

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES D5C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907163 |

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-Medium Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -5°C | (-31°F to 23°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 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 | 5.19 | [cm ³] (0.317 cu.in) |
| 2.1 Bore [mm] | 21.000 | |
| 2.2 Stroke [mm] | 15.000 | |
| 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) | 6.47 | [kg] (14.26 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 | VCC3 1156 XXXXX/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 | 13.40 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 13.40 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (46/133 Hz) | 2.10/2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (46/133 Hz) | 2.10/2.10 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (46/133 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC - VDE | |

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] |
| 85 | 21 | 25 | 18 | 0.17 | 0.32 | 4.67 | 1.18 | 1.37 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| 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] |
| 105 | 26 | 31 | 22 | 0.20 | 0.40 | 4.75 | 1.20 | 1.39 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| 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] |
| 137 | 35 | 40 | 28 | 0.24 | 0.52 | 4.89 | 1.23 | 1.43 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| 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] |
| 209 | 53 | 61 | 44 | 0.36 | 0.80 | 4.80 | 1.21 | 1.41 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---|-----------|-------|
| 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] |
| 317 | 80 | 93 | 69 | 0.54 | 1.21 | 4.60 | 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] | [W/W] |
| -35 (-31) | 73 | 18 | 21 | 13 | 0.12 | 0.23 | 5.42 | 1.36 | 1.59 | |
| -30 (-22) | 96 | 24 | 28 | 15 | 0.14 | 0.31 | 6.28 | 1.58 | 1.84 | |
| -25 (-13) | 126 | 32 | 37 | 17 | 0.16 | 0.40 | 7.28 | 1.83 | 2.13 | |
| -20 (- 4) | 163 | 41 | 48 | 19 | 0.18 | 0.52 | 8.48 | 2.14 | 2.48 | |
| -15 (+ 5) | 209 | 53 | 61 | 21 | 0.19 | 0.67 | 9.93 | 2.50 | 2.91 | |
| -10 (+14) | 265 | 67 | 78 | 23 | 0.20 | 0.86 | 11.69 | 2.95 | 3.43 | |
| -5 (+23) | 333 | 84 | 98 | 24 | 0.21 | 1.08 | 13.82 | 3.48 | 4.05 | |

| 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] | [W/W] |
| -35 (-31) | 55 | 14 | 16 | 12 | 0.12 | 0.19 | 4.50 | 1.13 | 1.32 | |
| -30 (-22) | 78 | 20 | 23 | 15 | 0.14 | 0.27 | 5.24 | 1.32 | 1.53 | |
| -25 (-13) | 106 | 27 | 31 | 18 | 0.16 | 0.37 | 5.99 | 1.51 | 1.76 | |
| -20 (- 4) | 140 | 35 | 41 | 20 | 0.19 | 0.49 | 6.83 | 1.72 | 2.00 | |
| -15 (+ 5) | 182 | 46 | 53 | 23 | 0.21 | 0.63 | 7.80 | 1.96 | 2.28 | |
| -10 (+14) | 232 | 58 | 68 | 26 | 0.23 | 0.81 | 8.95 | 2.26 | 2.62 | |
| -5 (+23) | 293 | 74 | 86 | 28 | 0.24 | 1.03 | 10.35 | 2.61 | 3.03 | |

| 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] | [W/W] |
| -35 (-31) | 35 | 9 | 10 | 12 | 0.12 | 0.13 | 2.99 | 0.75 | 0.88 | |
| -30 (-22) | 58 | 15 | 17 | 15 | 0.14 | 0.22 | 3.88 | 0.98 | 1.14 | |
| -25 (-13) | 85 | 21 | 25 | 18 | 0.17 | 0.32 | 4.67 | 1.18 | 1.37 | |
| -20 (- 4) | 117 | 29 | 34 | 22 | 0.20 | 0.45 | 5.42 | 1.37 | 1.59 | |
| -15 (+ 5) | 154 | 39 | 45 | 25 | 0.22 | 0.59 | 6.18 | 1.56 | 1.81 | |
| -10 (+14) | 199 | 50 | 58 | 28 | 0.25 | 0.77 | 7.01 | 1.77 | 2.05 | |
| -5 (+23) | 253 | 64 | 74 | 32 | 0.27 | 0.97 | 7.96 | 2.01 | 2.33 | |

E - PERFORMANCE - CURVES

| 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] | [W/W] |
| -35 (-31) | 85 | 21 | 25 | 15 | 0.14 | 0.27 | 5.50 | 1.39 | 1.61 | |
| -30 (-22) | 115 | 29 | 34 | 18 | 0.17 | 0.37 | 6.31 | 1.59 | 1.85 | |
| -25 (-13) | 154 | 39 | 45 | 21 | 0.19 | 0.49 | 7.33 | 1.85 | 2.15 | |
| -20 (- 4) | 203 | 51 | 59 | 24 | 0.21 | 0.65 | 8.59 | 2.16 | 2.52 | |
| -15 (+ 5) | 262 | 66 | 77 | 26 | 0.23 | 0.84 | 10.10 | 2.54 | 2.96 | |
| -10 (+14) | 334 | 84 | 98 | 28 | 0.24 | 1.08 | 11.89 | 3.00 | 3.48 | |
| -5 (+23) | 417 | 105 | 122 | 30 | 0.25 | 1.35 | 13.98 | 3.52 | 4.10 | |

| 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) | 72 | 18 | 21 | 15 | 0.14 | 0.25 | 4.74 | 1.19 | 1.39 | |
| -30 (-22) | 98 | 25 | 29 | 18 | 0.17 | 0.34 | 5.33 | 1.34 | 1.56 | |
| -25 (-13) | 132 | 33 | 39 | 22 | 0.19 | 0.46 | 6.04 | 1.52 | 1.77 | |
| -20 (- 4) | 175 | 44 | 51 | 25 | 0.22 | 0.61 | 6.90 | 1.74 | 2.02 | |
| -15 (+ 5) | 227 | 57 | 67 | 29 | 0.25 | 0.79 | 7.92 | 2.00 | 2.32 | |
| -10 (+14) | 290 | 73 | 85 | 32 | 0.27 | 1.02 | 9.13 | 2.30 | 2.68 | |
| -5 (+23) | 364 | 92 | 107 | 35 | 0.29 | 1.28 | 10.56 | 2.66 | 3.09 | |

| 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) | 51 | 13 | 15 | 15 | 0.13 | 0.20 | 3.47 | 0.88 | 1.02 | |
| -30 (-22) | 75 | 19 | 22 | 18 | 0.16 | 0.28 | 4.10 | 1.03 | 1.20 | |
| -25 (-13) | 105 | 27 | 31 | 22 | 0.20 | 0.40 | 4.75 | 1.20 | 1.39 | |
| -20 (- 4) | 144 | 36 | 42 | 26 | 0.23 | 0.55 | 5.45 | 1.37 | 1.60 | |
| -15 (+ 5) | 191 | 48 | 56 | 31 | 0.26 | 0.73 | 6.24 | 1.57 | 1.83 | |
| -10 (+14) | 248 | 62 | 73 | 35 | 0.29 | 0.95 | 7.12 | 1.79 | 2.09 | |
| -5 (+23) | 314 | 79 | 92 | 39 | 0.32 | 1.21 | 8.13 | 2.05 | 2.38 | |

E - PERFORMANCE - CURVES

| 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) | 110 | 28 | 32 | 19 | 0.17 | 0.35 | 5.61 | 1.41 | 1.65 | |
| -30 (-22) | 146 | 37 | 43 | 23 | 0.20 | 0.47 | 6.41 | 1.61 | 1.88 | |
| -25 (-13) | 194 | 49 | 57 | 26 | 0.23 | 0.62 | 7.39 | 1.86 | 2.17 | |
| -20 (- 4) | 255 | 64 | 75 | 30 | 0.25 | 0.82 | 8.59 | 2.17 | 2.52 | |
| -15 (+ 5) | 328 | 83 | 96 | 33 | 0.27 | 1.06 | 10.04 | 2.53 | 2.94 | |
| -10 (+14) | 416 | 105 | 122 | 36 | 0.29 | 1.34 | 11.74 | 2.96 | 3.44 | |
| -5 (+23) | 520 | 131 | 152 | 38 | 0.31 | 1.68 | 13.74 | 3.46 | 4.03 | |

| 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) | 92 | 23 | 27 | 20 | 0.17 | 0.32 | 4.71 | 1.19 | 1.38 | |
| -30 (-22) | 125 | 31 | 37 | 23 | 0.21 | 0.43 | 5.34 | 1.35 | 1.57 | |
| -25 (-13) | 168 | 42 | 49 | 27 | 0.24 | 0.58 | 6.09 | 1.53 | 1.78 | |
| -20 (- 4) | 223 | 56 | 65 | 32 | 0.27 | 0.78 | 6.96 | 1.75 | 2.04 | |
| -15 (+ 5) | 289 | 73 | 85 | 36 | 0.30 | 1.01 | 7.98 | 2.01 | 2.34 | |
| -10 (+14) | 368 | 93 | 108 | 40 | 0.32 | 1.29 | 9.19 | 2.32 | 2.69 | |
| -5 (+23) | 461 | 116 | 135 | 44 | 0.35 | 1.62 | 10.59 | 2.67 | 3.10 | |

| 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) | 70 | 18 | 20 | 19 | 0.17 | 0.26 | 3.61 | 0.91 | 1.06 | |
| -30 (-22) | 99 | 25 | 29 | 23 | 0.21 | 0.38 | 4.24 | 1.07 | 1.24 | |
| -25 (-13) | 137 | 34 | 40 | 28 | 0.24 | 0.52 | 4.89 | 1.23 | 1.43 | |
| -20 (- 4) | 185 | 46 | 54 | 33 | 0.28 | 0.70 | 5.59 | 1.41 | 1.64 | |
| -15 (+ 5) | 243 | 61 | 71 | 38 | 0.31 | 0.93 | 6.35 | 1.60 | 1.86 | |
| -10 (+14) | 313 | 79 | 92 | 43 | 0.35 | 1.20 | 7.20 | 1.81 | 2.11 | |
| -5 (+23) | 395 | 100 | 116 | 48 | 0.39 | 1.52 | 8.16 | 2.06 | 2.39 | |

E - PERFORMANCE - CURVES

| 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) | 163 | 41 | 48 | 30 | 0.26 | 0.52 | 5.41 | 1.36 | 1.59 | |
| -30 (-22) | 225 | 57 | 66 | 35 | 0.29 | 0.72 | 6.37 | 1.61 | 1.87 | |
| -25 (-13) | 303 | 76 | 89 | 41 | 0.34 | 0.97 | 7.40 | 1.86 | 2.17 | |
| -20 (- 4) | 399 | 101 | 117 | 47 | 0.38 | 1.28 | 8.53 | 2.15 | 2.50 | |
| -15 (+ 5) | 511 | 129 | 150 | 52 | 0.42 | 1.65 | 9.80 | 2.47 | 2.87 | |
| -10 (+14) | 641 | 161 | 188 | 57 | 0.45 | 2.07 | 11.25 | 2.83 | 3.30 | |
| -5 (+23) | 787 | 198 | 231 | 61 | 0.48 | 2.54 | 12.90 | 3.25 | 3.78 | |

| 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) | 133 | 34 | 39 | 30 | 0.25 | 0.46 | 4.42 | 1.12 | 1.30 | |
| -30 (-22) | 187 | 47 | 55 | 36 | 0.30 | 0.65 | 5.22 | 1.32 | 1.53 | |
| -25 (-13) | 257 | 65 | 75 | 42 | 0.35 | 0.90 | 6.04 | 1.52 | 1.77 | |
| -20 (- 4) | 344 | 87 | 101 | 49 | 0.40 | 1.20 | 6.92 | 1.74 | 2.03 | |
| -15 (+ 5) | 446 | 112 | 131 | 56 | 0.45 | 1.56 | 7.89 | 1.99 | 2.31 | |
| -10 (+14) | 564 | 142 | 165 | 63 | 0.49 | 1.97 | 9.00 | 2.27 | 2.64 | |
| -5 (+23) | 698 | 176 | 205 | 68 | 0.53 | 2.45 | 10.26 | 2.59 | 3.01 | |

| 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) | 103 | 26 | 30 | 30 | 0.26 | 0.39 | 3.43 | 0.87 | 1.01 | |
| -30 (-22) | 149 | 38 | 44 | 36 | 0.31 | 0.57 | 4.14 | 1.04 | 1.21 | |
| -25 (-13) | 209 | 53 | 61 | 44 | 0.36 | 0.80 | 4.82 | 1.22 | 1.41 | |
| -20 (- 4) | 285 | 72 | 84 | 52 | 0.42 | 1.09 | 5.52 | 1.39 | 1.62 | |
| -15 (+ 5) | 376 | 95 | 110 | 60 | 0.47 | 1.44 | 6.27 | 1.58 | 1.84 | |
| -10 (+14) | 482 | 121 | 141 | 68 | 0.53 | 1.85 | 7.10 | 1.79 | 2.08 | |
| -5 (+23) | 603 | 152 | 177 | 75 | 0.58 | 2.32 | 8.05 | 2.03 | 2.36 | |

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) | 252 | 64 | 74 | 50 | 0.39 | 0.81 | 5.07 | 1.28 | 1.49 | |
| -30 (-22) | 336 | 85 | 99 | 57 | 0.45 | 1.08 | 5.86 | 1.48 | 1.72 | |
| -25 (-13) | 441 | 111 | 129 | 66 | 0.51 | 1.42 | 6.73 | 1.70 | 1.97 | |
| -20 (- 4) | 571 | 144 | 167 | 74 | 0.57 | 1.83 | 7.71 | 1.94 | 2.26 | |
| -15 (+ 5) | 728 | 184 | 213 | 82 | 0.63 | 2.34 | 8.82 | 2.22 | 2.59 | |
| -10 (+14) | 918 | 231 | 269 | 91 | 0.69 | 2.96 | 10.09 | 2.54 | 2.96 | |
| -5 (+23) | 1143 | 288 | 335 | 99 | 0.75 | 3.70 | 11.53 | 2.91 | 3.38 | |

| 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) | 206 | 52 | 60 | 49 | 0.39 | 0.71 | 4.21 | 1.06 | 1.23 | |
| -30 (-22) | 287 | 72 | 84 | 59 | 0.46 | 1.00 | 4.90 | 1.23 | 1.43 | |
| -25 (-13) | 384 | 97 | 113 | 69 | 0.54 | 1.34 | 5.62 | 1.42 | 1.65 | |
| -20 (- 4) | 502 | 127 | 147 | 79 | 0.61 | 1.75 | 6.41 | 1.61 | 1.88 | |
| -15 (+ 5) | 644 | 162 | 189 | 88 | 0.68 | 2.25 | 7.28 | 1.83 | 2.13 | |
| -10 (+14) | 813 | 205 | 238 | 98 | 0.75 | 2.85 | 8.27 | 2.08 | 2.42 | |
| -5 (+23) | 1014 | 256 | 297 | 108 | 0.82 | 3.56 | 9.38 | 2.36 | 2.75 | |

| 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) | 145 | 36 | 42 | 44 | 0.35 | 0.55 | 3.28 | 0.83 | 0.96 | |
| -30 (-22) | 225 | 57 | 66 | 56 | 0.45 | 0.85 | 3.94 | 0.99 | 1.16 | |
| -25 (-13) | 317 | 80 | 93 | 69 | 0.54 | 1.21 | 4.60 | 1.16 | 1.35 | |
| -20 (- 4) | 425 | 107 | 125 | 81 | 0.63 | 1.62 | 5.27 | 1.33 | 1.54 | |
| -15 (+ 5) | 553 | 139 | 162 | 93 | 0.71 | 2.12 | 5.99 | 1.51 | 1.76 | |
| -10 (+14) | 705 | 178 | 207 | 104 | 0.79 | 2.71 | 6.78 | 1.71 | 1.99 | |
| -5 (+23) | 884 | 223 | 259 | 116 | 0.87 | 3.40 | 7.65 | 1.93 | 2.24 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | Universal VES | | |
| 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 | 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 | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 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 | | |