

### COMPRESSOR DEFINITION

|                           |                 |
|---------------------------|-----------------|
| Designation               | VEM Y9C         |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number        | 513900034       |

### A - APPLICATION / LIMIT WORKING CONDITIONS

|                                    |                                   |                                   |              |
|------------------------------------|-----------------------------------|-----------------------------------|--------------|
| 1 Type                             | Hermetic reciprocating compressor |                                   |              |
| 2 Refrigerant                      | R-600a                            |                                   |              |
| 3 Nominal voltage and frequency    | 230 / 53-150                      | [ V / Hz ]                        |              |
| 4 Application type                 | Low Back Pressure                 |                                   |              |
| 4.1 Evaporating temperature range  | -35°C to -10°C                    | (-31°F to 14°F)                   |              |
| 5 Motor type                       | BPM                               |                                   |              |
| 6 Starting torque                  | LST - Low Starting Torque         |                                   |              |
| 7 Expansion device                 | Capillary tube                    |                                   |              |
| 8 Compressor cooling               | Operating voltage range           |                                   |              |
|                                    |                                   | 50 Hz                             | 60 Hz        |
| 8.1 LBP (32°C Ambient temperature) | Static                            | 187 to 255 V                      | 187 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | Static                            | 187 to 255 V                      | 187 to 255 V |
| 8.3 HBP (32°C Ambient temperature) | -                                 | -                                 | -            |
| 8.4 HBP (43°C Ambient temperature) | -                                 | -                                 | -            |
| 9 Maximum condensing temperature   |                                   |                                   |              |
| 9.1 Operating                      | 6.9                               | [kgf/cm <sup>2</sup> ] (98 psig)  | / °C - °F    |
| 9.2 Peak                           | 7.8                               | [kgf/cm <sup>2</sup> ] (111 psig) | / °C - °F    |
| 10 Maximum winding temperature     | 130                               | [ °C ]                            |              |

### B - MECHANICAL DATA

|                               |                 |                                  |
|-------------------------------|-----------------|----------------------------------|
| 1 Commercial designation      | 1/5             | [hp]                             |
| 2 Displacement                | 9.34            | [cm <sup>3</sup> ] (0.570 cu.in) |
| 2.1 Bore [mm]                 | 26.000          |                                  |
| 2.2 Stroke [mm]               | 17.600          |                                  |
| 3 Lubricant charge            | 220             | [ml] (7.44 fl.oz.)               |
| 3.1 Lubricants approved       |                 |                                  |
| 3.2 Lubricants type/viscosity | MINERAL / ISO10 |                                  |
| 4 Weight (with oil charge)    | 7.59            | [kg] (16.73 lb.)                 |
| 5 Nitrogen charge             | -               | [kgf/cm <sup>2</sup> ]           |

### C - ELETRICAL DATA

|  |                                   |                                    |
|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 53-150 Hz 3 ~ (Three phase) |                                    |
| 2 Starting device type                       | Inverter                          |                                    |
| 2.1 Starting device                          | VCC32456XXXX                      |                                    |
| 3 Start capacitor                            | -                                 | [µF(VAC minimum)]                  |
| 4 Run capacitor                              | -                                 | [µF(VAC minimum)]                  |
| 5 Motor protection                           | VCC32456XXXXX                     |                                    |
| 6 Start winding resistance                   | 16.07                             | [Ω at 25°C (77°F)] +/- 8%          |
| 7 Run winding resistance                     | 16.07                             | [Ω at 25°C (77°F)] +/- 8%          |
| 8 LRA - Locked rotor amperage (53/15 Hz)     | 2.10/2.10                         | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (53/15 Hz)  | 2.10/2.10                         | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (53/15 Hz)   | -                                 | [A] - Measured according to UL 984 |
| 11 Approval boards certification             | CCC - CE - UKCA - VDE             |                                    |

### D - PERFORMANCE - CHECK POINT DATA

|   |          |     |                                     |                               |   |  |           |       |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS:<br><b>@220V1600RPM</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] |
| 348                                     | 88       | 102 | 58                                  | 0.44                          | 1.09  | 6.02   | 1.52      | 1.76  |

|   |          |     |                                     |                               |   |  |           |       |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS:<br><b>@220V2000RPM</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] |
| 389                                     | 98       | 114 | 66                                  | 0.52                          | 1.22  | 5.89   | 1.48      | 1.73  |

|   |          |     |                                     |                               |   |  |           |       |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS:<br><b>@220V3000RPM</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] |
| 586                                     | 148      | 172 | 102                                 | 0.76                          | 1.84  | 5.76   | 1.45      | 1.69  |

|   |          |     |                                     |                               |   |  |           |       |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS:<br><b>@220V4500RPM</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] |
| 804                                     | 203      | 236 | 144                                 | 1.10                          | 2.52  | 5.59   | 1.41      | 1.64  |

### E - PERFORMANCE - CURVES

|   |                            |                                  |         |                             |                               |   |                           |        |          |           |
|---|----------------------------|----------------------------------|---------|-----------------------------|-------------------------------|---|---------------------------|--------|----------|-----------|
| TEST CONDITIONS:<br><b>@220V1600RPM</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)                      | 193                              | 49      | 57                          | 37                            | 0.27  | 0.60                      | 5.23   | 1.32     | 1.53      |
| -30                                     | (-22)                      | 268                              | 67      | 78                          | 42                            | 0.33  | 0.84                      | 6.35   | 1.60     | 1.86      |
| -25                                     | (-13)                      | 356                              | 90      | 104                         | 47                            | 0.35  | 1.12                      | 7.61   | 1.92     | 2.23      |
| -20                                     | (- 4)                      | 461                              | 116     | 135                         | 52                            | 0.35  | 1.45                      | 8.93   | 2.25     | 2.62      |
| -15                                     | (+ 5)                      | 582                              | 147     | 171                         | 57                            | 0.38  | 1.83                      | 10.26  | 2.58     | 3.01      |
| -10                                     | (+14)                      | 722                              | 182     | 212                         | 63                            | 0.46  | 2.28                      | 11.52  | 2.90     | 3.38      |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V1600RPM |       | 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) | 189                        | 48       | 55  | 36                                     | 0.24                          | 0.59                    | 5.35                      | 1.35      | 1.57  |
| -30                              | (-22) | 257                        | 65       | 75  | 43                                     | 0.37                          | 0.81                    | 6.00                      | 1.51      | 1.76  |
| -25                              | (-13) | 339                        | 85       | 99  | 50                                     | 0.45                          | 1.06                    | 6.81                      | 1.72      | 1.99  |
| -20                              | (- 4) | 437                        | 110      | 128 | 57                                     | 0.52                          | 1.37                    | 7.71                      | 1.94      | 2.26  |
| -15                              | (+ 5) | 551                        | 139      | 161 | 64                                     | 0.61                          | 1.73                    | 8.65                      | 2.18      | 2.53  |
| -10                              | (+14) | 683                        | 172      | 200 | 71                                     | 0.75                          | 2.16                    | 9.55                      | 2.41      | 2.80  |

| TEST CONDITIONS:<br>@220V1600RPM |       | 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) | 164                        | 41       | 48  | 37                                     | 0.32                          | 0.51                    | 4.48                      | 1.13      | 1.31  |
| -30                              | (-22) | 229                        | 58       | 67  | 46                                     | 0.41                          | 0.72                    | 4.93                      | 1.24      | 1.44  |
| -25                              | (-13) | 307                        | 77       | 90  | 55                                     | 0.45                          | 0.97                    | 5.57                      | 1.40      | 1.63  |
| -20                              | (- 4) | 401                        | 101      | 118 | 63                                     | 0.47                          | 1.26                    | 6.33                      | 1.59      | 1.85  |
| -15                              | (+ 5) | 511                        | 129      | 150 | 72                                     | 0.50                          | 1.61                    | 7.15                      | 1.80      | 2.09  |
| -10                              | (+14) | 640                        | 161      | 187 | 81                                     | 0.59                          | 2.02                    | 7.96                      | 2.01      | 2.33  |

| TEST CONDITIONS:<br>@220V2000RPM |       | 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) | 220                        | 55       | 64  | 47                                    | 0.40                          | 0.69                    | 4.71                      | 1.19      | 1.38  |
| -30                              | (-22) | 310                        | 78       | 91  | 50                                    | 0.44                          | 0.97                    | 6.17                      | 1.56      | 1.81  |
| -25                              | (-13) | 416                        | 105      | 122 | 55                                    | 0.46                          | 1.31                    | 7.51                      | 1.89      | 2.20  |
| -20                              | (- 4) | 539                        | 136      | 158 | 62                                    | 0.46                          | 1.69                    | 8.74                      | 2.20      | 2.56  |
| -15                              | (+ 5) | 678                        | 171      | 199 | 68                                    | 0.47                          | 2.13                    | 9.92                      | 2.50      | 2.91  |
| -10                              | (+14) | 835                        | 210      | 245 | 75                                    | 0.49                          | 2.63                    | 11.09                     | 2.79      | 3.25  |

| TEST CONDITIONS:<br>@220V2000RPM |       | 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) | 230                        | 58       | 68  | 46                                     | 0.36                          | 0.72                    | 5.04                      | 1.27      | 1.48  |
| -30                              | (-22) | 307                        | 77       | 90  | 51                                     | 0.44                          | 0.96                    | 6.01                      | 1.51      | 1.76  |
| -25                              | (-13) | 400                        | 101      | 117 | 58                                     | 0.50                          | 1.26                    | 6.89                      | 1.74      | 2.02  |
| -20                              | (- 4) | 512                        | 129      | 150 | 66                                     | 0.55                          | 1.61                    | 7.73                      | 1.95      | 2.26  |
| -15                              | (+ 5) | 642                        | 162      | 188 | 75                                     | 0.60                          | 2.02                    | 8.56                      | 2.16      | 2.51  |
| -10                              | (+14) | 791                        | 199      | 232 | 84                                     | 0.68                          | 2.49                    | 9.41                      | 2.37      | 2.76  |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V2000RPM |                            | 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)                        | 198                        | 50                 | 58       | 46                          | 0.38                                   | 0.62                    | 4.35                      | 1.10     | 1.27      |       |
| -30 (-22)                        | 269                        | 68                 | 79       | 53                          | 0.45                                   | 0.84                    | 5.09                      | 1.28     | 1.49      |       |
| -25 (-13)                        | 358                        | 90                 | 105      | 62                          | 0.50                                   | 1.12                    | 5.79                      | 1.46     | 1.70      |       |
| -20 (- 4)                        | 467                        | 118                | 137      | 72                          | 0.56                                   | 1.47                    | 6.49                      | 1.64     | 1.90      |       |
| -15 (+ 5)                        | 596                        | 150                | 175      | 82                          | 0.62                                   | 1.88                    | 7.23                      | 1.82     | 2.12      |       |
| -10 (+14)                        | 745                        | 188                | 218      | 92                          | 0.70                                   | 2.35                    | 8.05                      | 2.03     | 2.36      |       |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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)                        | 347                        | 87                 | 102      | 69                          | 0.56                                  | 1.09                    | 5.03                      | 1.27     | 1.47      |       |
| -30 (-22)                        | 477                        | 120                | 140      | 79                          | 0.64                                  | 1.50                    | 6.06                      | 1.53     | 1.78      |       |
| -25 (-13)                        | 627                        | 158                | 184      | 88                          | 0.70                                  | 1.97                    | 7.11                      | 1.79     | 2.08      |       |
| -20 (- 4)                        | 799                        | 201                | 234      | 98                          | 0.74                                  | 2.51                    | 8.15                      | 2.05     | 2.39      |       |
| -15 (+ 5)                        | 998                        | 252                | 293      | 109                         | 0.78                                  | 3.14                    | 9.13                      | 2.30     | 2.67      |       |
| -10 (+14)                        | 1227                       | 309                | 360      | 123                         | 0.83                                  | 3.87                    | 10.01                     | 2.52     | 2.93      |       |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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)                        | 337                        | 85                 | 99       | 68                          | 0.53                                   | 1.05                    | 4.96                      | 1.25     | 1.45      |       |
| -30 (-22)                        | 450                        | 113                | 132      | 80                          | 0.63                                   | 1.41                    | 5.67                      | 1.43     | 1.66      |       |
| -25 (-13)                        | 585                        | 147                | 171      | 91                          | 0.73                                   | 1.84                    | 6.45                      | 1.63     | 1.89      |       |
| -20 (- 4)                        | 746                        | 188                | 218      | 103                         | 0.81                                   | 2.34                    | 7.27                      | 1.83     | 2.13      |       |
| -15 (+ 5)                        | 936                        | 236                | 274      | 116                         | 0.90                                   | 2.94                    | 8.09                      | 2.04     | 2.37      |       |
| -10 (+14)                        | 1159                       | 292                | 339      | 131                         | 0.99                                   | 3.65                    | 8.87                      | 2.23     | 2.60      |       |

| TEST CONDITIONS:<br>@220V3000RPM |                            | 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)                        | 306                        | 77                 | 90       | 69                          | 0.55                                   | 0.96                    | 4.41                      | 1.11     | 1.29      |       |
| -30 (-22)                        | 410                        | 103                | 120      | 83                          | 0.65                                   | 1.29                    | 4.92                      | 1.24     | 1.44      |       |
| -25 (-13)                        | 539                        | 136                | 158      | 97                          | 0.75                                   | 1.69                    | 5.56                      | 1.40     | 1.63      |       |
| -20 (- 4)                        | 696                        | 175                | 204      | 111                         | 0.84                                   | 2.19                    | 6.28                      | 1.58     | 1.84      |       |
| -15 (+ 5)                        | 885                        | 223                | 259      | 125                         | 0.94                                   | 2.79                    | 7.07                      | 1.78     | 2.07      |       |
| -10 (+14)                        | 1110                       | 280                | 325      | 141                         | 1.06                                   | 3.50                    | 7.86                      | 1.98     | 2.30      |       |

### E - PERFORMANCE - CURVES

| TEST CONDITIONS:<br>@220V4500RPM |                            | 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] |
| -35                              | (-31)                      | 494                | 124     | 145                         | 99                                    | 0.78                    | 1.55                      | 4.99   | 1.26     | 1.46      |
| -30                              | (-22)                      | 624                | 157     | 183                         | 111                                   | 0.88                    | 1.95                      | 5.66   | 1.43     | 1.66      |
| -25                              | (-13)                      | 800                | 202     | 234                         | 125                                   | 0.98                    | 2.51                      | 6.41   | 1.61     | 1.88      |
| -20                              | (- 4)                      | 1011               | 255     | 296                         | 140                                   | 1.08                    | 3.18                      | 7.22   | 1.82     | 2.12      |
| -15                              | (+ 5)                      | 1245               | 314     | 365                         | 153                                   | 1.17                    | 3.92                      | 8.11   | 2.04     | 2.38      |
| -10                              | (+14)                      | 1491               | 376     | 437                         | 165                                   | 1.24                    | 4.70                      | 9.06   | 2.28     | 2.65      |

| TEST CONDITIONS:<br>@220V4500RPM |                            | 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] |
| -35                              | (-31)                      | 472                | 119     | 138                         | 99                                     | 0.78                    | 1.48                      | 4.69   | 1.18     | 1.37      |
| -30                              | (-22)                      | 601                | 151     | 176                         | 114                                    | 0.89                    | 1.88                      | 5.26   | 1.33     | 1.54      |
| -25                              | (-13)                      | 770                | 194     | 226                         | 131                                    | 1.00                    | 2.42                      | 5.89   | 1.48     | 1.73      |
| -20                              | (- 4)                      | 968                | 244     | 284                         | 148                                    | 1.12                    | 3.04                      | 6.56   | 1.65     | 1.92      |
| -15                              | (+ 5)                      | 1183               | 298     | 347                         | 163                                    | 1.22                    | 3.72                      | 7.27   | 1.83     | 2.13      |
| -10                              | (+14)                      | 1402               | 353     | 411                         | 175                                    | 1.30                    | 4.42                      | 8.02   | 2.02     | 2.35      |

| TEST CONDITIONS:<br>@220V4500RPM |                            | 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] |
| -35                              | (-31)                      | 416                | 105     | 122                         | 102                                    | 0.78                    | 1.30                      | 4.15   | 1.04     | 1.22      |
| -30                              | (-22)                      | 566                | 143     | 166                         | 118                                    | 0.91                    | 1.77                      | 4.81   | 1.21     | 1.41      |
| -25                              | (-13)                      | 750                | 189     | 220                         | 136                                    | 1.03                    | 2.35                      | 5.50   | 1.39     | 1.61      |
| -20                              | (- 4)                      | 956                | 241     | 280                         | 153                                    | 1.15                    | 3.00                      | 6.21   | 1.56     | 1.82      |
| -15                              | (+ 5)                      | 1172               | 295     | 343                         | 169                                    | 1.26                    | 3.69                      | 6.92   | 1.74     | 2.03      |
| -10                              | (+14)                      | 1387               | 350     | 406                         | 182                                    | 1.36                    | 4.38                      | 7.65   | 1.93     | 2.24      |

### F - EXTERNAL CHARACTERISTICS

|                         |                                |      |                          |
|-------------------------|--------------------------------|------|--------------------------|
| 1 Base plate            | European Standard EUEM         |      |                          |
| 2 Tray holder           | No                             |      |                          |
| 3 Connectors            |                                |      |                          |
| 3.1 SUCTION             | 6.1 +0.10/+0.00                | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material          | Copper                         |      |                          |
| 3.1.2 Shape             | Slanted 42° up + 45° to Back   |      |                          |
| 3.2 DISCHARGE           | 5.1 +0.10/+0.00                | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material          | Copper                         |      |                          |
| 3.2.2 Shape             | Slanted parallel BP+24°to Back |      |                          |
| 3.3 PROCESS             | 6 +0.08/-0.08                  | [mm] | (0.236" +0.003"/-0.003") |
| 3.3.1 Material          | Copper(OD)                     |      |                          |
| 3.3.2 Shape             | Slanted 42° up + 45° to Back   |      |                          |
| 3.4 Oil cooler (Copper) | No                             | [mm] |                          |
| 3.5 Connector sealing   | Rubber Plugs                   |      |                          |