

COMPRESSOR DEFINITION

| | |
|---------------------------|------------------------|
| Designation | VEM C9C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513906047 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|-----------------------------------|-----------------------------------|-------------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 230 / 40-150 | [V / Hz] | |
| 4 Application type | Low Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -10°C | (-31°F to 14°F) | |
| 5 Motor type | BPM | | |
| 6 Starting torque | LST - Low Starting Torque | | |
| 7 Expansion device | Capillary tube | | |
| 8 Compressor cooling | Operating voltage range | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | Static | 80 to 140 V | 80 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static | 80 to 140 V | 80 to 140 V |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing temperature | | | |
| 9.1 Operating | 6.9 | [kgf/cm ²] (98 psig) | / °C - °F |
| 9.2 Peak | 7.8 | [kgf/cm ²] (111 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation | 1/5 | [hp] |
| 2 Displacement | 9.04 | [cm ³] (0.552 cu.in) |
| 2.1 Bore [mm] | 24.000 | |
| 2.2 Stroke [mm] | 20.000 | |
| 3 Lubricant charge | 210 | [ml] (7.10 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 8 | [kg] (17.64 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 40-150 Hz 3 ~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | CF02D01 M 0.0 X/VCC32456XXXX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | VCC3 115623N01SH3.1 | |
| 6 Start winding resistance | 8.10 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 8.10 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (40/150 Hz) | 2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | 2.10 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (40/150 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC - UL - VDE | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @220V1600RPM | | | 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] |
| 292 | 74 | 86 | 44 | 0.35 | 0.92 | 6.65 | 1.68 | 1.95 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @220V2000RPM | | | 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] |
| 366 | 92 | 107 | 55 | 0.87 | 1.15 | 6.69 | 1.69 | 1.96 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @220V3000RPM | | | 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] |
| 543 | 137 | 159 | 81 | 0.62 | 1.70 | 6.70 | 1.69 | 1.96 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @220V4500RPM | | | 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] |
| 729 | 184 | 214 | 114 | 0.86 | 2.29 | 6.39 | 1.61 | 1.87 |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|---|----------------------------|----------------------------------|---------|-----------------------------|-------------------------------|-------------------------|---|--------|----------|-----------|
| TEST CONDITIONS: @220V1200RPM | | 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) | 122 | 31 | 36 | 20 | 0.38 | 0.38 | 5.98 | 1.51 | 1.75 |
| -30 | (-22) | 166 | 42 | 49 | 24 | 0.52 | 0.52 | 6.92 | 1.74 | 2.03 |
| -25 | (-13) | 220 | 55 | 64 | 28 | 0.69 | 0.69 | 7.98 | 2.01 | 2.34 |
| -20 | (- 4) | 284 | 71 | 83 | 31 | 0.89 | 0.89 | 9.22 | 2.32 | 2.70 |
| -15 | (+ 5) | 359 | 91 | 105 | 34 | 1.13 | 1.13 | 10.67 | 2.69 | 3.13 |
| -10 | (+14) | 449 | 113 | 131 | 36 | 1.41 | 1.41 | 12.40 | 3.12 | 3.63 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | 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) | 109 | 28 | 32 | 21 | 0.34 | 0.34 | 5.12 | 1.29 | 1.50 |
| -30 | (-22) | 154 | 39 | 45 | 26 | 0.48 | 0.48 | 5.93 | 1.50 | 1.74 |
| -25 | (-13) | 207 | 52 | 61 | 30 | 0.65 | 0.65 | 6.80 | 1.71 | 1.99 |
| -20 | (- 4) | 270 | 68 | 79 | 35 | 0.85 | 0.85 | 7.77 | 1.96 | 2.28 |
| -15 | (+ 5) | 346 | 87 | 101 | 39 | 1.09 | 1.09 | 8.89 | 2.24 | 2.60 |
| -10 | (+14) | 435 | 110 | 127 | 43 | 1.37 | 1.37 | 10.22 | 2.57 | 2.99 |

| TEST CONDITIONS: @220V1200RPM | | 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) | 94 | 24 | 27 | 21 | 0.29 | 0.29 | 4.37 | 1.10 | 1.28 |
| -30 | (-22) | 138 | 35 | 40 | 27 | 0.43 | 0.43 | 5.16 | 1.30 | 1.51 |
| -25 | (-13) | 191 | 48 | 56 | 32 | 0.60 | 0.60 | 5.95 | 1.50 | 1.74 |
| -20 | (- 4) | 255 | 64 | 75 | 38 | 0.80 | 0.80 | 6.77 | 1.71 | 1.98 |
| -15 | (+ 5) | 331 | 83 | 97 | 43 | 1.04 | 1.04 | 7.68 | 1.93 | 2.25 |
| -10 | (+14) | 420 | 106 | 123 | 48 | 1.32 | 1.32 | 8.72 | 2.20 | 2.56 |

| TEST CONDITIONS: @220V1600RPM | | 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) | 169 | 43 | 50 | 26 | 0.20 | 0.53 | 6.37 | 1.61 | 1.87 |
| -30 | (-22) | 228 | 58 | 67 | 31 | 0.24 | 0.72 | 7.25 | 1.83 | 2.12 |
| -25 | (-13) | 300 | 76 | 88 | 36 | 0.28 | 0.94 | 8.24 | 2.08 | 2.41 |
| -20 | (- 4) | 386 | 97 | 113 | 41 | 0.32 | 1.21 | 9.39 | 2.37 | 2.75 |
| -15 | (+ 5) | 488 | 123 | 143 | 45 | 0.35 | 1.53 | 10.75 | 2.71 | 3.15 |
| -10 | (+14) | 607 | 153 | 178 | 49 | 0.38 | 1.92 | 12.38 | 3.12 | 3.63 |

| TEST CONDITIONS: @220V1600RPM | | 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) | 153 | 38 | 45 | 28 | 0.21 | 0.48 | 5.50 | 1.39 | 1.61 |
| -30 | (-22) | 212 | 54 | 62 | 34 | 0.25 | 0.67 | 6.31 | 1.59 | 1.85 |
| -25 | (-13) | 284 | 72 | 83 | 40 | 0.30 | 0.89 | 7.15 | 1.80 | 2.09 |
| -20 | (- 4) | 370 | 93 | 108 | 46 | 0.35 | 1.16 | 8.07 | 2.03 | 2.36 |
| -15 | (+ 5) | 472 | 119 | 138 | 52 | 0.39 | 1.49 | 9.12 | 2.30 | 2.67 |
| -10 | (+14) | 592 | 149 | 173 | 57 | 0.43 | 1.87 | 10.36 | 2.61 | 3.03 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V1600RPM | | 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) | 134 | 34 | 39 | 29 | 0.22 | 0.42 | 4.66 | 1.17 | 1.36 | |
| -30 (-22) | 194 | 49 | 57 | 35 | 0.27 | 0.61 | 5.52 | 1.39 | 1.62 | |
| -25 (-13) | 266 | 67 | 78 | 42 | 0.32 | 0.83 | 6.33 | 1.60 | 1.86 | |
| -20 (- 4) | 351 | 89 | 103 | 49 | 0.37 | 1.10 | 7.14 | 1.80 | 2.09 | |
| -15 (+ 5) | 453 | 114 | 133 | 57 | 0.43 | 1.43 | 8.01 | 2.02 | 2.35 | |
| -10 (+14) | 573 | 144 | 168 | 64 | 0.49 | 1.81 | 8.97 | 2.26 | 2.63 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @220V2000RPM | | 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) | 213 | 54 | 62 | 33 | 0.25 | 0.67 | 6.45 | 1.63 | 1.89 | |
| -30 (-22) | 287 | 72 | 84 | 39 | 0.30 | 0.90 | 7.31 | 1.84 | 2.14 | |
| -25 (-13) | 376 | 95 | 110 | 46 | 0.35 | 1.18 | 8.26 | 2.08 | 2.42 | |
| -20 (- 4) | 483 | 122 | 142 | 52 | 0.40 | 1.52 | 9.35 | 2.36 | 2.74 | |
| -15 (+ 5) | 610 | 154 | 179 | 57 | 0.44 | 1.92 | 10.66 | 2.69 | 3.12 | |
| -10 (+14) | 759 | 191 | 222 | 62 | 0.47 | 2.39 | 12.23 | 3.08 | 3.58 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V2000RPM | | 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) | 194 | 49 | 57 | 35 | 0.26 | 0.61 | 5.61 | 1.41 | 1.64 | |
| -30 (-22) | 269 | 68 | 79 | 42 | 0.32 | 0.84 | 6.41 | 1.62 | 1.88 | |
| -25 (-13) | 358 | 90 | 105 | 49 | 0.38 | 1.12 | 7.22 | 1.82 | 2.12 | |
| -20 (- 4) | 464 | 117 | 136 | 57 | 0.44 | 1.46 | 8.09 | 2.04 | 2.37 | |
| -15 (+ 5) | 591 | 149 | 173 | 65 | 0.49 | 1.86 | 9.09 | 2.29 | 2.66 | |
| -10 (+14) | 740 | 187 | 217 | 72 | 0.55 | 2.34 | 10.28 | 2.59 | 3.01 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V2000RPM | | 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) | 171 | 43 | 50 | 36 | 0.27 | 0.54 | 4.74 | 1.19 | 1.39 | |
| -30 (-22) | 246 | 62 | 72 | 44 | 0.33 | 0.77 | 5.61 | 1.41 | 1.64 | |
| -25 (-13) | 335 | 84 | 98 | 52 | 0.40 | 1.05 | 6.41 | 1.62 | 1.88 | |
| -20 (- 4) | 442 | 111 | 129 | 62 | 0.47 | 1.39 | 7.20 | 1.81 | 2.11 | |
| -15 (+ 5) | 568 | 143 | 166 | 71 | 0.54 | 1.79 | 8.02 | 2.02 | 2.35 | |
| -10 (+14) | 717 | 181 | 210 | 80 | 0.61 | 2.26 | 8.95 | 2.26 | 2.62 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | 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] |
| -35 | (-31) | 314 | 79 | 92 | 50 | 0.38 | 0.98 | 6.25 | 1.58 | 1.83 |
| -30 | (-22) | 426 | 107 | 125 | 60 | 0.46 | 1.33 | 7.03 | 1.77 | 2.06 |
| -25 | (-13) | 561 | 141 | 164 | 71 | 0.54 | 1.76 | 7.91 | 1.99 | 2.32 |
| -20 | (- 4) | 722 | 182 | 212 | 81 | 0.62 | 2.27 | 8.94 | 2.25 | 2.62 |
| -15 | (+ 5) | 913 | 230 | 268 | 90 | 0.69 | 2.87 | 10.18 | 2.56 | 2.98 |
| -10 | (+14) | 1138 | 287 | 334 | 98 | 0.75 | 3.59 | 11.66 | 2.94 | 3.42 |

| TEST CONDITIONS: @220V3000RPM | | 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] |
| -35 | (-31) | 284 | 72 | 83 | 52 | 0.39 | 0.89 | 5.52 | 1.39 | 1.62 |
| -30 | (-22) | 396 | 100 | 116 | 64 | 0.48 | 1.24 | 6.22 | 1.57 | 1.82 |
| -25 | (-13) | 530 | 134 | 155 | 76 | 0.58 | 1.66 | 6.96 | 1.75 | 2.04 |
| -20 | (- 4) | 691 | 174 | 203 | 89 | 0.68 | 2.17 | 7.77 | 1.96 | 2.28 |
| -15 | (+ 5) | 883 | 222 | 259 | 101 | 0.77 | 2.78 | 8.71 | 2.19 | 2.55 |
| -10 | (+14) | 1108 | 279 | 325 | 113 | 0.86 | 3.50 | 9.83 | 2.48 | 2.88 |

| TEST CONDITIONS: @220V3000RPM | | 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] |
| -35 | (-31) | 247 | 62 | 72 | 52 | 0.39 | 0.77 | 4.76 | 1.20 | 1.40 |
| -30 | (-22) | 359 | 90 | 105 | 65 | 0.50 | 1.12 | 5.52 | 1.39 | 1.62 |
| -25 | (-13) | 493 | 124 | 144 | 79 | 0.61 | 1.55 | 6.22 | 1.57 | 1.82 |
| -20 | (- 4) | 654 | 165 | 192 | 95 | 0.72 | 2.06 | 6.94 | 1.75 | 2.03 |
| -15 | (+ 5) | 846 | 213 | 248 | 110 | 0.84 | 2.66 | 7.71 | 1.94 | 2.26 |
| -10 | (+14) | 1071 | 270 | 314 | 125 | 0.95 | 3.38 | 8.58 | 2.16 | 2.51 |

| TEST CONDITIONS: @220V4500RPM | | 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] |
| -35 | (-31) | 457 | 115 | 134 | 78 | 0.58 | 1.43 | 5.87 | 1.48 | 1.72 |
| -30 | (-22) | 605 | 152 | 177 | 97 | 0.68 | 1.90 | 6.14 | 1.55 | 1.80 |
| -25 | (-13) | 787 | 198 | 231 | 109 | 0.80 | 2.47 | 7.21 | 1.82 | 2.11 |
| -20 | (- 4) | 1006 | 254 | 295 | 116 | 0.91 | 3.16 | 8.71 | 2.19 | 2.55 |
| -15 | (+ 5) | 1265 | 319 | 371 | 124 | 1.02 | 3.98 | 10.24 | 2.58 | 3.00 |
| -10 | (+14) | 1568 | 395 | 459 | 138 | 1.12 | 4.95 | 11.41 | 2.88 | 3.34 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4500RPM | | 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) | 429 | 108 | 126 | 78 | 0.62 | 1.34 | 5.53 | 1.39 | 1.62 |
| -30 | (-22) | 574 | 145 | 168 | 97 | 0.74 | 1.80 | 5.93 | 1.49 | 1.74 |
| -25 | (-13) | 755 | 190 | 221 | 108 | 0.87 | 2.37 | 7.07 | 1.78 | 2.07 |
| -20 | (- 4) | 973 | 245 | 285 | 116 | 1.01 | 3.06 | 8.55 | 2.16 | 2.51 |
| -15 | (+ 5) | 1233 | 311 | 361 | 127 | 1.15 | 3.88 | 10.00 | 2.52 | 2.93 |
| -10 | (+14) | 1537 | 387 | 450 | 144 | 1.28 | 4.85 | 11.02 | 2.78 | 3.23 |

| TEST CONDITIONS: @220V4500RPM | | 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) | 389 | 98 | 114 | 86 | 0.66 | 1.22 | 4.49 | 1.13 | 1.31 |
| -30 | (-22) | 532 | 134 | 156 | 107 | 0.78 | 1.67 | 4.78 | 1.20 | 1.40 |
| -25 | (-13) | 712 | 179 | 209 | 123 | 0.92 | 2.23 | 5.74 | 1.45 | 1.68 |
| -20 | (- 4) | 930 | 234 | 273 | 136 | 1.08 | 2.92 | 6.98 | 1.76 | 2.04 |
| -15 | (+ 5) | 1192 | 300 | 349 | 153 | 1.25 | 3.75 | 8.10 | 2.04 | 2.37 |
| -10 | (+14) | 1498 | 377 | 439 | 177 | 1.41 | 4.73 | 8.73 | 2.20 | 2.56 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard EUEM | | |
| 2 Tray holder | Yes | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.2 +0.05/+0.05 | [mm] | (0.244" +0.002"/+0.002") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 40° up + 0° to Back | | |
| 3.2 DISCHARGE | 4.9 +0.10/-0.05 | [mm] | (0.193" +0.004"/-0.002") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 0° up + 24° to Back | | |
| 3.3 PROCESS | 6.2 +0.05/+0.05 | [mm] | (0.244" +0.002"/+0.002") |
| 3.3.1 Material | Copper | | |
| 3.3.2 Shape | Slanted 40° up + 45° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |