

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES A11C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907190 |

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 | - | - |
| 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 | 11.14 | [cm ³] (0.680 cu.in) |
| 2.1 Bore [mm] | 26.000 | |
| 2.2 Stroke [mm] | 21.000 | |
| 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) | 6.45 | [kg] (14.22 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 | 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 (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 | 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] |
| 219 | 55 | 64 | 43 | 0.32 | 0.84 | 5.08 | 1.28 | 1.49 |

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|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 273 | 69 | 80 | 53 | 0.39 | 1.04 | 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] |
| 348 | 88 | 102 | 67 | 0.49 | 1.33 | 5.18 | 1.31 | 1.52 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 528 | 133 | 155 | 104 | 0.74 | 2.01 | 5.06 | 1.28 | 1.48 |

| | | | | | | | | |
|---|----------|-----|------------------------------------|-------------------------------|---|---------------------------|---|-------|
| 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] |
| 714 | 180 | 209 | 151 | 1.00 | 2.72 | 4.72 | 1.19 | 1.38 |

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] |
| -35 | (-31) | 174 | 44 | 51 | 28 | 0.22 | 0.56 | 6.15 | 1.55 | 1.80 |
| -30 | (-22) | 231 | 58 | 68 | 33 | 0.26 | 0.74 | 6.98 | 1.76 | 2.05 |
| -25 | (-13) | 302 | 76 | 88 | 38 | 0.29 | 0.97 | 7.88 | 1.99 | 2.31 |
| -20 | (- 4) | 387 | 97 | 113 | 44 | 0.33 | 1.24 | 8.90 | 2.24 | 2.61 |
| -15 | (+ 5) | 488 | 123 | 143 | 49 | 0.36 | 1.57 | 10.09 | 2.54 | 2.96 |
| -10 | (+14) | 607 | 153 | 178 | 53 | 0.39 | 1.96 | 11.49 | 2.89 | 3.37 |

| 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] |
| -35 | (-31) | 147 | 37 | 43 | 29 | 0.23 | 0.51 | 5.04 | 1.27 | 1.48 |
| -30 | (-22) | 199 | 50 | 58 | 35 | 0.27 | 0.69 | 5.71 | 1.44 | 1.67 |
| -25 | (-13) | 262 | 66 | 77 | 41 | 0.32 | 0.91 | 6.38 | 1.61 | 1.87 |
| -20 | (- 4) | 340 | 86 | 100 | 48 | 0.36 | 1.18 | 7.12 | 1.79 | 2.08 |
| -15 | (+ 5) | 432 | 109 | 127 | 54 | 0.40 | 1.51 | 7.95 | 2.00 | 2.33 |
| -10 | (+14) | 541 | 136 | 158 | 60 | 0.44 | 1.89 | 8.94 | 2.25 | 2.62 |

| 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] |
| -35 | (-31) | 119 | 30 | 35 | 30 | 0.23 | 0.45 | 3.94 | 0.99 | 1.16 |
| -30 | (-22) | 164 | 41 | 48 | 36 | 0.27 | 0.62 | 4.54 | 1.14 | 1.33 |
| -25 | (-13) | 219 | 55 | 64 | 43 | 0.32 | 0.84 | 5.08 | 1.28 | 1.49 |
| -20 | (- 4) | 287 | 72 | 84 | 51 | 0.37 | 1.10 | 5.61 | 1.41 | 1.64 |
| -15 | (+ 5) | 369 | 93 | 108 | 60 | 0.43 | 1.41 | 6.18 | 1.56 | 1.81 |
| -10 | (+14) | 466 | 117 | 137 | 68 | 0.48 | 1.79 | 6.84 | 1.72 | 2.01 |

| 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] |
| -35 | (-31) | 210 | 53 | 62 | 35 | 0.27 | 0.67 | 6.10 | 1.54 | 1.79 |
| -30 | (-22) | 283 | 71 | 83 | 41 | 0.31 | 0.91 | 6.92 | 1.74 | 2.03 |
| -25 | (-13) | 372 | 94 | 109 | 47 | 0.36 | 1.20 | 7.82 | 1.97 | 2.29 |
| -20 | (- 4) | 480 | 121 | 141 | 54 | 0.40 | 1.54 | 8.86 | 2.23 | 2.60 |
| -15 | (+ 5) | 608 | 153 | 178 | 61 | 0.44 | 1.96 | 10.05 | 2.53 | 2.94 |
| -10 | (+14) | 759 | 191 | 222 | 67 | 0.48 | 2.45 | 11.44 | 2.88 | 3.35 |

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) | 184 | 46 | 54 | 36 | 0.29 | 0.64 | 5.07 | 1.28 | 1.49 |
| -30 | (-22) | 246 | 62 | 72 | 43 | 0.33 | 0.86 | 5.70 | 1.44 | 1.67 |
| -25 | (-13) | 324 | 82 | 95 | 51 | 0.38 | 1.13 | 6.35 | 1.60 | 1.86 |
| -20 | (- 4) | 419 | 106 | 123 | 59 | 0.43 | 1.46 | 7.08 | 1.78 | 2.07 |
| -15 | (+ 5) | 534 | 135 | 157 | 67 | 0.48 | 1.87 | 7.91 | 1.99 | 2.32 |
| -10 | (+14) | 670 | 169 | 196 | 75 | 0.53 | 2.34 | 8.89 | 2.24 | 2.60 |

| 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) | 152 | 38 | 45 | 37 | 0.29 | 0.58 | 4.07 | 1.03 | 1.19 |
| -30 | (-22) | 205 | 52 | 60 | 45 | 0.34 | 0.78 | 4.62 | 1.16 | 1.35 |
| -25 | (-13) | 273 | 69 | 80 | 53 | 0.39 | 1.04 | 5.15 | 1.30 | 1.51 |
| -20 | (- 4) | 358 | 90 | 105 | 63 | 0.46 | 1.37 | 5.69 | 1.43 | 1.67 |
| -15 | (+ 5) | 461 | 116 | 135 | 73 | 0.52 | 1.76 | 6.28 | 1.58 | 1.84 |
| -10 | (+14) | 583 | 147 | 171 | 84 | 0.59 | 2.24 | 6.97 | 1.76 | 2.04 |

| 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) | 266 | 67 | 78 | 45 | 0.33 | 0.85 | 5.97 | 1.50 | 1.75 |
| -30 | (-22) | 354 | 89 | 104 | 52 | 0.38 | 1.14 | 6.79 | 1.71 | 1.99 |
| -25 | (-13) | 465 | 117 | 136 | 60 | 0.44 | 1.49 | 7.69 | 1.94 | 2.25 |
| -20 | (- 4) | 600 | 151 | 176 | 69 | 0.50 | 1.93 | 8.69 | 2.19 | 2.55 |
| -15 | (+ 5) | 760 | 192 | 223 | 78 | 0.55 | 2.45 | 9.82 | 2.48 | 2.88 |
| -10 | (+14) | 947 | 239 | 277 | 85 | 0.60 | 3.05 | 11.13 | 2.80 | 3.26 |

| 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) | 229 | 58 | 67 | 46 | 0.34 | 0.80 | 4.99 | 1.26 | 1.46 |
| -30 | (-22) | 308 | 78 | 90 | 55 | 0.40 | 1.07 | 5.65 | 1.42 | 1.66 |
| -25 | (-13) | 407 | 103 | 119 | 64 | 0.47 | 1.42 | 6.34 | 1.60 | 1.86 |
| -20 | (- 4) | 529 | 133 | 155 | 75 | 0.54 | 1.84 | 7.07 | 1.78 | 2.07 |
| -15 | (+ 5) | 673 | 170 | 197 | 85 | 0.61 | 2.35 | 7.90 | 1.99 | 2.32 |
| -10 | (+14) | 842 | 212 | 247 | 95 | 0.67 | 2.95 | 8.85 | 2.23 | 2.59 |

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) | 189 | 48 | 55 | 47 | 0.35 | 0.72 | 4.03 | 1.02 | 1.18 | |
| -30 (-22) | 259 | 65 | 76 | 56 | 0.41 | 0.99 | 4.62 | 1.16 | 1.35 | |
| -25 (-13) | 348 | 88 | 102 | 67 | 0.49 | 1.33 | 5.18 | 1.31 | 1.52 | |
| -20 (- 4) | 458 | 115 | 134 | 80 | 0.57 | 1.75 | 5.76 | 1.45 | 1.69 | |
| -15 (+ 5) | 589 | 148 | 173 | 92 | 0.65 | 2.25 | 6.38 | 1.61 | 1.87 | |
| -10 (+14) | 742 | 187 | 217 | 105 | 0.73 | 2.85 | 7.07 | 1.78 | 2.07 | |

| 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) | 405 | 102 | 119 | 70 | 0.52 | 1.30 | 5.80 | 1.46 | 1.70 | |
| -30 (-22) | 538 | 136 | 158 | 82 | 0.59 | 1.73 | 6.60 | 1.66 | 1.93 | |
| -25 (-13) | 704 | 177 | 206 | 95 | 0.68 | 2.26 | 7.41 | 1.87 | 2.17 | |
| -20 (- 4) | 904 | 228 | 265 | 109 | 0.78 | 2.91 | 8.26 | 2.08 | 2.42 | |
| -15 (+ 5) | 1142 | 288 | 335 | 125 | 0.87 | 3.67 | 9.15 | 2.31 | 2.68 | |
| -10 (+14) | 1419 | 357 | 416 | 140 | 0.97 | 4.58 | 10.10 | 2.54 | 2.96 | |

| 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) | 342 | 86 | 100 | 71 | 0.52 | 1.19 | 4.80 | 1.21 | 1.41 | |
| -30 (-22) | 464 | 117 | 136 | 85 | 0.61 | 1.61 | 5.46 | 1.38 | 1.60 | |
| -25 (-13) | 615 | 155 | 180 | 100 | 0.71 | 2.14 | 6.12 | 1.54 | 1.79 | |
| -20 (- 4) | 796 | 201 | 233 | 117 | 0.82 | 2.78 | 6.80 | 1.71 | 1.99 | |
| -15 (+ 5) | 1010 | 254 | 296 | 134 | 0.94 | 3.53 | 7.52 | 1.89 | 2.20 | |
| -10 (+14) | 1259 | 317 | 369 | 152 | 1.05 | 4.41 | 8.27 | 2.09 | 2.42 | |

| 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) | 280 | 70 | 82 | 70 | 0.52 | 1.06 | 3.98 | 1.00 | 1.16 | |
| -30 (-22) | 392 | 99 | 115 | 87 | 0.62 | 1.49 | 4.52 | 1.14 | 1.32 | |
| -25 (-13) | 528 | 133 | 155 | 104 | 0.74 | 2.01 | 5.06 | 1.28 | 1.48 | |
| -20 (- 4) | 690 | 174 | 202 | 123 | 0.86 | 2.63 | 5.61 | 1.41 | 1.64 | |
| -15 (+ 5) | 880 | 222 | 258 | 143 | 0.99 | 3.37 | 6.18 | 1.56 | 1.81 | |
| -10 (+14) | 1101 | 278 | 323 | 163 | 1.12 | 4.23 | 6.78 | 1.71 | 1.99 | |

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) | 556 | 140 | 163 | 105 | 0.74 | 1.78 | 5.27 | 1.33 | 1.54 | |
| -30 (-22) | 722 | 182 | 212 | 121 | 0.81 | 2.33 | 5.94 | 1.50 | 1.74 | |
| -25 (-13) | 913 | 230 | 268 | 137 | 0.91 | 2.94 | 6.65 | 1.68 | 1.95 | |
| -20 (- 4) | 1155 | 291 | 339 | 156 | 1.02 | 3.71 | 7.43 | 1.87 | 2.18 | |
| -15 (+ 5) | 1477 | 372 | 433 | 177 | 1.11 | 4.74 | 8.33 | 2.10 | 2.44 | |
| -10 (+14) | 1905 | 480 | 558 | 202 | 1.18 | 6.13 | 9.38 | 2.36 | 2.75 | |

| 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) | 484 | 122 | 142 | 108 | 0.77 | 1.68 | 4.49 | 1.13 | 1.32 | |
| -30 (-22) | 637 | 160 | 187 | 126 | 0.85 | 2.22 | 5.05 | 1.27 | 1.48 | |
| -25 (-13) | 810 | 204 | 237 | 144 | 0.96 | 2.82 | 5.62 | 1.42 | 1.65 | |
| -20 (- 4) | 1032 | 260 | 302 | 165 | 1.07 | 3.59 | 6.26 | 1.58 | 1.83 | |
| -15 (+ 5) | 1328 | 335 | 389 | 190 | 1.17 | 4.64 | 6.98 | 1.76 | 2.05 | |
| -10 (+14) | 1728 | 436 | 506 | 219 | 1.23 | 6.05 | 7.85 | 1.98 | 2.30 | |

| 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) | 423 | 107 | 124 | 111 | 0.78 | 1.61 | 3.79 | 0.96 | 1.11 | |
| -30 (-22) | 560 | 141 | 164 | 130 | 0.88 | 2.12 | 4.25 | 1.07 | 1.25 | |
| -25 (-13) | 714 | 180 | 209 | 151 | 1.00 | 2.72 | 4.72 | 1.19 | 1.38 | |
| -20 (- 4) | 912 | 230 | 267 | 176 | 1.11 | 3.49 | 5.22 | 1.32 | 1.53 | |
| -15 (+ 5) | 1181 | 298 | 346 | 204 | 1.21 | 4.53 | 5.81 | 1.46 | 1.70 | |
| -10 (+14) | 1550 | 391 | 454 | 238 | 1.26 | 5.96 | 6.50 | 1.64 | 1.91 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | Universal VES | | |
| 2 Tray holder | No | | |
| 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 5° out + 63° up | | |
| 3.2 DISCHARGE | 4.2 +0.10/-0.05 | [mm] | (0.165" +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 | | |