

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES D7C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907216 |

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) | 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 | 7.23 | [cm ³] (0.441 cu.in) |
| 2.1 Bore [mm] | 24.000 | |
| 2.2 Stroke [mm] | 16.000 | |
| 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) | 6.81 | [kg] (15.01 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 | 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) | 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 | 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] |
| 122 | 31 | 36 | 25 | 0.20 | 0.47 | 4.84 | 1.22 | 1.42 |

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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] |
| 158 | 40 | 46 | 31 | 0.24 | 0.60 | 5.13 | 1.29 | 1.50 |

| | | | | | | | | |
|----------------------------------|----------|-----|-----------------------------|-------------------------------|--|---------------------------|-------------------------------|-------|
| 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] |
| 198 | 50 | 58 | 38 | 0.28 | 0.75 | 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] |
| 302 | 76 | 88 | 60 | 0.44 | 1.15 | 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] |
| 471 | 119 | 138 | 94 | 0.68 | 1.80 | 5.00 | 1.26 | 1.47 |

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) | 104 | 26 | 30 | 17 | 0.12 | 0.33 | 6.08 | 1.53 | 1.78 | |
| -30 (-22) | 139 | 35 | 41 | 20 | 0.15 | 0.45 | 6.97 | 1.76 | 2.04 | |
| -25 (-13) | 182 | 46 | 53 | 23 | 0.18 | 0.58 | 7.92 | 2.00 | 2.32 | |
| -20 (- 4) | 235 | 59 | 69 | 26 | 0.20 | 0.75 | 9.03 | 2.27 | 2.64 | |
| -15 (+ 5) | 299 | 75 | 88 | 29 | 0.22 | 0.96 | 10.35 | 2.61 | 3.03 | |
| -10 (+14) | 377 | 95 | 111 | 32 | 0.24 | 1.22 | 11.98 | 3.02 | 3.51 | |

| 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) | 82 | 21 | 24 | 17 | 0.14 | 0.28 | 4.69 | 1.18 | 1.37 | |
| -30 (-22) | 114 | 29 | 33 | 21 | 0.16 | 0.39 | 5.49 | 1.38 | 1.61 | |
| -25 (-13) | 153 | 38 | 45 | 24 | 0.19 | 0.53 | 6.26 | 1.58 | 1.83 | |
| -20 (- 4) | 200 | 50 | 59 | 28 | 0.22 | 0.70 | 7.09 | 1.79 | 2.08 | |
| -15 (+ 5) | 258 | 65 | 75 | 32 | 0.24 | 0.90 | 8.05 | 2.03 | 2.36 | |
| -10 (+14) | 327 | 82 | 96 | 35 | 0.27 | 1.15 | 9.22 | 2.32 | 2.70 | |

| 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) | 55 | 14 | 16 | 17 | 0.14 | 0.21 | 3.23 | 0.81 | 0.95 | |
| -30 (-22) | 86 | 22 | 25 | 21 | 0.17 | 0.32 | 4.09 | 1.03 | 1.20 | |
| -25 (-13) | 122 | 31 | 36 | 25 | 0.20 | 0.46 | 4.84 | 1.22 | 1.42 | |
| -20 (- 4) | 165 | 42 | 48 | 30 | 0.23 | 0.63 | 5.55 | 1.40 | 1.63 | |
| -15 (+ 5) | 217 | 55 | 64 | 34 | 0.26 | 0.83 | 6.30 | 1.59 | 1.85 | |
| -10 (+14) | 281 | 71 | 82 | 39 | 0.29 | 1.08 | 7.17 | 1.81 | 2.10 | |

| 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) | 124 | 31 | 36 | 21 | 0.16 | 0.40 | 5.84 | 1.47 | 1.71 | |
| -30 (-22) | 171 | 43 | 50 | 25 | 0.19 | 0.55 | 6.87 | 1.73 | 2.01 | |
| -25 (-13) | 227 | 57 | 66 | 29 | 0.21 | 0.73 | 7.94 | 2.00 | 2.33 | |
| -20 (- 4) | 293 | 74 | 86 | 32 | 0.24 | 0.94 | 9.12 | 2.30 | 2.67 | |
| -15 (+ 5) | 374 | 94 | 109 | 36 | 0.26 | 1.20 | 10.48 | 2.64 | 3.07 | |
| -10 (+14) | 470 | 118 | 138 | 39 | 0.29 | 1.51 | 12.10 | 3.05 | 3.54 | |

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) | 99 | 25 | 29 | 21 | 0.17 | 0.35 | 4.70 | 1.18 | 1.38 |
| -30 | (-22) | 143 | 36 | 42 | 26 | 0.20 | 0.50 | 5.58 | 1.41 | 1.64 |
| -25 | (-13) | 193 | 49 | 57 | 30 | 0.23 | 0.67 | 6.42 | 1.62 | 1.88 |
| -20 | (- 4) | 253 | 64 | 74 | 35 | 0.26 | 0.88 | 7.29 | 1.84 | 2.14 |
| -15 | (+ 5) | 324 | 82 | 95 | 39 | 0.30 | 1.13 | 8.25 | 2.08 | 2.42 |
| -10 | (+14) | 409 | 103 | 120 | 43 | 0.33 | 1.43 | 9.38 | 2.36 | 2.75 |

| 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) | 71 | 18 | 21 | 20 | 0.15 | 0.27 | 3.48 | 0.88 | 1.02 |
| -30 | (-22) | 112 | 28 | 33 | 25 | 0.19 | 0.42 | 4.37 | 1.10 | 1.28 |
| -25 | (-13) | 158 | 40 | 46 | 31 | 0.24 | 0.60 | 5.13 | 1.29 | 1.50 |
| -20 | (- 4) | 211 | 53 | 62 | 36 | 0.28 | 0.81 | 5.83 | 1.47 | 1.71 |
| -15 | (+ 5) | 274 | 69 | 80 | 42 | 0.32 | 1.05 | 6.53 | 1.65 | 1.91 |
| -10 | (+14) | 349 | 88 | 102 | 48 | 0.36 | 1.34 | 7.32 | 1.84 | 2.15 |

| 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) | 155 | 39 | 45 | 27 | 0.20 | 0.49 | 5.81 | 1.46 | 1.70 |
| -30 | (-22) | 211 | 53 | 62 | 31 | 0.23 | 0.68 | 6.80 | 1.71 | 1.99 |
| -25 | (-13) | 281 | 71 | 82 | 36 | 0.26 | 0.90 | 7.87 | 1.98 | 2.31 |
| -20 | (- 4) | 367 | 92 | 107 | 41 | 0.30 | 1.18 | 9.07 | 2.28 | 2.66 |
| -15 | (+ 5) | 468 | 118 | 137 | 45 | 0.33 | 1.51 | 10.43 | 2.63 | 3.06 |
| -10 | (+14) | 587 | 148 | 172 | 49 | 0.36 | 1.89 | 12.00 | 3.02 | 3.52 |

| 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) | 124 | 31 | 36 | 27 | 0.21 | 0.43 | 4.67 | 1.18 | 1.37 |
| -30 | (-22) | 176 | 44 | 51 | 32 | 0.24 | 0.61 | 5.51 | 1.39 | 1.61 |
| -25 | (-13) | 240 | 60 | 70 | 38 | 0.28 | 0.83 | 6.36 | 1.60 | 1.86 |
| -20 | (- 4) | 318 | 80 | 93 | 44 | 0.32 | 1.11 | 7.27 | 1.83 | 2.13 |
| -15 | (+ 5) | 411 | 104 | 120 | 49 | 0.36 | 1.44 | 8.28 | 2.09 | 2.43 |
| -10 | (+14) | 520 | 131 | 152 | 55 | 0.40 | 1.82 | 9.42 | 2.37 | 2.76 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | CECOMAF | | | (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) | 95 | 24 | 28 | 26 | 0.21 | 0.36 | 3.65 | 0.92 | 1.07 | |
| -30 (-22) | 141 | 36 | 41 | 32 | 0.24 | 0.54 | 4.44 | 1.12 | 1.30 | |
| -25 (-13) | 198 | 50 | 58 | 38 | 0.28 | 0.76 | 5.18 | 1.31 | 1.52 | |
| -20 (- 4) | 268 | 68 | 79 | 45 | 0.33 | 1.02 | 5.91 | 1.49 | 1.73 | |
| -15 (+ 5) | 351 | 88 | 103 | 53 | 0.39 | 1.35 | 6.67 | 1.68 | 1.96 | |
| -10 (+14) | 449 | 113 | 132 | 60 | 0.44 | 1.72 | 7.50 | 1.89 | 2.20 | |

| TEST CONDITIONS: | | CECOMAF | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 228 | 57 | 67 | 41 | 0.31 | 0.73 | 5.59 | 1.41 | 1.64 | |
| -30 (-22) | 318 | 80 | 93 | 49 | 0.35 | 1.02 | 6.53 | 1.64 | 1.91 | |
| -25 (-13) | 429 | 108 | 126 | 57 | 0.41 | 1.38 | 7.55 | 1.90 | 2.21 | |
| -20 (- 4) | 561 | 141 | 164 | 65 | 0.47 | 1.80 | 8.68 | 2.19 | 2.54 | |
| -15 (+ 5) | 718 | 181 | 210 | 73 | 0.52 | 2.31 | 9.94 | 2.50 | 2.91 | |
| -10 (+14) | 901 | 227 | 264 | 80 | 0.58 | 2.91 | 11.33 | 2.86 | 3.32 | |

| TEST CONDITIONS: | | CECOMAF | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 190 | 48 | 56 | 41 | 0.32 | 0.66 | 4.63 | 1.17 | 1.36 | |
| -30 (-22) | 268 | 67 | 78 | 50 | 0.37 | 0.93 | 5.38 | 1.36 | 1.58 | |
| -25 (-13) | 365 | 92 | 107 | 59 | 0.43 | 1.27 | 6.19 | 1.56 | 1.81 | |
| -20 (- 4) | 484 | 122 | 142 | 68 | 0.50 | 1.69 | 7.07 | 1.78 | 2.07 | |
| -15 (+ 5) | 627 | 158 | 184 | 78 | 0.57 | 2.19 | 8.04 | 2.03 | 2.36 | |
| -10 (+14) | 795 | 200 | 233 | 87 | 0.63 | 2.78 | 9.13 | 2.30 | 2.67 | |

| TEST CONDITIONS: | | CECOMAF | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 159 | 40 | 46 | 42 | 0.31 | 0.60 | 3.80 | 0.96 | 1.11 | |
| -30 (-22) | 221 | 56 | 65 | 50 | 0.37 | 0.84 | 4.42 | 1.11 | 1.29 | |
| -25 (-13) | 302 | 76 | 89 | 60 | 0.44 | 1.15 | 5.06 | 1.28 | 1.48 | |
| -20 (- 4) | 406 | 102 | 119 | 71 | 0.52 | 1.55 | 5.75 | 1.45 | 1.69 | |
| -15 (+ 5) | 532 | 134 | 156 | 82 | 0.60 | 2.04 | 6.50 | 1.64 | 1.91 | |
| -10 (+14) | 684 | 172 | 200 | 93 | 0.68 | 2.63 | 7.33 | 1.85 | 2.15 | |

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) | 364 | 92 | 107 | 67 | 0.49 | 1.16 | 5.38 | 1.36 | 1.58 | |
| -30 (-22) | 485 | 122 | 142 | 78 | 0.56 | 1.56 | 6.24 | 1.57 | 1.83 | |
| -25 (-13) | 619 | 156 | 181 | 88 | 0.62 | 1.99 | 7.11 | 1.79 | 2.08 | |
| -20 (- 4) | 780 | 196 | 228 | 97 | 0.68 | 2.50 | 8.05 | 2.03 | 2.36 | |
| -15 (+ 5) | 980 | 247 | 287 | 107 | 0.74 | 3.15 | 9.12 | 2.30 | 2.67 | |
| -10 (+14) | 1233 | 311 | 361 | 118 | 0.81 | 3.97 | 10.36 | 2.61 | 3.04 | |

| 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) | 298 | 75 | 87 | 66 | 0.49 | 1.04 | 4.50 | 1.13 | 1.32 | |
| -30 (-22) | 423 | 107 | 124 | 80 | 0.58 | 1.47 | 5.25 | 1.32 | 1.54 | |
| -25 (-13) | 555 | 140 | 163 | 93 | 0.66 | 1.93 | 5.98 | 1.51 | 1.75 | |
| -20 (- 4) | 706 | 178 | 207 | 105 | 0.73 | 2.46 | 6.74 | 1.70 | 1.97 | |
| -15 (+ 5) | 891 | 224 | 261 | 118 | 0.80 | 3.11 | 7.57 | 1.91 | 2.22 | |
| -10 (+14) | 1122 | 283 | 329 | 131 | 0.87 | 3.93 | 8.53 | 2.15 | 2.50 | |

| 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) | 225 | 57 | 66 | 62 | 0.46 | 0.86 | 3.66 | 0.92 | 1.07 | |
| -30 (-22) | 348 | 88 | 102 | 78 | 0.58 | 1.32 | 4.37 | 1.10 | 1.28 | |
| -25 (-13) | 471 | 119 | 138 | 94 | 0.68 | 1.79 | 5.00 | 1.26 | 1.47 | |
| -20 (- 4) | 608 | 153 | 178 | 108 | 0.76 | 2.32 | 5.62 | 1.42 | 1.65 | |
| -15 (+ 5) | 772 | 195 | 226 | 124 | 0.85 | 2.96 | 6.26 | 1.58 | 1.84 | |
| -10 (+14) | 976 | 246 | 286 | 140 | 0.93 | 3.75 | 6.99 | 1.76 | 2.05 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard 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 45° up + 49° to Back | | |
| 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 47° up + 59° 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 | | |