

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEM X9C+ |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513906010 |

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) | Static | - | - |
| 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 | 9.04 | [cm ³] (0.552 cu.in) |
| 2.1 Bore [mm] | 24.000 | |
| 2.2 Stroke [mm] | 20.000 | |
| 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 | VCC31156XXXX/VCC32456XXXX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | VCC3 115619N01SH2.0 | |
| 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 | |

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] |
| 220 | 55 | 64 | 38 | 0.30 | 0.69 | 5.84 | 1.47 | 1.71 |

| | | | | | | | | |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|---------------------------|------------------------------------------------------|-------|
| 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] |
| 287 | 72 | 84 | 47 | 0.36 | 0.90 | 6.15 | 1.55 | 1.80 |

| | | | | | | | | |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|---------------------------|------------------------------------------------------|-------|
| TEST CONDITIONS: @220V2000RPM | | | 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] |
| 364 | 92 | 107 | 57 | 0.43 | 1.14 | 6.41 | 1.62 | 1.88 |

| | | | | | | | | |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|---------------------------|------------------------------------------------------|-------|
| 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] |
| 556 | 140 | 163 | 84 | 0.63 | 1.75 | 6.59 | 1.66 | 1.93 |

| | | | | | | | | |
|-----------------------------------------|----------|-----|-------------------------------------|-------------------------------|-----------------------------------------------------|---------------------------|------------------------------------------------------|-------|
| 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] |
| 757 | 191 | 222 | 120 | 0.87 | 2.38 | 6.30 | 1.59 | 1.85 |

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] | [W/W] |
| -35 (-31) | 221 | 56 | 65 | 35 | 0.26 | 0.69 | 6.24 | 1.57 | 1.83 | |
| -30 (-22) | 290 | 73 | 85 | 42 | 0.31 | 0.91 | 7.00 | 1.76 | 2.05 | |
| -25 (-13) | 378 | 95 | 111 | 48 | 0.36 | 1.19 | 7.97 | 2.01 | 2.33 | |
| -20 (- 4) | 485 | 122 | 142 | 53 | 0.40 | 1.52 | 9.11 | 2.29 | 2.67 | |
| -15 (+ 5) | 612 | 154 | 179 | 59 | 0.44 | 1.92 | 10.39 | 2.62 | 3.04 | |
| -10 (+14) | 759 | 191 | 223 | 64 | 0.48 | 2.40 | 11.79 | 2.97 | 3.46 | |

| 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) | 191 | 48 | 56 | 38 | 0.30 | 0.60 | 5.03 | 1.27 | 1.48 | |
| -30 (-22) | 248 | 62 | 73 | 44 | 0.35 | 0.78 | 5.64 | 1.42 | 1.65 | |
| -25 (-13) | 322 | 81 | 94 | 51 | 0.40 | 1.01 | 6.38 | 1.61 | 1.87 | |
| -20 (- 4) | 416 | 105 | 122 | 58 | 0.45 | 1.31 | 7.22 | 1.82 | 2.12 | |
| -15 (+ 5) | 530 | 133 | 155 | 65 | 0.50 | 1.67 | 8.16 | 2.06 | 2.39 | |
| -10 (+14) | 664 | 167 | 195 | 73 | 0.55 | 2.10 | 9.14 | 2.30 | 2.68 | |

| 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) | 138 | 35 | 40 | 37 | 0.29 | 0.43 | 3.76 | 0.95 | 1.10 | |
| -30 (-22) | 193 | 49 | 57 | 45 | 0.35 | 0.61 | 4.36 | 1.10 | 1.28 | |
| -25 (-13) | 266 | 67 | 78 | 53 | 0.42 | 0.84 | 5.03 | 1.27 | 1.47 | |
| -20 (- 4) | 358 | 90 | 105 | 62 | 0.49 | 1.12 | 5.75 | 1.45 | 1.69 | |
| -15 (+ 5) | 470 | 118 | 138 | 72 | 0.56 | 1.48 | 6.49 | 1.64 | 1.90 | |
| -10 (+14) | 603 | 152 | 177 | 84 | 0.63 | 1.90 | 7.22 | 1.82 | 2.11 | |

| 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) | 166 | 42 | 49 | 27 | 0.20 | 0.52 | 6.32 | 1.59 | 1.85 | |
| -30 (-22) | 249 | 63 | 73 | 35 | 0.27 | 0.78 | 7.10 | 1.79 | 2.08 | |
| -25 (-13) | 328 | 83 | 96 | 40 | 0.31 | 1.03 | 8.13 | 2.05 | 2.38 | |
| -20 (- 4) | 410 | 103 | 120 | 44 | 0.34 | 1.29 | 9.34 | 2.35 | 2.74 | |
| -15 (+ 5) | 503 | 127 | 147 | 47 | 0.37 | 1.58 | 10.68 | 2.69 | 3.13 | |
| -10 (+14) | 615 | 155 | 180 | 51 | 0.40 | 1.94 | 12.08 | 3.04 | 3.54 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°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) | 179 | 45 | 52 | 31 | 0.25 | 0.56 | 5.52 | 1.39 | 1.62 | |
| -30 (-22) | 221 | 56 | 65 | 36 | 0.29 | 0.69 | 6.05 | 1.52 | 1.77 | |
| -25 (-13) | 275 | 69 | 81 | 41 | 0.33 | 0.86 | 6.82 | 1.72 | 2.00 | |
| -20 (- 4) | 348 | 88 | 102 | 45 | 0.36 | 1.09 | 7.78 | 1.96 | 2.28 | |
| -15 (+ 5) | 447 | 113 | 131 | 51 | 0.40 | 1.41 | 8.87 | 2.24 | 2.60 | |
| -10 (+14) | 579 | 146 | 170 | 58 | 0.45 | 1.83 | 10.02 | 2.52 | 2.94 | |

| 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) | 143 | 36 | 42 | 30 | 0.24 | 0.45 | 4.79 | 1.21 | 1.40 | |
| -30 (-22) | 181 | 46 | 53 | 36 | 0.29 | 0.57 | 5.18 | 1.31 | 1.52 | |
| -25 (-13) | 244 | 62 | 72 | 43 | 0.34 | 0.77 | 5.83 | 1.47 | 1.71 | |
| -20 (- 4) | 341 | 86 | 100 | 51 | 0.40 | 1.07 | 6.65 | 1.68 | 1.95 | |
| -15 (+ 5) | 480 | 121 | 141 | 62 | 0.48 | 1.51 | 7.61 | 1.92 | 2.23 | |
| -10 (+14) | 668 | 168 | 196 | 76 | 0.58 | 2.11 | 8.62 | 2.17 | 2.53 | |

| 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) | 225 | 57 | 66 | 35 | 0.26 | 0.70 | 6.38 | 1.61 | 1.87 | |
| -30 (-22) | 297 | 75 | 87 | 42 | 0.31 | 0.93 | 7.16 | 1.80 | 2.10 | |
| -25 (-13) | 387 | 98 | 114 | 48 | 0.36 | 1.22 | 8.14 | 2.05 | 2.39 | |
| -20 (- 4) | 496 | 125 | 145 | 53 | 0.40 | 1.56 | 9.31 | 2.35 | 2.73 | |
| -15 (+ 5) | 626 | 158 | 183 | 59 | 0.44 | 1.97 | 10.63 | 2.68 | 3.11 | |
| -10 (+14) | 777 | 196 | 228 | 64 | 0.48 | 2.45 | 12.07 | 3.04 | 3.54 | |

| 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) | 212 | 53 | 62 | 38 | 0.30 | 0.66 | 5.58 | 1.41 | 1.63 | |
| -30 (-22) | 275 | 69 | 81 | 44 | 0.35 | 0.86 | 6.25 | 1.58 | 1.83 | |
| -25 (-13) | 357 | 90 | 105 | 51 | 0.40 | 1.12 | 7.08 | 1.78 | 2.07 | |
| -20 (- 4) | 461 | 116 | 135 | 58 | 0.45 | 1.45 | 8.02 | 2.02 | 2.35 | |
| -15 (+ 5) | 587 | 148 | 172 | 65 | 0.50 | 1.85 | 9.06 | 2.28 | 2.65 | |
| -10 (+14) | 737 | 186 | 216 | 73 | 0.55 | 2.33 | 10.15 | 2.56 | 2.97 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V2000RPM | | 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) | 168 | 42 | 49 | 37 | 0.29 | 0.53 | 4.57 | 1.15 | 1.34 | |
| -30 (-22) | 235 | 59 | 69 | 45 | 0.35 | 0.74 | 5.30 | 1.34 | 1.55 | |
| -25 (-13) | 323 | 81 | 95 | 53 | 0.42 | 1.01 | 6.11 | 1.54 | 1.79 | |
| -20 (- 4) | 435 | 110 | 127 | 62 | 0.49 | 1.37 | 6.98 | 1.76 | 2.05 | |
| -15 (+ 5) | 571 | 144 | 167 | 72 | 0.56 | 1.80 | 7.88 | 1.99 | 2.31 | |
| -10 (+14) | 733 | 185 | 215 | 84 | 0.63 | 2.31 | 8.77 | 2.21 | 2.57 | |

| 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] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 335 | 85 | 98 | 55 | 0.42 | 1.05 | 6.06 | 1.53 | 1.78 | |
| -30 (-22) | 444 | 112 | 130 | 64 | 0.47 | 1.39 | 6.96 | 1.76 | 2.04 | |
| -25 (-13) | 585 | 148 | 172 | 73 | 0.54 | 1.84 | 8.00 | 2.02 | 2.34 | |
| -20 (- 4) | 758 | 191 | 222 | 83 | 0.61 | 2.38 | 9.14 | 2.30 | 2.68 | |
| -15 (+ 5) | 962 | 242 | 282 | 93 | 0.68 | 3.03 | 10.36 | 2.61 | 3.04 | |
| -10 (+14) | 1195 | 301 | 350 | 103 | 0.76 | 3.77 | 11.63 | 2.93 | 3.41 | |

| 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] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 314 | 79 | 92 | 56 | 0.43 | 0.98 | 5.60 | 1.41 | 1.64 | |
| -30 (-22) | 410 | 103 | 120 | 66 | 0.50 | 1.29 | 6.27 | 1.58 | 1.84 | |
| -25 (-13) | 540 | 136 | 158 | 76 | 0.58 | 1.69 | 7.07 | 1.78 | 2.07 | |
| -20 (- 4) | 703 | 177 | 206 | 88 | 0.66 | 2.21 | 7.97 | 2.01 | 2.34 | |
| -15 (+ 5) | 898 | 226 | 263 | 100 | 0.75 | 2.83 | 8.95 | 2.26 | 2.62 | |
| -10 (+14) | 1125 | 283 | 330 | 113 | 0.84 | 3.55 | 9.98 | 2.51 | 2.92 | |

| 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] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 267 | 67 | 78 | 55 | 0.41 | 0.84 | 4.92 | 1.24 | 1.44 | |
| -30 (-22) | 359 | 90 | 105 | 66 | 0.50 | 1.13 | 5.49 | 1.38 | 1.61 | |
| -25 (-13) | 486 | 123 | 143 | 79 | 0.60 | 1.53 | 6.19 | 1.56 | 1.81 | |
| -20 (- 4) | 648 | 163 | 190 | 92 | 0.70 | 2.04 | 6.99 | 1.76 | 2.05 | |
| -15 (+ 5) | 844 | 213 | 247 | 107 | 0.81 | 2.66 | 7.86 | 1.98 | 2.30 | |
| -10 (+14) | 1072 | 270 | 314 | 122 | 0.91 | 3.38 | 8.78 | 2.21 | 2.57 | |

E - PERFORMANCE - CURVES

| 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] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 479 | 121 | 140 | 82 | 0.58 | 1.50 | 5.89 | 1.48 | 1.73 | |
| -30 (-22) | 609 | 154 | 179 | 92 | 0.66 | 1.91 | 6.66 | 1.68 | 1.95 | |
| -25 (-13) | 759 | 191 | 222 | 101 | 0.74 | 2.38 | 7.52 | 1.89 | 2.20 | |
| -20 (- 4) | 938 | 236 | 275 | 110 | 0.83 | 2.95 | 8.47 | 2.14 | 2.48 | |
| -15 (+ 5) | 1158 | 292 | 339 | 121 | 0.91 | 3.64 | 9.53 | 2.40 | 2.79 | |
| -10 (+14) | 1430 | 360 | 419 | 133 | 1.00 | 4.51 | 10.71 | 2.70 | 3.14 | |

| 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) | 463 | 117 | 136 | 85 | 0.61 | 1.45 | 5.40 | 1.36 | 1.58 | |
| -30 (-22) | 581 | 146 | 170 | 97 | 0.71 | 1.82 | 6.01 | 1.51 | 1.76 | |
| -25 (-13) | 713 | 180 | 209 | 107 | 0.80 | 2.24 | 6.69 | 1.68 | 1.96 | |
| -20 (- 4) | 871 | 220 | 255 | 118 | 0.89 | 2.74 | 7.45 | 1.88 | 2.18 | |
| -15 (+ 5) | 1067 | 269 | 313 | 129 | 0.98 | 3.36 | 8.30 | 2.09 | 2.43 | |
| -10 (+14) | 1310 | 330 | 384 | 141 | 1.07 | 4.13 | 9.25 | 2.33 | 2.71 | |

| 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) | 406 | 102 | 119 | 87 | 0.64 | 1.27 | 4.65 | 1.17 | 1.36 | |
| -30 (-22) | 534 | 135 | 156 | 101 | 0.74 | 1.67 | 5.27 | 1.33 | 1.54 | |
| -25 (-13) | 673 | 170 | 197 | 113 | 0.84 | 2.11 | 5.95 | 1.50 | 1.74 | |
| -20 (- 4) | 835 | 210 | 245 | 125 | 0.94 | 2.62 | 6.70 | 1.69 | 1.96 | |
| -15 (+ 5) | 1029 | 259 | 302 | 137 | 1.05 | 3.24 | 7.52 | 1.89 | 2.20 | |
| -10 (+14) | 1268 | 320 | 372 | 150 | 1.15 | 4.00 | 8.43 | 2.12 | 2.47 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard EUEM | | |
| 2 Tray holder | Yes | | |
| 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 40° up + 45° 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 10° 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 42° up + 45° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |