

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES A9C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907219 |

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 255 V | 187 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | - | - | - |
| 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 | 200 | [ml] (6.76 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 6.08 | [kg] (13.40 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 | VES 2456 XX X X | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | INVERTER VES 2456X | |
| 6 Start winding resistance | 11.50 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 11.50 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (40/150 Hz) | 2.10/2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | 2.10/2.10 | [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 | | |

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] |
| 168 | 42 | 49 | 36 | 0.30 | 0.64 | 4.71 | 1.19 | 1.38 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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 | 42 | 0.35 | 0.80 | 4.95 | 1.25 | 1.45 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 264 | 67 | 77 | 53 | 0.43 | 1.01 | 5.02 | 1.27 | 1.47 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 404 | 102 | 118 | 81 | 0.62 | 1.54 | 5.01 | 1.26 | 1.47 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 573 | 144 | 168 | 124 | 0.95 | 2.18 | 4.61 | 1.16 | 1.35 |

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) | 134 | 34 | 39 | 24 | 0.21 | 0.43 | 5.67 | 1.43 | 1.66 |
| -30 | (-22) | 177 | 45 | 52 | 27 | 0.24 | 0.57 | 6.52 | 1.64 | 1.91 |
| -25 | (-13) | 232 | 58 | 68 | 31 | 0.28 | 0.74 | 7.35 | 1.85 | 2.15 |
| -20 | (- 4) | 300 | 75 | 88 | 36 | 0.32 | 0.96 | 8.26 | 2.08 | 2.42 |
| -15 | (+ 5) | 381 | 96 | 112 | 41 | 0.35 | 1.23 | 9.35 | 2.36 | 2.74 |
| -10 | (+14) | 478 | 120 | 140 | 45 | 0.38 | 1.54 | 10.70 | 2.70 | 3.13 |

| 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) | 110 | 28 | 32 | 23 | 0.21 | 0.38 | 4.79 | 1.21 | 1.40 |
| -30 | (-22) | 153 | 38 | 45 | 28 | 0.25 | 0.53 | 5.38 | 1.36 | 1.58 |
| -25 | (-13) | 205 | 52 | 60 | 35 | 0.29 | 0.72 | 5.91 | 1.49 | 1.73 |
| -20 | (- 4) | 270 | 68 | 79 | 41 | 0.34 | 0.94 | 6.46 | 1.63 | 1.89 |
| -15 | (+ 5) | 347 | 87 | 102 | 48 | 0.39 | 1.21 | 7.14 | 1.80 | 2.09 |
| -10 | (+14) | 438 | 110 | 128 | 54 | 0.44 | 1.53 | 8.02 | 2.02 | 2.35 |

| 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) | 91 | 23 | 27 | 24 | 0.21 | 0.35 | 3.72 | 0.94 | 1.09 |
| -30 | (-22) | 125 | 32 | 37 | 29 | 0.25 | 0.48 | 4.27 | 1.08 | 1.25 |
| -25 | (-13) | 168 | 42 | 49 | 36 | 0.30 | 0.64 | 4.70 | 1.18 | 1.38 |
| -20 | (- 4) | 222 | 56 | 65 | 44 | 0.37 | 0.85 | 5.10 | 1.28 | 1.49 |
| -15 | (+ 5) | 287 | 72 | 84 | 52 | 0.44 | 1.10 | 5.56 | 1.40 | 1.63 |
| -10 | (+14) | 364 | 92 | 107 | 59 | 0.52 | 1.40 | 6.19 | 1.56 | 1.81 |

| 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) | 158 | 40 | 46 | 28 | 0.24 | 0.50 | 5.73 | 1.44 | 1.68 |
| -30 | (-22) | 212 | 53 | 62 | 33 | 0.28 | 0.68 | 6.53 | 1.64 | 1.91 |
| -25 | (-13) | 280 | 71 | 82 | 38 | 0.32 | 0.90 | 7.40 | 1.86 | 2.17 |
| -20 | (- 4) | 365 | 92 | 107 | 43 | 0.36 | 1.17 | 8.41 | 2.12 | 2.46 |
| -15 | (+ 5) | 468 | 118 | 137 | 49 | 0.40 | 1.50 | 9.59 | 2.42 | 2.81 |
| -10 | (+14) | 590 | 149 | 173 | 54 | 0.44 | 1.90 | 10.99 | 2.77 | 3.22 |

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) | 144 | 36 | 42 | 29 | 0.27 | 0.50 | 4.94 | 1.25 | 1.45 |
| -30 | (-22) | 191 | 48 | 56 | 35 | 0.31 | 0.67 | 5.53 | 1.39 | 1.62 |
| -25 | (-13) | 250 | 63 | 73 | 41 | 0.35 | 0.87 | 6.11 | 1.54 | 1.79 |
| -20 | (- 4) | 324 | 82 | 95 | 48 | 0.40 | 1.13 | 6.74 | 1.70 | 1.98 |
| -15 | (+ 5) | 412 | 104 | 121 | 55 | 0.44 | 1.44 | 7.47 | 1.88 | 2.19 |
| -10 | (+14) | 519 | 131 | 152 | 62 | 0.49 | 1.82 | 8.34 | 2.10 | 2.44 |

| 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) | 109 | 28 | 32 | 29 | 0.25 | 0.42 | 3.82 | 0.96 | 1.12 |
| -30 | (-22) | 154 | 39 | 45 | 35 | 0.29 | 0.59 | 4.43 | 1.12 | 1.30 |
| -25 | (-13) | 209 | 53 | 61 | 42 | 0.35 | 0.80 | 4.95 | 1.25 | 1.45 |
| -20 | (- 4) | 276 | 69 | 81 | 51 | 0.41 | 1.05 | 5.44 | 1.37 | 1.59 |
| -15 | (+ 5) | 356 | 90 | 104 | 60 | 0.48 | 1.36 | 5.93 | 1.50 | 1.74 |
| -10 | (+14) | 451 | 114 | 132 | 69 | 0.55 | 1.73 | 6.49 | 1.64 | 1.90 |

| 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) | 201 | 51 | 59 | 35 | 0.30 | 0.64 | 5.75 | 1.45 | 1.69 |
| -30 | (-22) | 275 | 69 | 81 | 41 | 0.34 | 0.88 | 6.61 | 1.67 | 1.94 |
| -25 | (-13) | 365 | 92 | 107 | 48 | 0.38 | 1.17 | 7.53 | 1.90 | 2.21 |
| -20 | (- 4) | 471 | 119 | 138 | 55 | 0.43 | 1.51 | 8.55 | 2.15 | 2.50 |
| -15 | (+ 5) | 596 | 150 | 175 | 62 | 0.49 | 1.92 | 9.68 | 2.44 | 2.84 |
| -10 | (+14) | 741 | 187 | 217 | 68 | 0.54 | 2.39 | 10.97 | 2.76 | 3.21 |

| 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) | 173 | 44 | 51 | 36 | 0.29 | 0.60 | 4.85 | 1.22 | 1.42 |
| -30 | (-22) | 239 | 60 | 70 | 43 | 0.35 | 0.83 | 5.51 | 1.39 | 1.61 |
| -25 | (-13) | 318 | 80 | 93 | 51 | 0.41 | 1.11 | 6.18 | 1.56 | 1.81 |
| -20 | (- 4) | 414 | 104 | 121 | 60 | 0.47 | 1.44 | 6.89 | 1.74 | 2.02 |
| -15 | (+ 5) | 528 | 133 | 155 | 68 | 0.54 | 1.84 | 7.69 | 1.94 | 2.25 |
| -10 | (+14) | 663 | 167 | 194 | 77 | 0.61 | 2.32 | 8.59 | 2.16 | 2.52 |

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) | 143 | 36 | 42 | 36 | 0.29 | 0.54 | 3.96 | 1.00 | 1.16 | |
| -30 (-22) | 196 | 49 | 58 | 44 | 0.36 | 0.75 | 4.50 | 1.14 | 1.32 | |
| -25 (-13) | 264 | 67 | 77 | 53 | 0.43 | 1.01 | 5.02 | 1.27 | 1.47 | |
| -20 (- 4) | 348 | 88 | 102 | 63 | 0.50 | 1.33 | 5.54 | 1.40 | 1.62 | |
| -15 (+ 5) | 450 | 113 | 132 | 74 | 0.58 | 1.72 | 6.09 | 1.53 | 1.78 | |
| -10 (+14) | 573 | 144 | 168 | 85 | 0.66 | 2.20 | 6.70 | 1.69 | 1.96 | |

| 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 | 54 | 0.42 | 1.00 | 5.82 | 1.47 | 1.71 | |
| -30 (-22) | 422 | 106 | 124 | 64 | 0.49 | 1.35 | 6.62 | 1.67 | 1.94 | |
| -25 (-13) | 556 | 140 | 163 | 75 | 0.57 | 1.79 | 7.44 | 1.88 | 2.18 | |
| -20 (- 4) | 716 | 181 | 210 | 86 | 0.66 | 2.30 | 8.32 | 2.10 | 2.44 | |
| -15 (+ 5) | 907 | 229 | 266 | 98 | 0.75 | 2.92 | 9.28 | 2.34 | 2.72 | |
| -10 (+14) | 1131 | 285 | 331 | 109 | 0.84 | 3.65 | 10.35 | 2.61 | 3.03 | |

| 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) | 263 | 66 | 77 | 54 | 0.43 | 0.91 | 4.83 | 1.22 | 1.41 | |
| -30 (-22) | 360 | 91 | 105 | 66 | 0.51 | 1.25 | 5.46 | 1.38 | 1.60 | |
| -25 (-13) | 478 | 121 | 140 | 78 | 0.61 | 1.66 | 6.09 | 1.54 | 1.79 | |
| -20 (- 4) | 622 | 157 | 182 | 92 | 0.71 | 2.17 | 6.76 | 1.70 | 1.98 | |
| -15 (+ 5) | 795 | 200 | 233 | 106 | 0.81 | 2.78 | 7.48 | 1.89 | 2.19 | |
| -10 (+14) | 999 | 252 | 293 | 120 | 0.92 | 3.50 | 8.30 | 2.09 | 2.43 | |

| 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) | 218 | 55 | 64 | 55 | 0.43 | 0.83 | 3.98 | 1.00 | 1.17 | |
| -30 (-22) | 301 | 76 | 88 | 67 | 0.52 | 1.14 | 4.51 | 1.14 | 1.32 | |
| -25 (-13) | 404 | 102 | 118 | 81 | 0.62 | 1.54 | 5.01 | 1.26 | 1.47 | |
| -20 (- 4) | 531 | 134 | 156 | 96 | 0.74 | 2.03 | 5.52 | 1.39 | 1.62 | |
| -15 (+ 5) | 685 | 173 | 201 | 113 | 0.86 | 2.62 | 6.07 | 1.53 | 1.78 | |
| -10 (+14) | 869 | 219 | 255 | 130 | 0.98 | 3.34 | 6.70 | 1.69 | 1.96 | |

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] | [W/W] |
| -35 (-31) | 463 | 117 | 136 | 87 | 0.67 | 1.48 | 5.35 | 1.35 | 1.57 | |
| -30 (-22) | 603 | 152 | 177 | 100 | 0.74 | 1.94 | 6.02 | 1.52 | 1.76 | |
| -25 (-13) | 774 | 195 | 227 | 115 | 0.85 | 2.49 | 6.72 | 1.69 | 1.97 | |
| -20 (- 4) | 984 | 248 | 288 | 132 | 0.99 | 3.16 | 7.46 | 1.88 | 2.19 | |
| -15 (+ 5) | 1240 | 313 | 363 | 150 | 1.14 | 3.99 | 8.27 | 2.08 | 2.42 | |
| -10 (+14) | 1552 | 391 | 455 | 170 | 1.28 | 5.00 | 9.15 | 2.31 | 2.68 | |

| 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] | [W/W] |
| -35 (-31) | 400 | 101 | 117 | 89 | 0.69 | 1.39 | 4.47 | 1.13 | 1.31 | |
| -30 (-22) | 524 | 132 | 154 | 105 | 0.79 | 1.82 | 5.00 | 1.26 | 1.47 | |
| -25 (-13) | 676 | 170 | 198 | 122 | 0.93 | 2.35 | 5.57 | 1.40 | 1.63 | |
| -20 (- 4) | 863 | 217 | 253 | 140 | 1.07 | 3.01 | 6.18 | 1.56 | 1.81 | |
| -15 (+ 5) | 1093 | 275 | 320 | 160 | 1.21 | 3.82 | 6.86 | 1.73 | 2.01 | |
| -10 (+14) | 1374 | 346 | 403 | 180 | 1.33 | 4.81 | 7.62 | 1.92 | 2.23 | |

| 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] | [W/W] |
| -35 (-31) | 317 | 80 | 93 | 86 | 0.67 | 1.21 | 3.68 | 0.93 | 1.08 | |
| -30 (-22) | 433 | 109 | 127 | 104 | 0.80 | 1.65 | 4.13 | 1.04 | 1.21 | |
| -25 (-13) | 573 | 144 | 168 | 124 | 0.95 | 2.18 | 4.61 | 1.16 | 1.35 | |
| -20 (- 4) | 745 | 188 | 218 | 145 | 1.10 | 2.84 | 5.14 | 1.30 | 1.51 | |
| -15 (+ 5) | 956 | 241 | 280 | 167 | 1.22 | 3.66 | 5.74 | 1.45 | 1.68 | |
| -10 (+14) | 1216 | 306 | 356 | 189 | 1.32 | 4.67 | 6.42 | 1.62 | 1.88 | |

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 | | |