

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEG Y7H |
| Nominal Voltage/Frequency | 230 V 53-150 Hz |
| Engineering Number | 513800070 |

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 ²] (230 psig) | / °C - °F |
| 9.2 Peak (gauge) | 20.6 | [kgf/cm ²] (293 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|---------------|--|
| 1 Commercial designation | 1/4 | [hp] |
| 2 Displacement | 7.15 | [cm ³] (0.436 cu.in) |
| 2.1 Bore [mm] | 22.500 | |
| 2.2 Stroke [mm] | 18.000 | |
| 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) | 10.87 | [kg] (23.96 lb.) |
| 5 Nitrogen charge | 0.2 to 0.3 | [kgf/cm ²] (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) | 3.30 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50/60 Hz) | 3.30 | [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 | CCC - IMTRO - TUV - UL - VDE | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V1600RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 380 | 96 | 111 | 64 | 0.84 | 2.16 | 5.94 | 1.50 | 1.74 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V2000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 475 | 120 | 139 | 79 | 1.03 | 2.70 | 6.02 | 1.52 | 1.76 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V2250RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 595 | 150 | 174 | 96 | 1.25 | 3.38 | 6.19 | 1.56 | 1.81 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V3000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 765 | 193 | 224 | 130 | 1.63 | 4.35 | 5.90 | 1.49 | 1.73 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V4500RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 1070 | 270 | 314 | 195 | 2.39 | 6.08 | 5.49 | 1.38 | 1.61 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|---------|-----------------------------|--|-------------------------|---------------------------|--------|----------|-----------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -35 | (-31) | 196 | 49 | 57 | 37 | 0.57 | 1.11 | 5.25 | 1.32 | 1.54 |
| -30 | (-22) | 295 | 74 | 87 | 45 | 0.64 | 1.68 | 6.47 | 1.63 | 1.90 |
| -25 | (-13) | 401 | 101 | 118 | 52 | 0.71 | 2.28 | 7.62 | 1.92 | 2.23 |
| -20 | (- 4) | 522 | 132 | 153 | 60 | 0.79 | 2.97 | 8.78 | 2.21 | 2.57 |
| -15 | (+ 5) | 666 | 168 | 195 | 66 | 0.89 | 3.80 | 10.04 | 2.53 | 2.94 |
| -10 | (+14) | 841 | 212 | 247 | 73 | 1.00 | 4.82 | 11.47 | 2.89 | 3.36 |

| TEST CONDITIONS: @115V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|---------|-----------------------------|---|-------------------------|---------------------------|--------|----------|-----------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -35 | (-31) | 188 | 47 | 55 | 38 | 0.57 | 1.06 | 4.99 | 1.26 | 1.46 |
| -30 | (-22) | 279 | 70 | 82 | 47 | 0.66 | 1.58 | 5.90 | 1.49 | 1.73 |
| -25 | (-13) | 377 | 95 | 110 | 56 | 0.75 | 2.14 | 6.74 | 1.70 | 1.97 |
| -20 | (- 4) | 490 | 123 | 144 | 65 | 0.85 | 2.79 | 7.57 | 1.91 | 2.22 |
| -15 | (+ 5) | 627 | 158 | 184 | 74 | 0.97 | 3.58 | 8.50 | 2.14 | 2.49 |
| -10 | (+14) | 797 | 201 | 233 | 83 | 1.10 | 4.56 | 9.58 | 2.42 | 2.81 |

| TEST CONDITIONS: @115V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|---------|-----------------------------|---|-------------------------|---------------------------|--------|----------|-----------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -35 | (-31) | 158 | 40 | 46 | 37 | 0.56 | 0.89 | 4.27 | 1.08 | 1.25 |
| -30 | (-22) | 246 | 62 | 72 | 48 | 0.68 | 1.40 | 5.06 | 1.28 | 1.48 |
| -25 | (-13) | 342 | 86 | 100 | 59 | 0.80 | 1.94 | 5.76 | 1.45 | 1.69 |
| -20 | (- 4) | 454 | 114 | 133 | 70 | 0.93 | 2.58 | 6.45 | 1.63 | 1.89 |
| -15 | (+ 5) | 590 | 149 | 173 | 82 | 1.08 | 3.37 | 7.22 | 1.82 | 2.12 |
| -10 | (+14) | 760 | 191 | 223 | 93 | 1.24 | 4.35 | 8.14 | 2.05 | 2.39 |

| TEST CONDITIONS: @115V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|---------|-----------------------------|--|-------------------------|---------------------------|--------|----------|-----------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] |
| -35 | (-31) | 266 | 67 | 78 | 49 | 0.71 | 1.50 | 5.43 | 1.37 | 1.59 |
| -30 | (-22) | 384 | 97 | 113 | 58 | 0.79 | 2.18 | 6.55 | 1.65 | 1.92 |
| -25 | (-13) | 515 | 130 | 151 | 67 | 0.89 | 2.93 | 7.61 | 1.92 | 2.23 |
| -20 | (- 4) | 667 | 168 | 195 | 77 | 1.01 | 3.79 | 8.70 | 2.19 | 2.55 |
| -15 | (+ 5) | 847 | 213 | 248 | 86 | 1.13 | 4.83 | 9.90 | 2.49 | 2.90 |
| -10 | (+14) | 1064 | 268 | 312 | 94 | 1.26 | 6.09 | 11.29 | 2.85 | 3.31 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2000RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 253 | 64 | 74 | 50 | 0.73 | 1.43 | 5.01 | 1.26 | 1.47 | |
| -30 (-22) | 360 | 91 | 105 | 61 | 0.82 | 2.04 | 5.91 | 1.49 | 1.73 | |
| -25 (-13) | 482 | 121 | 141 | 72 | 0.94 | 2.74 | 6.74 | 1.70 | 1.97 | |
| -20 (- 4) | 627 | 158 | 184 | 83 | 1.08 | 3.57 | 7.57 | 1.91 | 2.22 | |
| -15 (+ 5) | 804 | 203 | 236 | 95 | 1.24 | 4.59 | 8.50 | 2.14 | 2.49 | |
| -10 (+14) | 1020 | 257 | 299 | 106 | 1.40 | 5.84 | 9.60 | 2.42 | 2.81 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2000RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 206 | 52 | 60 | 48 | 0.70 | 1.17 | 4.31 | 1.09 | 1.26 | |
| -30 (-22) | 307 | 77 | 90 | 60 | 0.82 | 1.74 | 5.12 | 1.29 | 1.50 | |
| -25 (-13) | 426 | 107 | 125 | 73 | 0.97 | 2.42 | 5.83 | 1.47 | 1.71 | |
| -20 (- 4) | 571 | 144 | 167 | 87 | 1.14 | 3.25 | 6.53 | 1.65 | 1.91 | |
| -15 (+ 5) | 749 | 189 | 220 | 102 | 1.33 | 4.28 | 7.31 | 1.84 | 2.14 | |
| -10 (+14) | 970 | 244 | 284 | 117 | 1.53 | 5.56 | 8.25 | 2.08 | 2.42 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V2250RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 350 | 88 | 103 | 65 | 0.91 | 1.98 | 5.37 | 1.35 | 1.57 | |
| -30 (-22) | 490 | 123 | 144 | 75 | 1.00 | 2.78 | 6.47 | 1.63 | 1.90 | |
| -25 (-13) | 642 | 162 | 188 | 85 | 1.11 | 3.65 | 7.54 | 1.90 | 2.21 | |
| -20 (- 4) | 813 | 205 | 238 | 94 | 1.23 | 4.63 | 8.65 | 2.18 | 2.54 | |
| -15 (+ 5) | 1010 | 254 | 296 | 103 | 1.35 | 5.76 | 9.87 | 2.49 | 2.89 | |
| -10 (+14) | 1238 | 312 | 363 | 110 | 1.47 | 7.10 | 11.27 | 2.84 | 3.30 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2250RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 322 | 81 | 94 | 66 | 0.92 | 1.82 | 4.92 | 1.24 | 1.44 | |
| -30 (-22) | 451 | 114 | 132 | 78 | 1.03 | 2.55 | 5.79 | 1.46 | 1.70 | |
| -25 (-13) | 593 | 149 | 174 | 89 | 1.15 | 3.37 | 6.63 | 1.67 | 1.94 | |
| -20 (- 4) | 755 | 190 | 221 | 100 | 1.29 | 4.30 | 7.52 | 1.90 | 2.20 | |
| -15 (+ 5) | 944 | 238 | 277 | 111 | 1.43 | 5.39 | 8.51 | 2.15 | 2.49 | |
| -10 (+14) | 1167 | 294 | 342 | 120 | 1.57 | 6.68 | 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) | 305 | 77 | 89 | 64 | 0.95 | 1.73 | 4.79 | 1.21 | 1.40 | |
| -30 (-22) | 418 | 105 | 122 | 78 | 1.06 | 2.37 | 5.40 | 1.36 | 1.58 | |
| -25 (-13) | 545 | 137 | 160 | 92 | 1.20 | 3.09 | 5.98 | 1.51 | 1.75 | |
| -20 (- 4) | 693 | 175 | 203 | 105 | 1.35 | 3.94 | 6.60 | 1.66 | 1.93 | |
| -15 (+ 5) | 869 | 219 | 255 | 118 | 1.51 | 4.96 | 7.32 | 1.85 | 2.15 | |
| -10 (+14) | 1079 | 272 | 316 | 131 | 1.67 | 6.18 | 8.22 | 2.07 | 2.41 | |

| 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) | 405 | 102 | 119 | 82 | 1.14 | 2.29 | 4.94 | 1.24 | 1.45 | |
| -30 (-22) | 562 | 142 | 165 | 93 | 1.23 | 3.18 | 6.02 | 1.52 | 1.76 | |
| -25 (-13) | 754 | 190 | 221 | 107 | 1.38 | 4.28 | 7.06 | 1.78 | 2.07 | |
| -20 (- 4) | 989 | 249 | 290 | 122 | 1.57 | 5.63 | 8.12 | 2.05 | 2.38 | |
| -15 (+ 5) | 1273 | 321 | 373 | 138 | 1.78 | 7.27 | 9.25 | 2.33 | 2.71 | |
| -10 (+14) | 1613 | 407 | 473 | 153 | 2.00 | 9.24 | 10.51 | 2.65 | 3.08 | |

| 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) | 375 | 95 | 110 | 82 | 1.16 | 2.12 | 4.59 | 1.16 | 1.35 | |
| -30 (-22) | 545 | 137 | 160 | 99 | 1.30 | 3.09 | 5.50 | 1.39 | 1.61 | |
| -25 (-13) | 742 | 187 | 217 | 116 | 1.49 | 4.21 | 6.36 | 1.60 | 1.86 | |
| -20 (- 4) | 974 | 246 | 286 | 135 | 1.71 | 5.55 | 7.22 | 1.82 | 2.11 | |
| -15 (+ 5) | 1249 | 315 | 366 | 153 | 1.94 | 7.13 | 8.14 | 2.05 | 2.38 | |
| -10 (+14) | 1572 | 396 | 461 | 171 | 2.17 | 9.01 | 9.18 | 2.31 | 2.69 | |

| 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) | 348 | 88 | 102 | 82 | 1.14 | 1.97 | 4.25 | 1.07 | 1.24 | |
| -30 (-22) | 510 | 129 | 149 | 101 | 1.33 | 2.89 | 5.01 | 1.26 | 1.47 | |
| -25 (-13) | 693 | 175 | 203 | 122 | 1.55 | 3.93 | 5.71 | 1.44 | 1.67 | |
| -20 (- 4) | 903 | 228 | 265 | 142 | 1.79 | 5.14 | 6.40 | 1.61 | 1.87 | |
| -15 (+ 5) | 1148 | 289 | 336 | 161 | 2.03 | 6.55 | 7.14 | 1.80 | 2.09 | |
| -10 (+14) | 1435 | 362 | 421 | 180 | 2.25 | 8.22 | 8.00 | 2.02 | 2.34 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---------------------------------------|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 547 | 138 | 160 | 121 | 1.60 | 3.10 | 4.52 | 1.14 | 1.32 | |
| -30 (-22) | 808 | 204 | 237 | 150 | 1.91 | 4.58 | 5.43 | 1.37 | 1.59 | |
| -25 (-13) | 1092 | 275 | 320 | 170 | 2.13 | 6.20 | 6.44 | 1.62 | 1.89 | |
| -20 (- 4) | 1387 | 349 | 406 | 183 | 2.27 | 7.89 | 7.56 | 1.91 | 2.22 | |
| -15 (+ 5) | 1682 | 424 | 493 | 190 | 2.37 | 9.61 | 8.79 | 2.22 | 2.58 | |
| -10 (+14) | 1969 | 496 | 577 | 193 | 2.44 | 11.28 | 10.13 | 2.55 | 2.97 | |

| TEST CONDITIONS: @115V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|--|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 546 | 138 | 160 | 123 | 1.67 | 3.09 | 4.41 | 1.11 | 1.29 | |
| -30 (-22) | 792 | 200 | 232 | 156 | 2.01 | 4.49 | 5.09 | 1.28 | 1.49 | |
| -25 (-13) | 1045 | 263 | 306 | 178 | 2.23 | 5.93 | 5.89 | 1.48 | 1.73 | |
| -20 (- 4) | 1295 | 326 | 379 | 191 | 2.36 | 7.37 | 6.81 | 1.72 | 1.99 | |
| -15 (+ 5) | 1532 | 386 | 449 | 196 | 2.42 | 8.74 | 7.84 | 1.98 | 2.30 | |
| -10 (+14) | 1744 | 440 | 511 | 194 | 2.43 | 9.99 | 8.99 | 2.27 | 2.63 | |

| TEST CONDITIONS: @115V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|--|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 505 | 127 | 148 | 128 | 1.70 | 2.85 | 3.98 | 1.00 | 1.17 | |
| -30 (-22) | 749 | 189 | 219 | 165 | 2.08 | 4.24 | 4.51 | 1.14 | 1.32 | |
| -25 (-13) | 985 | 248 | 289 | 189 | 2.33 | 5.59 | 5.17 | 1.30 | 1.52 | |
| -20 (- 4) | 1204 | 303 | 353 | 201 | 2.46 | 6.85 | 5.96 | 1.50 | 1.75 | |
| -15 (+ 5) | 1395 | 352 | 409 | 204 | 2.50 | 7.96 | 6.87 | 1.73 | 2.01 | |
| -10 (+14) | 1547 | 390 | 453 | 197 | 2.47 | 8.86 | 7.91 | 1.99 | 2.32 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------------------|------|--------------------------|
| 1 Base plate | Universal EG/F/AMEM version 2 | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Straight | | |
| 3.2 DISCHARGE | 4.94 +0.08/-0.08 | [mm] | (0.194" +0.003"/-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 | | |