | 2.37                                   | 6.30                    | 5.79                      | 1.46     | 1.70      |       |
| -20 (- 4)                        | 1338                       | 337                | 392      | 198                         | 2.46                                   | 7.61                    | 6.79                      | 1.71     | 1.99      |       |
| -15 (+ 5)                        | 1559                       | 393                | 457      | 197                         | 2.49                                   | 8.90                    | 7.93                      | 2.00     | 2.32      |       |
| -10 (+14)                        | 1779                       | 448                | 521      | 194                         | 2.49                                   | 10.19                   | 9.13                      | 2.30     | 2.67      |       |

| TEST CONDITIONS:<br>@115V4500RPM |                            | 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)                        | 569                        | 143                | 167      | 140                         | 1.91                                   | 3.22                    | 4.08                      | 1.03     | 1.19      |       |
| -30 (-22)                        | 806                        | 203                | 236      | 176                         | 2.23                                   | 4.57                    | 4.52                      | 1.14     | 1.33      |       |
| -25 (-13)                        | 1017                       | 256                | 298      | 194                         | 2.41                                   | 5.77                    | 5.21                      | 1.31     | 1.53      |       |
| -20 (- 4)                        | 1207                       | 304                | 354      | 199                         | 2.49                                   | 6.87                    | 6.08                      | 1.53     | 1.78      |       |
| -15 (+ 5)                        | 1383                       | 349                | 405      | 197                         | 2.49                                   | 7.89                    | 7.06                      | 1.78     | 2.07      |       |
| -10 (+14)                        | 1551                       | 391                | 454      | 191                         | 2.45                                   | 8.88                    | 8.09                      | 2.04     | 2.37      |       |

### F - EXTERNAL CHARACTERISTICS

|                         |                               |      |                          |
|-------------------------|-------------------------------|------|--------------------------|
| 1 Base plate            | Universal EG/F/AMEM version 2 |      |                          |
| 2 Tray holder           | No                            |      |                          |
| 3 Connectors            |                               |      |                          |
| 3.1 SUCTION             | 8.2 +0.12/-0.08               | [mm] | (0.323" +0.005"/-0.003") |
| 3.1.1 Material          | Copper                        |      |                          |
| 3.1.2 Shape             | Straight                      |      |                          |
| 3.2 DISCHARGE           | 6.5 +0.12/-0.08               | [mm] | (0.256" +0.005"/-0.003") |
| 3.2.1 Material          | Copper                        |      |                          |
| 3.2.2 Shape             | Straight                      |      |                          |
| 3.3 PROCESS             | 6.5 +0.12/-0.08               | [mm] | (0.256" +0.005"/-0.003") |
| 3.3.1 Material          | Copper                        |      |                          |
| 3.3.2 Shape             | Straight                      |      |                          |
| 3.4 Oil cooler (Copper) | No                            | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                  |      |                          |