

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEM C7C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513906101 |

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 | 1/6 | [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 | 210 | [ml] (7.10 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 7.8 | [kg] (17.20 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 | CF02D01 M 0.0 X/VCC32456XXXX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | VCC32456XXXXX | |
| 6 Start winding resistance | 8.10 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 8.10 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (40/150 Hz) | 2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | 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: @220V1200RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°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] | |
| 157 | 40 | 46 | 26 | 0.22 | 0.49 | 6.06 | 1.53 | 1.78 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|---|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V1600RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°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] | |
| 214 | 54 | 63 | 34 | 0.25 | 0.67 | 6.37 | 1.61 | 1.87 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|---|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V3000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°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] | |
| 396 | 100 | 116 | 62 | 0.48 | 1.24 | 6.38 | 1.61 | 1.87 | |

| | | | | | | | | | |
|----------------------------------|----------|-----|--------------------------------|----------------------------------|---|---------------------------|--|-------|--|
| TEST CONDITIONS: @220V4500RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°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 | 93 | 0.72 | 1.80 | 6.19 | 1.56 | 1.81 | |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|----------------------------------|----------------------------|--------------------|---------|--------------------------------|----------------------------------|----------------------------|--|--------|----------|-----------|
| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 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) | 92 | 23 | 27 | 16 | 0.12 | 0.29 | 5.90 | 1.49 | 1.73 |
| -30 | (-22) | 128 | 32 | 38 | 19 | 0.14 | 0.40 | 6.86 | 1.73 | 2.01 |
| -25 | (-13) | 172 | 43 | 50 | 22 | 0.17 | 0.54 | 7.91 | 1.99 | 2.32 |
| -20 | (- 4) | 224 | 56 | 66 | 25 | 0.19 | 0.70 | 9.12 | 2.30 | 2.67 |
| -15 | (+ 5) | 286 | 72 | 84 | 27 | 0.21 | 0.90 | 10.54 | 2.65 | 3.09 |
| -10 | (+14) | 359 | 90 | 105 | 29 | 0.23 | 1.13 | 12.22 | 3.08 | 3.58 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 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) | 80 | 20 | 23 | 16 | 0.12 | 0.25 | 5.01 | 1.26 | 1.47 |
| -30 | (-22) | 116 | 29 | 34 | 20 | 0.15 | 0.36 | 5.88 | 1.48 | 1.72 |
| -25 | (-13) | 159 | 40 | 47 | 24 | 0.18 | 0.50 | 6.76 | 1.70 | 1.98 |
| -20 | (- 4) | 211 | 53 | 62 | 27 | 0.21 | 0.66 | 7.73 | 1.95 | 2.26 |
| -15 | (+ 5) | 273 | 69 | 80 | 31 | 0.24 | 0.86 | 8.82 | 2.22 | 2.58 |
| -10 | (+14) | 346 | 87 | 101 | 34 | 0.26 | 1.09 | 10.10 | 2.55 | 2.96 |

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 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) | 64 | 16 | 19 | 16 | 0.12 | 0.20 | 4.04 | 1.02 | 1.18 |
| -30 | (-22) | 100 | 25 | 29 | 20 | 0.15 | 0.31 | 4.97 | 1.25 | 1.46 |
| -25 | (-13) | 144 | 36 | 42 | 25 | 0.19 | 0.45 | 5.84 | 1.47 | 1.71 |
| -20 | (- 4) | 196 | 49 | 57 | 29 | 0.23 | 0.62 | 6.71 | 1.69 | 1.97 |
| -15 | (+ 5) | 258 | 65 | 76 | 34 | 0.26 | 0.81 | 7.63 | 1.92 | 2.24 |
| -10 | (+14) | 331 | 83 | 97 | 38 | 0.29 | 1.04 | 8.66 | 2.18 | 2.54 |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 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) | 125 | 32 | 37 | 20 | 0.15 | 0.39 | 6.12 | 1.54 | 1.79 |
| -30 | (-22) | 173 | 44 | 51 | 24 | 0.18 | 0.54 | 7.05 | 1.78 | 2.07 |
| -25 | (-13) | 230 | 58 | 67 | 28 | 0.21 | 0.72 | 8.09 | 2.04 | 2.37 |
| -20 | (- 4) | 299 | 75 | 87 | 32 | 0.24 | 0.94 | 9.29 | 2.34 | 2.72 |
| -15 | (+ 5) | 380 | 96 | 111 | 36 | 0.27 | 1.20 | 10.70 | 2.70 | 3.14 |
| -10 | (+14) | 476 | 120 | 139 | 39 | 0.29 | 1.50 | 12.39 | 3.12 | 3.63 |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 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) | 110 | 28 | 32 | 21 | 0.16 | 0.34 | 5.26 | 1.32 | 1.54 |
| -30 | (-22) | 158 | 40 | 46 | 26 | 0.19 | 0.49 | 6.10 | 1.54 | 1.79 |
| -25 | (-13) | 215 | 54 | 63 | 31 | 0.23 | 0.67 | 6.96 | 1.76 | 2.04 |
| -20 | (- 4) | 284 | 71 | 83 | 36 | 0.27 | 0.89 | 7.92 | 2.00 | 2.32 |
| -15 | (+ 5) | 365 | 92 | 107 | 40 | 0.31 | 1.15 | 9.01 | 2.27 | 2.64 |
| -10 | (+14) | 461 | 116 | 135 | 45 | 0.34 | 1.45 | 10.30 | 2.60 | 3.02 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V1600RPM | | 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) | 91 | 23 | 27 | 21 | 0.15 | 0.28 | 4.36 | 1.10 | 1.28 | |
| -30 (-22) | 139 | 35 | 41 | 26 | 0.19 | 0.43 | 5.24 | 1.32 | 1.54 | |
| -25 (-13) | 196 | 49 | 57 | 32 | 0.24 | 0.62 | 6.07 | 1.53 | 1.78 | |
| -20 (- 4) | 265 | 67 | 78 | 38 | 0.29 | 0.83 | 6.92 | 1.74 | 2.03 | |
| -15 (+ 5) | 346 | 87 | 101 | 44 | 0.33 | 1.09 | 7.82 | 1.97 | 2.29 | |
| -10 (+14) | 442 | 111 | 129 | 50 | 0.38 | 1.39 | 8.84 | 2.23 | 2.59 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°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) | 159 | 40 | 47 | 25 | 0.19 | 0.50 | 6.26 | 1.58 | 1.83 | |
| -30 (-22) | 219 | 55 | 64 | 30 | 0.23 | 0.69 | 7.18 | 1.81 | 2.10 | |
| -25 (-13) | 291 | 73 | 85 | 35 | 0.26 | 0.91 | 8.21 | 2.07 | 2.40 | |
| -20 (- 4) | 377 | 95 | 110 | 40 | 0.30 | 1.18 | 9.39 | 2.37 | 2.75 | |
| -15 (+ 5) | 479 | 121 | 140 | 45 | 0.33 | 1.51 | 10.78 | 2.72 | 3.16 | |
| -10 (+14) | 599 | 151 | 176 | 48 | 0.36 | 1.89 | 12.44 | 3.13 | 3.64 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°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) | 140 | 35 | 41 | 26 | 0.19 | 0.44 | 5.33 | 1.34 | 1.56 | |
| -30 (-22) | 200 | 50 | 59 | 32 | 0.24 | 0.63 | 6.18 | 1.56 | 1.81 | |
| -25 (-13) | 272 | 69 | 80 | 38 | 0.29 | 0.85 | 7.06 | 1.78 | 2.07 | |
| -20 (- 4) | 358 | 90 | 105 | 45 | 0.33 | 1.12 | 8.01 | 2.02 | 2.35 | |
| -15 (+ 5) | 460 | 116 | 135 | 50 | 0.38 | 1.45 | 9.10 | 2.29 | 2.67 | |
| -10 (+14) | 580 | 146 | 170 | 56 | 0.42 | 1.83 | 10.36 | 2.61 | 3.04 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (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) | 118 | 30 | 35 | 27 | 0.20 | 0.37 | 4.43 | 1.12 | 1.30 | |
| -30 (-22) | 177 | 45 | 52 | 33 | 0.25 | 0.56 | 5.35 | 1.35 | 1.57 | |
| -25 (-13) | 249 | 63 | 73 | 40 | 0.30 | 0.78 | 6.20 | 1.56 | 1.82 | |
| -20 (- 4) | 335 | 84 | 98 | 48 | 0.36 | 1.05 | 7.04 | 1.77 | 2.06 | |
| -15 (+ 5) | 437 | 110 | 128 | 55 | 0.41 | 1.38 | 7.94 | 2.00 | 2.33 | |
| -10 (+14) | 557 | 140 | 163 | 62 | 0.47 | 1.76 | 8.94 | 2.25 | 2.62 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 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) | 237 | 60 | 69 | 38 | 0.29 | 0.74 | 6.16 | 1.55 | 1.80 |
| -30 | (-22) | 326 | 82 | 95 | 46 | 0.35 | 1.02 | 6.99 | 1.76 | 2.05 |
| -25 | (-13) | 432 | 109 | 126 | 55 | 0.41 | 1.35 | 7.90 | 1.99 | 2.31 |
| -20 | (- 4) | 559 | 141 | 164 | 63 | 0.47 | 1.75 | 8.94 | 2.25 | 2.62 |
| -15 | (+ 5) | 709 | 179 | 208 | 70 | 0.52 | 2.23 | 10.19 | 2.57 | 2.99 |
| -10 | (+14) | 887 | 223 | 260 | 76 | 0.57 | 2.80 | 11.69 | 2.95 | 3.43 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 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) | 211 | 53 | 62 | 40 | 0.30 | 0.66 | 5.34 | 1.35 | 1.56 |
| -30 | (-22) | 299 | 75 | 88 | 49 | 0.37 | 0.94 | 6.12 | 1.54 | 1.79 |
| -25 | (-13) | 405 | 102 | 119 | 59 | 0.44 | 1.27 | 6.90 | 1.74 | 2.02 |
| -20 | (- 4) | 532 | 134 | 156 | 69 | 0.51 | 1.67 | 7.74 | 1.95 | 2.27 |
| -15 | (+ 5) | 682 | 172 | 200 | 78 | 0.58 | 2.15 | 8.70 | 2.19 | 2.55 |
| -10 | (+14) | 860 | 217 | 252 | 87 | 0.65 | 2.71 | 9.83 | 2.48 | 2.88 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 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) | 178 | 45 | 52 | 40 | 0.30 | 0.56 | 4.48 | 1.13 | 1.31 |
| -30 | (-22) | 266 | 67 | 78 | 50 | 0.37 | 0.83 | 5.34 | 1.35 | 1.57 |
| -25 | (-13) | 372 | 94 | 109 | 61 | 0.45 | 1.17 | 6.12 | 1.54 | 1.79 |
| -20 | (- 4) | 499 | 126 | 146 | 73 | 0.54 | 1.57 | 6.88 | 1.73 | 2.02 |
| -15 | (+ 5) | 650 | 164 | 190 | 85 | 0.63 | 2.05 | 7.67 | 1.93 | 2.25 |
| -10 | (+14) | 827 | 208 | 242 | 96 | 0.72 | 2.61 | 8.57 | 2.16 | 2.51 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 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) | 353 | 89 | 103 | 59 | 0.44 | 1.10 | 5.96 | 1.50 | 1.75 |
| -30 | (-22) | 476 | 120 | 140 | 71 | 0.52 | 1.49 | 6.72 | 1.69 | 1.97 |
| -25 | (-13) | 625 | 157 | 183 | 83 | 0.60 | 1.96 | 7.56 | 1.90 | 2.22 |
| -20 | (- 4) | 803 | 202 | 235 | 94 | 0.68 | 2.52 | 8.52 | 2.15 | 2.50 |
| -15 | (+ 5) | 1014 | 256 | 297 | 105 | 0.76 | 3.19 | 9.67 | 2.44 | 2.83 |
| -10 | (+14) | 1263 | 318 | 370 | 115 | 0.83 | 3.98 | 11.05 | 2.78 | 3.24 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 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) | 321 | 81 | 94 | 62 | 0.46 | 1.01 | 5.18 | 1.30 | 1.52 |
| -30 | (-22) | 444 | 112 | 130 | 75 | 0.55 | 1.39 | 5.92 | 1.49 | 1.73 |
| -25 | (-13) | 593 | 149 | 174 | 89 | 0.65 | 1.86 | 6.65 | 1.67 | 1.95 |
| -20 | (- 4) | 771 | 194 | 226 | 104 | 0.75 | 2.42 | 7.43 | 1.87 | 2.18 |
| -15 | (+ 5) | 982 | 248 | 288 | 118 | 0.85 | 3.09 | 8.31 | 2.09 | 2.43 |
| -10 | (+14) | 1231 | 310 | 361 | 132 | 0.95 | 3.88 | 9.35 | 2.36 | 2.74 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 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) | 283 | 71 | 83 | 65 | 0.48 | 0.89 | 4.34 | 1.09 | 1.27 |
| -30 | (-22) | 406 | 102 | 119 | 79 | 0.57 | 1.27 | 5.17 | 1.30 | 1.52 |
| -25 | (-13) | 555 | 140 | 163 | 94 | 0.68 | 1.74 | 5.92 | 1.49 | 1.73 |
| -20 | (- 4) | 733 | 185 | 215 | 111 | 0.80 | 2.30 | 6.63 | 1.67 | 1.94 |
| -15 | (+ 5) | 944 | 238 | 277 | 128 | 0.93 | 2.97 | 7.37 | 1.86 | 2.16 |
| -10 | (+14) | 1193 | 301 | 350 | 145 | 1.05 | 3.76 | 8.19 | 2.06 | 2.40 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard EUEM | | |
| 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 28° up + 25° to Back | | |
| 3.2 DISCHARGE | 5.1 +0.10/+0.00 | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 0° up + 24° to Back | | |
| 3.3 PROCESS | 6 +0.08/-0.08 | [mm] | (0.236" +0.003"/-0.003") |
| 3.3.1 Material | Copper(OD) | | |
| 3.3.2 Shape | Slanted 42° up + 45° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |