

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEM X7C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513903009 |

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 | 85 to 140 V | 85 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static | 85 to 140 V | 85 to 140 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 | 220 | [ml] (7.44 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 7.59 | [kg] (16.73 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 | VCC31156XXXX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | VCC31156XXXXX | |
| 6 Start winding resistance | 16.07 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 16.07 | [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 | CE - UKCA - UL | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @115V1200RPM | | | 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] |
| 154 | 39 | 45 | 28 | 0.48 | 0.48 | 5.48 | 1.38 | 1.61 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @115V1600RPM | | | 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] |
| 213 | 54 | 62 | 35 | 0.55 | 0.67 | 6.03 | 1.52 | 1.77 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @115V2000RPM | | | 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] |
| 272 | 69 | 80 | 44 | 0.69 | 0.85 | 6.22 | 1.57 | 1.82 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @115V3000RPM | | | 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] |
| 411 | 104 | 120 | 65 | 0.98 | 1.29 | 6.36 | 1.60 | 1.86 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|--|-----------|-------|
| TEST CONDITIONS: @115V4500RPM | | | 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] |
| 608 | 153 | 178 | 98 | 1.43 | 1.91 | 6.19 | 1.56 | 1.81 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V1200RPM | | 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 | 17 | 0.25 | 0.29 | 5.53 | 1.39 | 1.62 |
| -30 | (-22) | 127 | 32 | 37 | 20 | 0.29 | 0.40 | 6.36 | 1.60 | 1.86 |
| -25 | (-13) | 169 | 43 | 50 | 23 | 0.34 | 0.53 | 7.31 | 1.84 | 2.14 |
| -20 | (- 4) | 219 | 55 | 64 | 26 | 0.38 | 0.69 | 8.41 | 2.12 | 2.47 |
| -15 | (+ 5) | 279 | 70 | 82 | 29 | 0.42 | 0.88 | 9.73 | 2.45 | 2.85 |
| -10 | (+14) | 349 | 88 | 102 | 31 | 0.46 | 1.10 | 11.30 | 2.85 | 3.31 |

| TEST CONDITIONS: @115V1200RPM | | 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] |
| -35 | (-31) | 81 | 20 | 24 | 17 | 0.25 | 0.25 | 4.78 | 1.20 | 1.40 |
| -30 | (-22) | 116 | 29 | 34 | 21 | 0.30 | 0.36 | 5.50 | 1.39 | 1.61 |
| -25 | (-13) | 158 | 40 | 46 | 25 | 0.36 | 0.50 | 6.27 | 1.58 | 1.84 |
| -20 | (- 4) | 208 | 52 | 61 | 29 | 0.42 | 0.65 | 7.13 | 1.80 | 2.09 |
| -15 | (+ 5) | 267 | 67 | 78 | 33 | 0.48 | 0.84 | 8.14 | 2.05 | 2.39 |
| -10 | (+14) | 338 | 85 | 99 | 36 | 0.53 | 1.07 | 9.34 | 2.35 | 2.74 |

| TEST CONDITIONS: @115V1200RPM | | 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] |
| -35 | (-31) | 62 | 16 | 18 | 17 | 0.25 | 0.20 | 3.72 | 0.94 | 1.09 |
| -30 | (-22) | 96 | 24 | 28 | 22 | 0.31 | 0.30 | 4.47 | 1.13 | 1.31 |
| -25 | (-13) | 137 | 35 | 40 | 27 | 0.38 | 0.43 | 5.20 | 1.31 | 1.52 |
| -20 | (- 4) | 187 | 47 | 55 | 31 | 0.45 | 0.59 | 5.97 | 1.51 | 1.75 |
| -15 | (+ 5) | 246 | 62 | 72 | 36 | 0.52 | 0.77 | 6.82 | 1.72 | 2.00 |
| -10 | (+14) | 315 | 79 | 92 | 40 | 0.59 | 0.99 | 7.80 | 1.97 | 2.29 |

| TEST CONDITIONS: @115V1600RPM | | 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) | 129 | 33 | 38 | 21 | 0.31 | 0.40 | 6.03 | 1.52 | 1.77 |
| -30 | (-22) | 177 | 45 | 52 | 25 | 0.36 | 0.55 | 6.91 | 1.74 | 2.03 |
| -25 | (-13) | 233 | 59 | 68 | 30 | 0.42 | 0.73 | 7.85 | 1.98 | 2.30 |
| -20 | (- 4) | 301 | 76 | 88 | 34 | 0.48 | 0.94 | 8.92 | 2.25 | 2.61 |
| -15 | (+ 5) | 380 | 96 | 111 | 37 | 0.54 | 1.20 | 10.18 | 2.57 | 2.98 |
| -10 | (+14) | 473 | 119 | 139 | 41 | 0.59 | 1.49 | 11.70 | 2.95 | 3.43 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V1600RPM | | 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 | 34 | 22 | 0.33 | 0.37 | 5.29 | 1.33 | 1.55 | |
| -30 (-22) | 164 | 41 | 48 | 27 | 0.39 | 0.51 | 6.08 | 1.53 | 1.78 | |
| -25 (-13) | 220 | 56 | 65 | 32 | 0.46 | 0.69 | 6.86 | 1.73 | 2.01 | |
| -20 (- 4) | 287 | 72 | 84 | 37 | 0.54 | 0.90 | 7.70 | 1.94 | 2.26 | |
| -15 (+ 5) | 366 | 92 | 107 | 42 | 0.61 | 1.15 | 8.65 | 2.18 | 2.54 | |
| -10 (+14) | 460 | 116 | 135 | 47 | 0.68 | 1.45 | 9.79 | 2.47 | 2.87 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V1600RPM | | 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) | 90 | 23 | 26 | 23 | 0.33 | 0.28 | 4.01 | 1.01 | 1.18 | |
| -30 (-22) | 135 | 34 | 39 | 28 | 0.41 | 0.42 | 4.86 | 1.22 | 1.42 | |
| -25 (-13) | 188 | 47 | 55 | 34 | 0.49 | 0.59 | 5.63 | 1.42 | 1.65 | |
| -20 (- 4) | 253 | 64 | 74 | 40 | 0.58 | 0.79 | 6.38 | 1.61 | 1.87 | |
| -15 (+ 5) | 330 | 83 | 97 | 46 | 0.67 | 1.04 | 7.18 | 1.81 | 2.10 | |
| -10 (+14) | 423 | 106 | 124 | 52 | 0.76 | 1.33 | 8.09 | 2.04 | 2.37 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V2000RPM | | 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) | 163 | 41 | 48 | 27 | 0.38 | 0.51 | 6.03 | 1.52 | 1.77 | |
| -30 (-22) | 221 | 56 | 65 | 32 | 0.46 | 0.69 | 6.90 | 1.74 | 2.02 | |
| -25 (-13) | 291 | 73 | 85 | 37 | 0.54 | 0.91 | 7.83 | 1.97 | 2.29 | |
| -20 (- 4) | 373 | 94 | 109 | 42 | 0.61 | 1.17 | 8.89 | 2.24 | 2.61 | |
| -15 (+ 5) | 471 | 119 | 138 | 47 | 0.67 | 1.48 | 10.18 | 2.57 | 2.98 | |
| -10 (+14) | 587 | 148 | 172 | 50 | 0.72 | 1.85 | 11.76 | 2.96 | 3.45 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2000RPM | | 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) | 149 | 37 | 44 | 28 | 0.40 | 0.47 | 5.27 | 1.33 | 1.54 | |
| -30 (-22) | 206 | 52 | 60 | 34 | 0.49 | 0.65 | 6.06 | 1.53 | 1.78 | |
| -25 (-13) | 275 | 69 | 81 | 40 | 0.58 | 0.86 | 6.83 | 1.72 | 2.00 | |
| -20 (- 4) | 357 | 90 | 105 | 47 | 0.67 | 1.12 | 7.65 | 1.93 | 2.24 | |
| -15 (+ 5) | 455 | 115 | 133 | 53 | 0.75 | 1.43 | 8.62 | 2.17 | 2.53 | |
| -10 (+14) | 572 | 144 | 168 | 58 | 0.83 | 1.80 | 9.80 | 2.47 | 2.87 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V2000RPM | | 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) | 120 | 30 | 35 | 28 | 0.40 | 0.38 | 4.26 | 1.07 | 1.25 | |
| -30 (-22) | 176 | 44 | 52 | 34 | 0.50 | 0.55 | 5.11 | 1.29 | 1.50 | |
| -25 (-13) | 244 | 61 | 71 | 42 | 0.61 | 0.77 | 5.86 | 1.48 | 1.72 | |
| -20 (- 4) | 326 | 82 | 95 | 50 | 0.71 | 1.02 | 6.59 | 1.66 | 1.93 | |
| -15 (+ 5) | 424 | 107 | 124 | 58 | 0.82 | 1.34 | 7.37 | 1.86 | 2.16 | |
| -10 (+14) | 541 | 136 | 159 | 65 | 0.93 | 1.71 | 8.30 | 2.09 | 2.43 | |

| TEST CONDITIONS: @115V3000RPM | | 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) | 244 | 61 | 71 | 41 | 0.57 | 0.76 | 6.02 | 1.52 | 1.76 | |
| -30 (-22) | 333 | 84 | 98 | 48 | 0.69 | 1.04 | 6.87 | 1.73 | 2.01 | |
| -25 (-13) | 438 | 110 | 128 | 56 | 0.81 | 1.38 | 7.75 | 1.95 | 2.27 | |
| -20 (- 4) | 564 | 142 | 165 | 65 | 0.92 | 1.77 | 8.73 | 2.20 | 2.56 | |
| -15 (+ 5) | 713 | 180 | 209 | 73 | 1.03 | 2.24 | 9.85 | 2.48 | 2.89 | |
| -10 (+14) | 889 | 224 | 261 | 80 | 1.12 | 2.81 | 11.18 | 2.82 | 3.28 | |

| TEST CONDITIONS: @115V3000RPM | | 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) | 215 | 54 | 63 | 41 | 0.59 | 0.67 | 5.21 | 1.31 | 1.53 | |
| -30 (-22) | 299 | 75 | 88 | 50 | 0.72 | 0.94 | 6.01 | 1.51 | 1.76 | |
| -25 (-13) | 400 | 101 | 117 | 59 | 0.85 | 1.25 | 6.79 | 1.71 | 1.99 | |
| -20 (- 4) | 521 | 131 | 153 | 68 | 0.98 | 1.64 | 7.62 | 1.92 | 2.23 | |
| -15 (+ 5) | 666 | 168 | 195 | 78 | 1.11 | 2.10 | 8.55 | 2.16 | 2.51 | |
| -10 (+14) | 839 | 211 | 246 | 87 | 1.23 | 2.65 | 9.64 | 2.43 | 2.83 | |

| TEST CONDITIONS: @115V3000RPM | | 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) | 179 | 45 | 52 | 41 | 0.61 | 0.56 | 4.31 | 1.09 | 1.26 | |
| -30 (-22) | 263 | 66 | 77 | 51 | 0.75 | 0.82 | 5.15 | 1.30 | 1.51 | |
| -25 (-13) | 364 | 92 | 107 | 61 | 0.90 | 1.14 | 5.93 | 1.49 | 1.74 | |
| -20 (- 4) | 486 | 122 | 142 | 72 | 1.06 | 1.53 | 6.71 | 1.69 | 1.97 | |
| -15 (+ 5) | 632 | 159 | 185 | 84 | 1.21 | 1.99 | 7.55 | 1.90 | 2.21 | |
| -10 (+14) | 806 | 203 | 236 | 95 | 1.37 | 2.54 | 8.50 | 2.14 | 2.49 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V4500RPM | | 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) | 360 | 91 | 106 | 62 | 0.88 | 1.13 | 5.83 | 1.47 | 1.71 | |
| -30 (-22) | 491 | 124 | 144 | 75 | 1.04 | 1.54 | 6.55 | 1.65 | 1.92 | |
| -25 (-13) | 648 | 163 | 190 | 88 | 1.21 | 2.03 | 7.34 | 1.85 | 2.15 | |
| -20 (- 4) | 835 | 210 | 245 | 101 | 1.40 | 2.62 | 8.25 | 2.08 | 2.42 | |
| -15 (+ 5) | 1057 | 266 | 310 | 114 | 1.57 | 3.33 | 9.30 | 2.34 | 2.73 | |
| -10 (+14) | 1317 | 332 | 386 | 125 | 1.73 | 4.15 | 10.54 | 2.66 | 3.09 | |

| TEST CONDITIONS: @115V4500RPM | | 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) | 316 | 80 | 93 | 63 | 0.88 | 0.99 | 5.01 | 1.26 | 1.47 | |
| -30 (-22) | 440 | 111 | 129 | 76 | 1.04 | 1.38 | 5.75 | 1.45 | 1.68 | |
| -25 (-13) | 590 | 149 | 173 | 91 | 1.25 | 1.85 | 6.49 | 1.64 | 1.90 | |
| -20 (- 4) | 771 | 194 | 226 | 106 | 1.46 | 2.42 | 7.28 | 1.83 | 2.13 | |
| -15 (+ 5) | 985 | 248 | 289 | 121 | 1.68 | 3.10 | 8.15 | 2.05 | 2.39 | |
| -10 (+14) | 1238 | 312 | 363 | 135 | 1.88 | 3.91 | 9.14 | 2.30 | 2.68 | |

| TEST CONDITIONS: @115V4500RPM | | 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) | 273 | 69 | 80 | 64 | 0.90 | 0.86 | 4.27 | 1.08 | 1.25 | |
| -30 (-22) | 401 | 101 | 117 | 78 | 1.09 | 1.26 | 5.11 | 1.29 | 1.50 | |
| -25 (-13) | 554 | 140 | 162 | 94 | 1.32 | 1.74 | 5.88 | 1.48 | 1.72 | |
| -20 (- 4) | 738 | 186 | 216 | 111 | 1.57 | 2.32 | 6.63 | 1.67 | 1.94 | |
| -15 (+ 5) | 956 | 241 | 280 | 129 | 1.84 | 3.01 | 7.40 | 1.87 | 2.17 | |
| -10 (+14) | 1211 | 305 | 355 | 147 | 2.09 | 3.82 | 8.23 | 2.07 | 2.41 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|--------------------------------|------|--------------------------|
| 1 Base plate | European Standard EUEM | | |
| 2 Tray holder | Yes | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 8.1 +0.10/+0.00 | [mm] | (0.319" +0.004"/+0.000") |
| 3.1.1 Material | Copper(OD) | | |
| 3.1.2 Shape | Slanted 42° up + 45° 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 parallel BP+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 43° up + 45° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |