

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEM T404U |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513903040 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|---|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-290 | | |
| 3 Nominal voltage and frequency | 230 / 40-150 | [V / Hz] | |
| 4 Application type | Low-Medium Back Pressure (Light Commercial / Peak 65°C) | | |
| 4.1 Evaporating temperature range | -40°C to 0°C | (-40°F to 32°F) | |
| 5 Motor type | BPM | | |
| 6 Starting torque | LST/HST - Low/High starting torque | | |
| 7 Expansion device | Capillary tube or Expansion valve | | |
| 8 Compressor cooling | Operating voltage range | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | - | - | - |
| 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 | 18.4 | [kgf/cm ²] (262 psig) | / °C - °F |
| 9.2 Peak | 20.6 | [kgf/cm ²] (293 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|-----------------|----------------------------------|
| 1 Commercial designation | 1/3+ | [hp] |
| 2 Displacement | 4.25 | [cm ³] (0.259 cu.in) |
| 2.1 Bore [mm] | 19.000 | |
| 2.2 Stroke [mm] | 15.000 | |
| 3 Lubricant charge | 220 | [ml] (7.44 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO22 | |
| 4 Weight (with oil charge) | 7.18 | [kg] (15.83 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELECTRICAL 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 | CF03B02 M XX XX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | INVERTER CF03B02 M X | |
| 6 Start winding resistance | 13.65 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 13.65 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | VDE | |

D - PERFORMANCE - CHECK POINT DATA

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|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| 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] |
| 308 | 78 | 90 | 60 | 0.45 | 0.92 | 5.12 | 1.29 | 1.50 |

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|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V1200RPM | | | ASHRAELBP32 Fan | | 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] |
| 314 | 79 | 92 | 58 | 0.43 | 0.93 | 5.44 | 1.37 | 1.59 |

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|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| 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] |
| 386 | 97 | 113 | 71 | 0.52 | 1.15 | 5.44 | 1.37 | 1.59 |

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|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V1600RPM | | | ASHRAELBP32 Fan | | 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] |
| 398 | 100 | 117 | 71 | 0.50 | 1.18 | 5.58 | 1.41 | 1.64 |

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|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| 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] |
| 494 | 124 | 145 | 85 | 0.61 | 1.47 | 5.80 | 1.46 | 1.70 |

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|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V2000RPM | | | ASHRAELBP32 Fan | | 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] |
| 510 | 128 | 149 | 84 | 0.56 | 1.52 | 6.05 | 1.52 | 1.77 |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| 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] |
| 742 | 187 | 217 | 125 | 0.87 | 2.21 | 5.94 | 1.50 | 1.74 |

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|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V3000RPM | | | ASHRAELBP32 Fan | | 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] |
| 764 | 193 | 224 | 125 | 0.88 | 2.27 | 6.11 | 1.54 | 1.79 |

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|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V3600RPM | | | 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] |
| 873 | 220 | 256 | 147 | 1.03 | 2.60 | 5.94 | 1.50 | 1.74 |

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|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V3600RPM | | | ASHRAELBP32 Fan | | 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] |
| 906 | 228 | 265 | 149 | 1.04 | 2.70 | 6.07 | 1.53 | 1.78 |

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|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| 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] |
| 1109 | 280 | 325 | 190 | 1.29 | 3.30 | 5.83 | 1.47 | 1.71 |

| | | | | | | | | |
|---|----------|-----|----------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @220V4500RPM | | | ASHRAELBP32 Fan | | 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] |
| 1147 | 289 | 336 | 193 | 1.30 | 3.41 | 5.94 | 1.50 | 1.74 |

E - PERFORMANCE - CURVES

| | | |
|------------------|-----------------|---|
| TEST CONDITIONS: | ASHRAE32 | (Condensing temperature 35°C (+95°F)) |
|------------------|-----------------|---|

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|-------------------------------|-------------------------|---------------------------|----------|-----------|-------|
| 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] |
| -40 (-40) | 179 | 45 | 52 | 29 | 0.25 | 0.53 | 6.21 | 1.57 | 1.82 | |
| -35 (-31) | 217 | 55 | 64 | 35 | 0.29 | 0.64 | 6.19 | 1.56 | 1.81 | |
| -30 (-22) | 261 | 66 | 77 | 41 | 0.33 | 0.78 | 6.41 | 1.61 | 1.88 | |
| -25 (-13) | 314 | 79 | 92 | 46 | 0.36 | 0.93 | 6.86 | 1.73 | 2.01 | |
| -20 (- 4) | 376 | 95 | 110 | 50 | 0.39 | 1.12 | 7.54 | 1.90 | 2.21 | |
| -15 (+ 5) | 449 | 113 | 132 | 54 | 0.42 | 1.35 | 8.45 | 2.13 | 2.47 | |
| -10 (+14) | 534 | 134 | 156 | 56 | 0.44 | 1.61 | 9.58 | 2.41 | 2.81 | |
| -5 (+23) | 631 | 159 | 185 | 58 | 0.46 | 1.91 | 10.93 | 2.75 | 3.20 | |
| 0 (+32) | 743 | 187 | 218 | 59 | 0.47 | 2.26 | 12.50 | 3.15 | 3.66 | |

| 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] | |
| -40 (-40) | 170 | 43 | 50 | 32 | 0.27 | 0.50 | 5.45 | 1.37 | 1.60 | | |
| -35 (-31) | 207 | 52 | 61 | 39 | 0.31 | 0.61 | 5.36 | 1.35 | 1.57 | | |
| -30 (-22) | 251 | 63 | 74 | 46 | 0.35 | 0.74 | 5.45 | 1.37 | 1.60 | | |
| -25 (-13) | 303 | 76 | 89 | 52 | 0.40 | 0.90 | 5.72 | 1.44 | 1.68 | | |
| -20 (- 4) | 364 | 92 | 107 | 58 | 0.44 | 1.09 | 6.16 | 1.55 | 1.80 | | |
| -15 (+ 5) | 436 | 110 | 128 | 64 | 0.48 | 1.31 | 6.77 | 1.71 | 1.98 | | |
| -10 (+14) | 519 | 131 | 152 | 69 | 0.52 | 1.56 | 7.54 | 1.90 | 2.21 | | |
| -5 (+23) | 615 | 155 | 180 | 73 | 0.55 | 1.86 | 8.48 | 2.14 | 2.48 | | |
| 0 (+32) | 726 | 183 | 213 | 77 | 0.58 | 2.21 | 9.57 | 2.41 | 2.81 | | |

| 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] | |
| -40 (-40) | 156 | 39 | 46 | 33 | 0.27 | 0.46 | 4.84 | 1.22 | 1.42 | | |
| -35 (-31) | 193 | 49 | 57 | 41 | 0.32 | 0.57 | 4.75 | 1.20 | 1.39 | | |
| -30 (-22) | 236 | 59 | 69 | 49 | 0.38 | 0.70 | 4.78 | 1.20 | 1.40 | | |
| -25 (-13) | 287 | 72 | 84 | 58 | 0.43 | 0.85 | 4.92 | 1.24 | 1.44 | | |
| -20 (- 4) | 348 | 88 | 102 | 66 | 0.49 | 1.04 | 5.18 | 1.31 | 1.52 | | |
| -15 (+ 5) | 418 | 105 | 123 | 74 | 0.55 | 1.25 | 5.55 | 1.40 | 1.63 | | |
| -10 (+14) | 500 | 126 | 147 | 82 | 0.61 | 1.51 | 6.03 | 1.52 | 1.77 | | |
| -5 (+23) | 595 | 150 | 174 | 90 | 0.67 | 1.80 | 6.61 | 1.67 | 1.94 | | |
| 0 (+32) | 704 | 177 | 206 | 98 | 0.72 | 2.14 | 7.29 | 1.84 | 2.14 | | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 | (-40) | 137 | 35 | 40 | 31 | 0.27 | 0.40 | 4.26 | 1.07 | 1.25 |
| -35 | (-31) | 173 | 44 | 51 | 41 | 0.33 | 0.51 | 4.22 | 1.06 | 1.24 |
| -30 | (-22) | 216 | 54 | 63 | 52 | 0.40 | 0.64 | 4.24 | 1.07 | 1.24 |
| -25 | (-13) | 266 | 67 | 78 | 63 | 0.48 | 0.79 | 4.32 | 1.09 | 1.27 |
| -20 | (- 4) | 325 | 82 | 95 | 74 | 0.55 | 0.97 | 4.46 | 1.12 | 1.31 |
| -15 | (+ 5) | 395 | 100 | 116 | 86 | 0.63 | 1.18 | 4.65 | 1.17 | 1.36 |
| -10 | (+14) | 476 | 120 | 140 | 98 | 0.72 | 1.43 | 4.89 | 1.23 | 1.43 |
| -5 | (+23) | 570 | 144 | 167 | 110 | 0.80 | 1.72 | 5.18 | 1.30 | 1.52 |
| 0 | (+32) | 677 | 171 | 198 | 122 | 0.88 | 2.06 | 5.51 | 1.39 | 1.61 |

| 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] |
| -40 | (-40) | 222 | 56 | 65 | 36 | 0.29 | 0.66 | 6.04 | 1.52 | 1.77 |
| -35 | (-31) | 275 | 69 | 81 | 44 | 0.34 | 0.82 | 6.24 | 1.57 | 1.83 |
| -30 | (-22) | 335 | 84 | 98 | 51 | 0.39 | 0.99 | 6.59 | 1.66 | 1.93 |
| -25 | (-13) | 403 | 102 | 118 | 57 | 0.43 | 1.20 | 7.11 | 1.79 | 2.08 |
| -20 | (- 4) | 483 | 122 | 141 | 62 | 0.46 | 1.44 | 7.82 | 1.97 | 2.29 |
| -15 | (+ 5) | 576 | 145 | 169 | 67 | 0.49 | 1.72 | 8.74 | 2.20 | 2.56 |
| -10 | (+14) | 685 | 173 | 201 | 70 | 0.52 | 2.06 | 9.88 | 2.49 | 2.90 |
| -5 | (+23) | 813 | 205 | 238 | 72 | 0.54 | 2.46 | 11.27 | 2.84 | 3.30 |
| 0 | (+32) | 961 | 242 | 282 | 74 | 0.55 | 2.92 | 12.92 | 3.26 | 3.79 |

| 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] |
| -40 | (-40) | 204 | 51 | 60 | 40 | 0.31 | 0.60 | 5.23 | 1.32 | 1.53 |
| -35 | (-31) | 257 | 65 | 75 | 48 | 0.36 | 0.76 | 5.39 | 1.36 | 1.58 |
| -30 | (-22) | 316 | 80 | 93 | 56 | 0.42 | 0.94 | 5.64 | 1.42 | 1.65 |
| -25 | (-13) | 383 | 97 | 112 | 63 | 0.46 | 1.14 | 6.01 | 1.51 | 1.76 |
| -20 | (- 4) | 461 | 116 | 135 | 70 | 0.51 | 1.38 | 6.51 | 1.64 | 1.91 |
| -15 | (+ 5) | 552 | 139 | 162 | 76 | 0.55 | 1.65 | 7.17 | 1.81 | 2.10 |
| -10 | (+14) | 658 | 166 | 193 | 82 | 0.59 | 1.98 | 8.00 | 2.02 | 2.34 |
| -5 | (+23) | 782 | 197 | 229 | 87 | 0.63 | 2.37 | 9.01 | 2.27 | 2.64 |
| 0 | (+32) | 927 | 234 | 272 | 91 | 0.66 | 2.82 | 10.24 | 2.58 | 3.00 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1600RPM | | 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] |
| -40 (-40) | 185 | 47 | 54 | 41 | 0.32 | 0.55 | 4.64 | 1.17 | 1.36 | |
| -35 (-31) | 238 | 60 | 70 | 50 | 0.38 | 0.70 | 4.79 | 1.21 | 1.40 | |
| -30 (-22) | 295 | 74 | 87 | 59 | 0.44 | 0.88 | 4.99 | 1.26 | 1.46 | |
| -25 (-13) | 360 | 91 | 106 | 68 | 0.50 | 1.07 | 5.25 | 1.32 | 1.54 | |
| -20 (- 4) | 436 | 110 | 128 | 77 | 0.56 | 1.30 | 5.59 | 1.41 | 1.64 | |
| -15 (+ 5) | 524 | 132 | 153 | 86 | 0.61 | 1.57 | 6.02 | 1.52 | 1.76 | |
| -10 (+14) | 626 | 158 | 183 | 94 | 0.67 | 1.88 | 6.58 | 1.66 | 1.93 | |
| -5 (+23) | 746 | 188 | 219 | 103 | 0.72 | 2.26 | 7.26 | 1.83 | 2.13 | |
| 0 (+32) | 886 | 223 | 260 | 110 | 0.78 | 2.69 | 8.10 | 2.04 | 2.37 | |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 (-40) | 166 | 42 | 49 | 40 | 0.32 | 0.49 | 4.12 | 1.04 | 1.21 | |
| -35 (-31) | 217 | 55 | 64 | 50 | 0.39 | 0.64 | 4.31 | 1.09 | 1.26 | |
| -30 (-22) | 272 | 69 | 80 | 61 | 0.46 | 0.81 | 4.49 | 1.13 | 1.32 | |
| -25 (-13) | 335 | 84 | 98 | 73 | 0.53 | 1.00 | 4.68 | 1.18 | 1.37 | |
| -20 (- 4) | 407 | 103 | 119 | 84 | 0.60 | 1.21 | 4.90 | 1.23 | 1.44 | |
| -15 (+ 5) | 491 | 124 | 144 | 96 | 0.67 | 1.47 | 5.16 | 1.30 | 1.51 | |
| -10 (+14) | 589 | 148 | 173 | 107 | 0.75 | 1.77 | 5.48 | 1.38 | 1.60 | |
| -5 (+23) | 704 | 177 | 206 | 119 | 0.82 | 2.13 | 5.88 | 1.48 | 1.72 | |
| 0 (+32) | 838 | 211 | 246 | 131 | 0.90 | 2.55 | 6.38 | 1.61 | 1.87 | |

| TEST CONDITIONS: @220V2000RPM | | 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] |
| -40 (-40) | 279 | 70 | 82 | 46 | 0.37 | 0.83 | 6.02 | 1.52 | 1.76 | |
| -35 (-31) | 345 | 87 | 101 | 54 | 0.42 | 1.02 | 6.33 | 1.59 | 1.85 | |
| -30 (-22) | 421 | 106 | 123 | 62 | 0.47 | 1.25 | 6.78 | 1.71 | 1.99 | |
| -25 (-13) | 510 | 129 | 149 | 69 | 0.52 | 1.52 | 7.41 | 1.87 | 2.17 | |
| -20 (- 4) | 614 | 155 | 180 | 75 | 0.56 | 1.83 | 8.22 | 2.07 | 2.41 | |
| -15 (+ 5) | 737 | 186 | 216 | 80 | 0.60 | 2.21 | 9.24 | 2.33 | 2.71 | |
| -10 (+14) | 881 | 222 | 258 | 85 | 0.63 | 2.65 | 10.50 | 2.65 | 3.08 | |
| -5 (+23) | 1049 | 264 | 308 | 88 | 0.65 | 3.17 | 12.00 | 3.02 | 3.52 | |
| 0 (+32) | 1245 | 314 | 365 | 90 | 0.66 | 3.78 | 13.77 | 3.47 | 4.03 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V2000RPM | | 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] |
| -40 | (-40) | 259 | 65 | 76 | 49 | 0.38 | 0.77 | 5.34 | 1.35 | 1.57 |
| -35 | (-31) | 325 | 82 | 95 | 58 | 0.44 | 0.96 | 5.56 | 1.40 | 1.63 |
| -30 | (-22) | 400 | 101 | 117 | 67 | 0.50 | 1.18 | 5.88 | 1.48 | 1.72 |
| -25 | (-13) | 486 | 123 | 143 | 76 | 0.56 | 1.45 | 6.33 | 1.59 | 1.85 |
| -20 | (- 4) | 588 | 148 | 172 | 84 | 0.61 | 1.75 | 6.91 | 1.74 | 2.02 |
| -15 | (+ 5) | 708 | 178 | 207 | 92 | 0.66 | 2.12 | 7.65 | 1.93 | 2.24 |
| -10 | (+14) | 848 | 214 | 249 | 99 | 0.71 | 2.55 | 8.57 | 2.16 | 2.51 |
| -5 | (+23) | 1012 | 255 | 297 | 105 | 0.75 | 3.06 | 9.69 | 2.44 | 2.84 |
| 0 | (+32) | 1203 | 303 | 352 | 110 | 0.79 | 3.66 | 11.03 | 2.78 | 3.23 |

| 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] |
| -40 | (-40) | 236 | 60 | 69 | 50 | 0.39 | 0.70 | 4.82 | 1.22 | 1.41 |
| -35 | (-31) | 301 | 76 | 88 | 60 | 0.46 | 0.89 | 5.03 | 1.27 | 1.47 |
| -30 | (-22) | 375 | 94 | 110 | 71 | 0.52 | 1.11 | 5.28 | 1.33 | 1.55 |
| -25 | (-13) | 460 | 116 | 135 | 82 | 0.59 | 1.37 | 5.60 | 1.41 | 1.64 |
| -20 | (- 4) | 559 | 141 | 164 | 92 | 0.66 | 1.67 | 6.01 | 1.52 | 1.76 |
| -15 | (+ 5) | 676 | 170 | 198 | 102 | 0.73 | 2.02 | 6.54 | 1.65 | 1.92 |
| -10 | (+14) | 813 | 205 | 238 | 112 | 0.80 | 2.45 | 7.19 | 1.81 | 2.11 |
| -5 | (+23) | 973 | 245 | 285 | 121 | 0.86 | 2.94 | 7.99 | 2.01 | 2.34 |
| 0 | (+32) | 1159 | 292 | 339 | 130 | 0.92 | 3.52 | 8.96 | 2.26 | 2.63 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 | (-40) | 209 | 53 | 61 | 48 | 0.39 | 0.62 | 4.31 | 1.09 | 1.26 |
| -35 | (-31) | 274 | 69 | 80 | 60 | 0.46 | 0.81 | 4.56 | 1.15 | 1.34 |
| -30 | (-22) | 347 | 87 | 102 | 73 | 0.54 | 1.03 | 4.80 | 1.21 | 1.41 |
| -25 | (-13) | 430 | 108 | 126 | 86 | 0.62 | 1.28 | 5.07 | 1.28 | 1.49 |
| -20 | (- 4) | 527 | 133 | 155 | 99 | 0.70 | 1.57 | 5.38 | 1.36 | 1.58 |
| -15 | (+ 5) | 641 | 162 | 188 | 112 | 0.79 | 1.92 | 5.75 | 1.45 | 1.68 |
| -10 | (+14) | 775 | 195 | 227 | 125 | 0.87 | 2.33 | 6.20 | 1.56 | 1.82 |
| -5 | (+23) | 931 | 235 | 273 | 137 | 0.96 | 2.81 | 6.74 | 1.70 | 1.98 |
| 0 | (+32) | 1112 | 280 | 326 | 150 | 1.04 | 3.38 | 7.41 | 1.87 | 2.17 |

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] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 392 | 99 | 115 | 71 | 0.55 | 1.16 | 5.54 | 1.40 | 1.62 |
| -35 | (-31) | 499 | 126 | 146 | 82 | 0.61 | 1.48 | 6.04 | 1.52 | 1.77 |
| -30 | (-22) | 620 | 156 | 182 | 93 | 0.68 | 1.84 | 6.63 | 1.67 | 1.94 |
| -25 | (-13) | 761 | 192 | 223 | 104 | 0.75 | 2.26 | 7.34 | 1.85 | 2.15 |
| -20 | (- 4) | 925 | 233 | 271 | 113 | 0.81 | 2.76 | 8.19 | 2.06 | 2.40 |
| -15 | (+ 5) | 1116 | 281 | 327 | 122 | 0.87 | 3.34 | 9.22 | 2.32 | 2.70 |
| -10 | (+14) | 1338 | 337 | 392 | 129 | 0.92 | 4.03 | 10.45 | 2.63 | 3.06 |
| -5 | (+23) | 1595 | 402 | 467 | 135 | 0.95 | 4.83 | 11.90 | 3.00 | 3.49 |
| 0 | (+32) | 1892 | 477 | 555 | 138 | 0.97 | 5.75 | 13.61 | 3.43 | 3.99 |

| 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] |
| -40 | (-40) | 374 | 94 | 110 | 75 | 0.57 | 1.10 | 5.04 | 1.27 | 1.48 |
| -35 | (-31) | 476 | 120 | 139 | 87 | 0.64 | 1.41 | 5.43 | 1.37 | 1.59 |
| -30 | (-22) | 593 | 149 | 174 | 100 | 0.72 | 1.76 | 5.87 | 1.48 | 1.72 |
| -25 | (-13) | 728 | 184 | 213 | 113 | 0.80 | 2.17 | 6.39 | 1.61 | 1.87 |
| -20 | (- 4) | 887 | 224 | 260 | 125 | 0.88 | 2.65 | 7.03 | 1.77 | 2.06 |
| -15 | (+ 5) | 1072 | 270 | 314 | 137 | 0.96 | 3.21 | 7.80 | 1.97 | 2.29 |
| -10 | (+14) | 1289 | 325 | 378 | 147 | 1.03 | 3.88 | 8.74 | 2.20 | 2.56 |
| -5 | (+23) | 1540 | 388 | 451 | 156 | 1.09 | 4.66 | 9.87 | 2.49 | 2.89 |
| 0 | (+32) | 1831 | 461 | 536 | 164 | 1.14 | 5.56 | 11.23 | 2.83 | 3.29 |

| 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] |
| -40 | (-40) | 348 | 88 | 102 | 75 | 0.57 | 1.03 | 4.67 | 1.18 | 1.37 |
| -35 | (-31) | 446 | 112 | 131 | 90 | 0.65 | 1.32 | 4.99 | 1.26 | 1.46 |
| -30 | (-22) | 559 | 141 | 164 | 105 | 0.74 | 1.66 | 5.34 | 1.34 | 1.56 |
| -25 | (-13) | 689 | 174 | 202 | 120 | 0.84 | 2.05 | 5.73 | 1.44 | 1.68 |
| -20 | (- 4) | 843 | 212 | 247 | 135 | 0.94 | 2.51 | 6.20 | 1.56 | 1.82 |
| -15 | (+ 5) | 1023 | 258 | 300 | 150 | 1.04 | 3.06 | 6.77 | 1.71 | 1.98 |
| -10 | (+14) | 1233 | 311 | 361 | 164 | 1.13 | 3.71 | 7.47 | 1.88 | 2.19 |
| -5 | (+23) | 1479 | 373 | 433 | 177 | 1.22 | 4.47 | 8.33 | 2.10 | 2.44 |
| 0 | (+32) | 1763 | 444 | 517 | 189 | 1.30 | 5.36 | 9.38 | 2.36 | 2.75 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 | (-40) | 316 | 80 | 93 | 72 | 0.57 | 0.93 | 4.30 | 1.08 | 1.26 |
| -35 | (-31) | 410 | 103 | 120 | 89 | 0.66 | 1.21 | 4.62 | 1.16 | 1.35 |
| -30 | (-22) | 518 | 131 | 152 | 107 | 0.76 | 1.54 | 4.91 | 1.24 | 1.44 |
| -25 | (-13) | 644 | 162 | 189 | 125 | 0.87 | 1.91 | 5.23 | 1.32 | 1.53 |
| -20 | (- 4) | 793 | 200 | 232 | 143 | 0.99 | 2.36 | 5.58 | 1.41 | 1.64 |
| -15 | (+ 5) | 967 | 244 | 283 | 161 | 1.11 | 2.90 | 6.01 | 1.51 | 1.76 |
| -10 | (+14) | 1173 | 295 | 344 | 179 | 1.22 | 3.53 | 6.52 | 1.64 | 1.91 |
| -5 | (+23) | 1412 | 356 | 414 | 196 | 1.33 | 4.27 | 7.16 | 1.81 | 2.10 |
| 0 | (+32) | 1690 | 426 | 495 | 212 | 1.44 | 5.14 | 7.96 | 2.01 | 2.33 |

| TEST CONDITIONS: @220V3600RPM | | 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] |
| -40 | (-40) | 468 | 118 | 137 | 87 | 0.66 | 1.38 | 5.38 | 1.36 | 1.58 |
| -35 | (-31) | 592 | 149 | 173 | 100 | 0.74 | 1.75 | 5.92 | 1.49 | 1.73 |
| -30 | (-22) | 737 | 186 | 216 | 112 | 0.82 | 2.19 | 6.55 | 1.65 | 1.92 |
| -25 | (-13) | 908 | 229 | 266 | 125 | 0.90 | 2.70 | 7.29 | 1.84 | 2.14 |
| -20 | (- 4) | 1108 | 279 | 325 | 136 | 0.98 | 3.31 | 8.15 | 2.05 | 2.39 |
| -15 | (+ 5) | 1344 | 339 | 394 | 147 | 1.06 | 4.03 | 9.17 | 2.31 | 2.69 |
| -10 | (+14) | 1618 | 408 | 474 | 157 | 1.12 | 4.87 | 10.34 | 2.61 | 3.03 |
| -5 | (+23) | 1936 | 488 | 567 | 166 | 1.17 | 5.85 | 11.71 | 2.95 | 3.43 |
| 0 | (+32) | 2301 | 580 | 674 | 173 | 1.21 | 7.00 | 13.27 | 3.34 | 3.89 |

| TEST CONDITIONS: @220V3600RPM | | 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] |
| -40 | (-40) | 437 | 110 | 128 | 90 | 0.67 | 1.29 | 4.91 | 1.24 | 1.44 |
| -35 | (-31) | 556 | 140 | 163 | 104 | 0.76 | 1.65 | 5.33 | 1.34 | 1.56 |
| -30 | (-22) | 696 | 175 | 204 | 119 | 0.85 | 2.06 | 5.82 | 1.47 | 1.70 |
| -25 | (-13) | 861 | 217 | 252 | 134 | 0.95 | 2.56 | 6.38 | 1.61 | 1.87 |
| -20 | (- 4) | 1056 | 266 | 309 | 149 | 1.05 | 3.15 | 7.05 | 1.78 | 2.07 |
| -15 | (+ 5) | 1285 | 324 | 376 | 164 | 1.14 | 3.85 | 7.83 | 1.97 | 2.29 |
| -10 | (+14) | 1552 | 391 | 455 | 177 | 1.23 | 4.67 | 8.75 | 2.20 | 2.56 |
| -5 | (+23) | 1862 | 469 | 546 | 190 | 1.31 | 5.63 | 9.82 | 2.47 | 2.88 |
| 0 | (+32) | 2220 | 559 | 650 | 202 | 1.38 | 6.75 | 11.06 | 2.79 | 3.24 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3600RPM | | 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] |
| -40 (-40) | 406 | 102 | 119 | 91 | 0.69 | 1.20 | 4.49 | 1.13 | 1.32 | |
| -35 (-31) | 518 | 131 | 152 | 107 | 0.78 | 1.53 | 4.86 | 1.22 | 1.42 | |
| -30 (-22) | 651 | 164 | 191 | 124 | 0.88 | 1.93 | 5.26 | 1.33 | 1.54 | |
| -25 (-13) | 809 | 204 | 237 | 142 | 0.99 | 2.41 | 5.71 | 1.44 | 1.67 | |
| -20 (- 4) | 997 | 251 | 292 | 159 | 1.11 | 2.97 | 6.23 | 1.57 | 1.83 | |
| -15 (+ 5) | 1217 | 307 | 357 | 177 | 1.22 | 3.65 | 6.84 | 1.72 | 2.00 | |
| -10 (+14) | 1476 | 372 | 433 | 194 | 1.33 | 4.44 | 7.55 | 1.90 | 2.21 | |
| -5 (+23) | 1777 | 448 | 521 | 211 | 1.44 | 5.37 | 8.39 | 2.11 | 2.46 | |
| 0 (+32) | 2125 | 535 | 623 | 227 | 1.54 | 6.46 | 9.37 | 2.36 | 2.75 | |

| TEST CONDITIONS: @220V3600RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 (-40) | 373 | 94 | 109 | 91 | 0.70 | 1.10 | 4.03 | 1.02 | 1.18 | |
| -35 (-31) | 478 | 120 | 140 | 109 | 0.80 | 1.41 | 4.40 | 1.11 | 1.29 | |
| -30 (-22) | 602 | 152 | 177 | 127 | 0.91 | 1.79 | 4.77 | 1.20 | 1.40 | |
| -25 (-13) | 751 | 189 | 220 | 147 | 1.03 | 2.23 | 5.16 | 1.30 | 1.51 | |
| -20 (- 4) | 929 | 234 | 272 | 167 | 1.15 | 2.77 | 5.60 | 1.41 | 1.64 | |
| -15 (+ 5) | 1140 | 287 | 334 | 188 | 1.29 | 3.41 | 6.09 | 1.53 | 1.78 | |
| -10 (+14) | 1389 | 350 | 407 | 208 | 1.42 | 4.18 | 6.65 | 1.68 | 1.95 | |
| -5 (+23) | 1680 | 423 | 492 | 229 | 1.55 | 5.08 | 7.31 | 1.84 | 2.14 | |
| 0 (+32) | 2017 | 508 | 591 | 249 | 1.68 | 6.13 | 8.09 | 2.04 | 2.37 | |

| 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] |
| -40 (-40) | 569 | 143 | 167 | 110 | 0.84 | 1.68 | 5.17 | 1.30 | 1.51 | |
| -35 (-31) | 732 | 185 | 215 | 128 | 0.94 | 2.17 | 5.70 | 1.44 | 1.67 | |
| -30 (-22) | 922 | 232 | 270 | 145 | 1.04 | 2.74 | 6.32 | 1.59 | 1.85 | |
| -25 (-13) | 1143 | 288 | 335 | 162 | 1.15 | 3.40 | 7.04 | 1.77 | 2.06 | |
| -20 (- 4) | 1399 | 353 | 410 | 179 | 1.27 | 4.17 | 7.86 | 1.98 | 2.30 | |
| -15 (+ 5) | 1695 | 427 | 497 | 193 | 1.37 | 5.08 | 8.81 | 2.22 | 2.58 | |
| -10 (+14) | 2037 | 513 | 597 | 207 | 1.46 | 6.13 | 9.88 | 2.49 | 2.90 | |
| -5 (+23) | 2427 | 612 | 711 | 219 | 1.54 | 7.34 | 11.10 | 2.80 | 3.25 | |
| 0 (+32) | 2872 | 724 | 842 | 229 | 1.59 | 8.73 | 12.48 | 3.14 | 3.66 | |

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] |
| -40 | (-40) | 531 | 134 | 156 | 114 | 0.84 | 1.57 | 4.70 | 1.18 | 1.38 |
| -35 | (-31) | 690 | 174 | 202 | 134 | 0.95 | 2.04 | 5.14 | 1.30 | 1.51 |
| -30 | (-22) | 876 | 221 | 257 | 154 | 1.07 | 2.60 | 5.65 | 1.42 | 1.66 |
| -25 | (-13) | 1094 | 276 | 320 | 175 | 1.20 | 3.25 | 6.23 | 1.57 | 1.82 |
| -20 | (- 4) | 1348 | 340 | 395 | 195 | 1.34 | 4.02 | 6.89 | 1.74 | 2.02 |
| -15 | (+ 5) | 1643 | 414 | 481 | 214 | 1.47 | 4.92 | 7.64 | 1.93 | 2.24 |
| -10 | (+14) | 1983 | 500 | 581 | 233 | 1.60 | 5.97 | 8.50 | 2.14 | 2.49 |
| -5 | (+23) | 2374 | 598 | 696 | 251 | 1.71 | 7.18 | 9.49 | 2.39 | 2.78 |
| 0 | (+32) | 2819 | 710 | 826 | 267 | 1.80 | 8.57 | 10.60 | 2.67 | 3.10 |

| 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] |
| -40 | (-40) | 486 | 122 | 142 | 114 | 0.84 | 1.43 | 4.28 | 1.08 | 1.25 |
| -35 | (-31) | 636 | 160 | 186 | 136 | 0.96 | 1.88 | 4.68 | 1.18 | 1.37 |
| -30 | (-22) | 814 | 205 | 238 | 159 | 1.09 | 2.41 | 5.12 | 1.29 | 1.50 |
| -25 | (-13) | 1024 | 258 | 300 | 182 | 1.24 | 3.05 | 5.60 | 1.41 | 1.64 |
| -20 | (- 4) | 1272 | 320 | 373 | 206 | 1.40 | 3.79 | 6.15 | 1.55 | 1.80 |
| -15 | (+ 5) | 1561 | 393 | 457 | 230 | 1.56 | 4.67 | 6.76 | 1.70 | 1.98 |
| -10 | (+14) | 1896 | 478 | 556 | 253 | 1.71 | 5.70 | 7.45 | 1.88 | 2.18 |
| -5 | (+23) | 2282 | 575 | 669 | 276 | 1.86 | 6.90 | 8.24 | 2.08 | 2.41 |
| 0 | (+32) | 2723 | 686 | 798 | 299 | 1.99 | 8.28 | 9.13 | 2.30 | 2.67 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°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] |
| -40 | (-40) | 434 | 109 | 127 | 112 | 0.86 | 1.28 | 3.82 | 0.96 | 1.12 |
| -35 | (-31) | 571 | 144 | 167 | 136 | 0.97 | 1.69 | 4.22 | 1.06 | 1.24 |
| -30 | (-22) | 736 | 186 | 216 | 160 | 1.11 | 2.18 | 4.63 | 1.17 | 1.36 |
| -25 | (-13) | 935 | 236 | 274 | 186 | 1.27 | 2.78 | 5.07 | 1.28 | 1.48 |
| -20 | (- 4) | 1171 | 295 | 343 | 213 | 1.45 | 3.49 | 5.53 | 1.39 | 1.62 |
| -15 | (+ 5) | 1449 | 365 | 425 | 240 | 1.62 | 4.34 | 6.04 | 1.52 | 1.77 |
| -10 | (+14) | 1775 | 447 | 520 | 268 | 1.80 | 5.34 | 6.61 | 1.67 | 1.94 |
| -5 | (+23) | 2152 | 542 | 630 | 296 | 1.98 | 6.50 | 7.25 | 1.83 | 2.12 |
| 0 | (+32) | 2585 | 651 | 757 | 324 | 2.14 | 7.85 | 7.97 | 2.01 | 2.33 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-----------------|------|--------------------------|
| 1 Base plate | Universal EUEM | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 8.2 +0.12/-0.08 | [mm] | (0.323" +0.005"/-0.003") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Straight | | |
| 3.2 DISCHARGE | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Straight | | |
| 3.3 PROCESS | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.3.1 Material | Copper | | |
| 3.3.2 Shape | Straight | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |