

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES D9C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907138 |

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 | 187 to 187 V | 255 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | Static | 187 to 187 V | 255 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 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 | 190 | [ml] (6.42 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 6.79 | [kg] (14.97 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 | PFC CF02D01 M | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | SP(PFC CF02D01M) | |
| 6 Start winding resistance | 9.60 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 9.60 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (40/150 Hz) | - | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | - | [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 | | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| TEST CONDITIONS: @220V1300RPM | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature) | | -25°C (-13°F) 55°C (131°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] |
| 167 | 42 | 49 | 34 | 0.25 | 0.64 | 4.97 | 1.25 | 1.46 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| TEST CONDITIONS: @220V1600RPM | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature) | | -25°C (-13°F) 55°C (131°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] |
| 209 | 53 | 61 | 41 | 0.31 | 0.80 | 5.15 | 1.30 | 1.51 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| TEST CONDITIONS: @220V2000RPM | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature) | | -25°C (-13°F) 55°C (131°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] |
| 272 | 69 | 80 | 52 | 0.40 | 1.04 | 5.21 | 1.31 | 1.53 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| TEST CONDITIONS: @220V3000RPM | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature) | | -25°C (-13°F) 55°C (131°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] |
| 413 | 104 | 121 | 81 | 0.60 | 1.57 | 5.13 | 1.29 | 1.50 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| TEST CONDITIONS: @220V4500RPM | | | CECOMAFLBP Static | | Evaporating temperature (Condensing temperature) | | -25°C (-13°F) 55°C (131°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 | 123 | 0.85 | 2.27 | 4.82 | 1.21 | 1.41 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1300RPM | | CECOMAF 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) | 135 | 34 | 39 | 22 | 0.17 | 0.43 | 6.10 | 1.54 | 1.79 |
| -30 | (-22) | 179 | 45 | 53 | 25 | 0.22 | 0.58 | 7.03 | 1.77 | 2.06 |
| -25 | (-13) | 235 | 59 | 69 | 29 | 0.25 | 0.75 | 8.06 | 2.03 | 2.36 |
| -20 | (- 4) | 303 | 76 | 89 | 33 | 0.27 | 0.97 | 9.22 | 2.32 | 2.70 |
| -15 | (+ 5) | 384 | 97 | 113 | 37 | 0.29 | 1.24 | 10.53 | 2.65 | 3.08 |
| -10 | (+14) | 480 | 121 | 141 | 40 | 0.31 | 1.55 | 12.03 | 3.03 | 3.52 |

| TEST CONDITIONS: @220V1300RPM | | CECOMAF 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) | 109 | 28 | 32 | 22 | 0.20 | 0.38 | 4.97 | 1.25 | 1.45 |
| -30 | (-22) | 152 | 38 | 44 | 27 | 0.23 | 0.53 | 5.65 | 1.42 | 1.66 |
| -25 | (-13) | 205 | 52 | 60 | 32 | 0.25 | 0.71 | 6.39 | 1.61 | 1.87 |
| -20 | (- 4) | 269 | 68 | 79 | 37 | 0.28 | 0.94 | 7.21 | 1.82 | 2.11 |
| -15 | (+ 5) | 346 | 87 | 101 | 42 | 0.31 | 1.21 | 8.15 | 2.05 | 2.39 |
| -10 | (+14) | 438 | 110 | 128 | 47 | 0.36 | 1.53 | 9.24 | 2.33 | 2.71 |

| TEST CONDITIONS: @220V1300RPM | | CECOMAF 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) | 87 | 22 | 26 | 23 | 0.18 | 0.33 | 3.73 | 0.94 | 1.09 |
| -30 | (-22) | 122 | 31 | 36 | 28 | 0.21 | 0.46 | 4.34 | 1.09 | 1.27 |
| -25 | (-13) | 167 | 42 | 49 | 34 | 0.25 | 0.64 | 4.97 | 1.25 | 1.46 |
| -20 | (- 4) | 223 | 56 | 65 | 40 | 0.30 | 0.85 | 5.64 | 1.42 | 1.65 |
| -15 | (+ 5) | 292 | 73 | 85 | 46 | 0.38 | 1.12 | 6.38 | 1.61 | 1.87 |
| -10 | (+14) | 374 | 94 | 110 | 52 | 0.48 | 1.44 | 7.23 | 1.82 | 2.12 |

| TEST CONDITIONS: @220V1600RPM | | CECOMAF 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) | 169 | 43 | 50 | 27 | 0.22 | 0.54 | 6.17 | 1.56 | 1.81 |
| -30 | (-22) | 225 | 57 | 66 | 32 | 0.27 | 0.72 | 7.02 | 1.77 | 2.06 |
| -25 | (-13) | 292 | 74 | 86 | 37 | 0.30 | 0.94 | 7.99 | 2.01 | 2.34 |
| -20 | (- 4) | 374 | 94 | 110 | 41 | 0.33 | 1.20 | 9.11 | 2.30 | 2.67 |
| -15 | (+ 5) | 473 | 119 | 139 | 46 | 0.36 | 1.52 | 10.41 | 2.62 | 3.05 |
| -10 | (+14) | 593 | 149 | 174 | 50 | 0.39 | 1.91 | 11.92 | 3.00 | 3.49 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1600RPM | | CECOMAF 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) | 137 | 35 | 40 | 28 | 0.23 | 0.48 | 5.07 | 1.28 | 1.49 |
| -30 | (-22) | 192 | 48 | 56 | 33 | 0.27 | 0.67 | 5.75 | 1.45 | 1.69 |
| -25 | (-13) | 257 | 65 | 75 | 39 | 0.30 | 0.89 | 6.49 | 1.63 | 1.90 |
| -20 | (- 4) | 336 | 85 | 98 | 46 | 0.34 | 1.17 | 7.31 | 1.84 | 2.14 |
| -15 | (+ 5) | 431 | 109 | 126 | 52 | 0.38 | 1.51 | 8.25 | 2.08 | 2.42 |
| -10 | (+14) | 546 | 138 | 160 | 58 | 0.44 | 1.91 | 9.34 | 2.35 | 2.74 |

| TEST CONDITIONS: @220V1600RPM | | CECOMAF 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) | 112 | 28 | 33 | 28 | 0.22 | 0.43 | 3.88 | 0.98 | 1.14 |
| -30 | (-22) | 156 | 39 | 46 | 34 | 0.26 | 0.59 | 4.52 | 1.14 | 1.33 |
| -25 | (-13) | 209 | 53 | 61 | 41 | 0.31 | 0.80 | 5.15 | 1.30 | 1.51 |
| -20 | (- 4) | 275 | 69 | 81 | 48 | 0.36 | 1.05 | 5.80 | 1.46 | 1.70 |
| -15 | (+ 5) | 357 | 90 | 105 | 55 | 0.44 | 1.37 | 6.51 | 1.64 | 1.91 |
| -10 | (+14) | 457 | 115 | 134 | 63 | 0.52 | 1.76 | 7.30 | 1.84 | 2.14 |

| TEST CONDITIONS: @220V2000RPM | | CECOMAF 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) | 210 | 53 | 62 | 34 | 0.27 | 0.67 | 6.11 | 1.54 | 1.79 |
| -30 | (-22) | 282 | 71 | 83 | 40 | 0.31 | 0.91 | 7.00 | 1.76 | 2.05 |
| -25 | (-13) | 370 | 93 | 108 | 46 | 0.36 | 1.19 | 7.97 | 2.01 | 2.33 |
| -20 | (- 4) | 475 | 120 | 139 | 53 | 0.41 | 1.53 | 9.04 | 2.28 | 2.65 |
| -15 | (+ 5) | 601 | 151 | 176 | 59 | 0.45 | 1.93 | 10.28 | 2.59 | 3.01 |
| -10 | (+14) | 750 | 189 | 220 | 64 | 0.50 | 2.42 | 11.71 | 2.95 | 3.43 |

| TEST CONDITIONS: @220V2000RPM | | CECOMAF 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) | 179 | 45 | 52 | 36 | 0.28 | 0.62 | 5.03 | 1.27 | 1.47 |
| -30 | (-22) | 244 | 62 | 72 | 42 | 0.33 | 0.85 | 5.75 | 1.45 | 1.68 |
| -25 | (-13) | 323 | 81 | 95 | 50 | 0.38 | 1.12 | 6.49 | 1.64 | 1.90 |
| -20 | (- 4) | 418 | 105 | 122 | 57 | 0.44 | 1.46 | 7.30 | 1.84 | 2.14 |
| -15 | (+ 5) | 531 | 134 | 156 | 65 | 0.49 | 1.86 | 8.21 | 2.07 | 2.41 |
| -10 | (+14) | 666 | 168 | 195 | 72 | 0.54 | 2.33 | 9.27 | 2.34 | 2.72 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V2000RPM | | CECOMAF 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) | 142 | 36 | 42 | 36 | 0.27 | 0.54 | 3.97 | 1.00 | 1.16 | |
| -30 (-22) | 201 | 51 | 59 | 44 | 0.34 | 0.76 | 4.61 | 1.16 | 1.35 | |
| -25 (-13) | 272 | 69 | 80 | 52 | 0.40 | 1.04 | 5.22 | 1.31 | 1.53 | |
| -20 (- 4) | 357 | 90 | 105 | 61 | 0.47 | 1.36 | 5.84 | 1.47 | 1.71 | |
| -15 (+ 5) | 458 | 116 | 134 | 70 | 0.53 | 1.76 | 6.52 | 1.64 | 1.91 | |
| -10 (+14) | 579 | 146 | 170 | 79 | 0.59 | 2.22 | 7.30 | 1.84 | 2.14 | |

| TEST CONDITIONS: @220V3000RPM | | CECOMAF 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) | 312 | 79 | 91 | 53 | 0.40 | 1.00 | 5.84 | 1.47 | 1.71 | |
| -30 (-22) | 428 | 108 | 126 | 63 | 0.47 | 1.37 | 6.75 | 1.70 | 1.98 | |
| -25 (-13) | 565 | 142 | 166 | 74 | 0.55 | 1.81 | 7.68 | 1.94 | 2.25 | |
| -20 (- 4) | 726 | 183 | 213 | 84 | 0.62 | 2.33 | 8.66 | 2.18 | 2.54 | |
| -15 (+ 5) | 914 | 230 | 268 | 94 | 0.69 | 2.94 | 9.71 | 2.45 | 2.85 | |
| -10 (+14) | 1132 | 285 | 332 | 105 | 0.76 | 3.65 | 10.84 | 2.73 | 3.18 | |

| TEST CONDITIONS: @220V3000RPM | | CECOMAF 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) | 259 | 65 | 76 | 54 | 0.41 | 0.90 | 4.82 | 1.21 | 1.41 | |
| -30 (-22) | 364 | 92 | 107 | 65 | 0.50 | 1.27 | 5.55 | 1.40 | 1.63 | |
| -25 (-13) | 489 | 123 | 143 | 77 | 0.58 | 1.70 | 6.30 | 1.59 | 1.85 | |
| -20 (- 4) | 637 | 160 | 187 | 90 | 0.66 | 2.22 | 7.09 | 1.79 | 2.08 | |
| -15 (+ 5) | 810 | 204 | 237 | 102 | 0.74 | 2.83 | 7.93 | 2.00 | 2.32 | |
| -10 (+14) | 1013 | 255 | 297 | 115 | 0.82 | 3.55 | 8.85 | 2.23 | 2.59 | |

| TEST CONDITIONS: @220V3000RPM | | CECOMAF 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) | 213 | 54 | 62 | 54 | 0.40 | 0.81 | 3.93 | 0.99 | 1.15 | |
| -30 (-22) | 304 | 77 | 89 | 67 | 0.50 | 1.15 | 4.53 | 1.14 | 1.33 | |
| -25 (-13) | 413 | 104 | 121 | 80 | 0.60 | 1.57 | 5.13 | 1.29 | 1.50 | |
| -20 (- 4) | 543 | 137 | 159 | 94 | 0.70 | 2.08 | 5.76 | 1.45 | 1.69 | |
| -15 (+ 5) | 699 | 176 | 205 | 108 | 0.79 | 2.68 | 6.43 | 1.62 | 1.89 | |
| -10 (+14) | 882 | 222 | 259 | 123 | 0.89 | 3.39 | 7.17 | 1.81 | 2.10 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4500RPM | | CECOMAF 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) | 447 | 113 | 131 | 83 | 0.61 | 1.43 | 5.37 | 1.35 | 1.57 |
| -30 | (-22) | 590 | 149 | 173 | 97 | 0.69 | 1.90 | 6.11 | 1.54 | 1.79 |
| -25 | (-13) | 749 | 189 | 220 | 109 | 0.76 | 2.41 | 6.92 | 1.74 | 2.03 |
| -20 | (- 4) | 943 | 238 | 276 | 121 | 0.83 | 3.03 | 7.80 | 1.97 | 2.29 |
| -15 | (+ 5) | 1188 | 299 | 348 | 135 | 0.91 | 3.82 | 8.76 | 2.21 | 2.57 |
| -10 | (+14) | 1504 | 379 | 441 | 152 | 1.00 | 4.85 | 9.80 | 2.47 | 2.87 |

| TEST CONDITIONS: @220V4500RPM | | CECOMAF 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) | 401 | 101 | 118 | 86 | 0.64 | 1.39 | 4.63 | 1.17 | 1.36 |
| -30 | (-22) | 535 | 135 | 157 | 102 | 0.73 | 1.86 | 5.22 | 1.31 | 1.53 |
| -25 | (-13) | 677 | 171 | 198 | 116 | 0.82 | 2.36 | 5.86 | 1.48 | 1.72 |
| -20 | (- 4) | 847 | 213 | 248 | 130 | 0.89 | 2.95 | 6.56 | 1.65 | 1.92 |
| -15 | (+ 5) | 1061 | 267 | 311 | 145 | 0.97 | 3.71 | 7.33 | 1.85 | 2.15 |
| -10 | (+14) | 1338 | 337 | 392 | 163 | 1.06 | 4.69 | 8.18 | 2.06 | 2.40 |

| TEST CONDITIONS: @220V4500RPM | | CECOMAF 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) | 324 | 82 | 95 | 86 | 0.63 | 1.24 | 3.79 | 0.96 | 1.11 |
| -30 | (-22) | 458 | 115 | 134 | 105 | 0.75 | 1.73 | 4.28 | 1.08 | 1.25 |
| -25 | (-13) | 595 | 150 | 174 | 123 | 0.85 | 2.26 | 4.81 | 1.21 | 1.41 |
| -20 | (- 4) | 751 | 189 | 220 | 139 | 0.94 | 2.87 | 5.39 | 1.36 | 1.58 |
| -15 | (+ 5) | 945 | 238 | 277 | 157 | 1.03 | 3.63 | 6.03 | 1.52 | 1.77 |
| -10 | (+14) | 1195 | 301 | 350 | 177 | 1.12 | 4.60 | 6.75 | 1.70 | 1.98 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard VES | | |
| 2 Tray holder | Yes | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.1 +0.10/+0.00 | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 45° up + 15° 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 47° up + 59° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |