

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VEM T403U |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513903046 |

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 - Curves until T.Evap - | | |
| 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) | Static/Fan | 103 to 140 V | 103 to 140 V |
| 8.2 LBP (43°C Ambient temperature) | Static/Fan | 103 to 140 V | 103 to 140 V |
| 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

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|-------------------------------|-----------------|----------------------------------|
| 1 Commercial designation | 1/3 | [hp] |
| 2 Displacement | 3.00 | [cm ³] (0.183 cu.in) |
| 2.1 Bore [mm] | 19.000 | |
| 2.2 Stroke [mm] | 10.600 | |
| 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) | 7.2 | [kg] (15.87 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELECTRICAL DATA

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|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 40-150 Hz 3 ~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | CF03B03 N XX XX | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | INVERTER CF03B03 N X | |
| 6 Start winding resistance | 28.36 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 28.36 | [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 | CE - TUV - UKCA | |

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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 203 | 51 | 59 | 35 | 0.30 | 0.60 | 5.75 | 1.45 | 1.68 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 207 | 52 | 61 | 34 | 0.30 | 0.62 | 6.02 | 1.52 | 1.76 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 268 | 68 | 79 | 44 | 0.38 | 0.80 | 6.06 | 1.53 | 1.78 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 273 | 69 | 80 | 44 | 0.38 | 0.81 | 6.18 | 1.56 | 1.81 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 332 | 84 | 97 | 54 | 0.47 | 0.99 | 6.10 | 1.54 | 1.79 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 338 | 85 | 99 | 55 | 0.46 | 1.01 | 6.19 | 1.56 | 1.81 |

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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 493 | 124 | 144 | 81 | 0.69 | 1.47 | 6.10 | 1.54 | 1.79 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 504 | 127 | 148 | 82 | 0.69 | 1.50 | 6.14 | 1.55 | 1.80 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 594 | 150 | 174 | 98 | 0.84 | 1.77 | 6.04 | 1.52 | 1.77 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 611 | 154 | 179 | 101 | 0.85 | 1.82 | 6.03 | 1.52 | 1.77 |

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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 (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 731 | 184 | 214 | 125 | 1.06 | 2.17 | 5.84 | 1.47 | 1.71 |

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|---|----------|-----|----------------------------------|----------------------------|---|--------------------------------|--|-------|
| TEST CONDITIONS: @220V4500RPM | | | ASHRAELBP32 Fan | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 752 | 189 | 220 | 129 | 1.08 | 2.24 | 5.82 | 1.47 | 1.71 |

E - PERFORMANCE - CURVES

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

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | | | | | | |
|----------------------------------|-----------------------|--------------------|-----|------------------|------------------|----------------|----------------------|-----------|-------|--|
| Evaporating temperature | Cooling capacity (Qe) | | | Input power (We) | Electric current | Mass flow rate | Efficiency EER & COP | | | |
| | +/- 5% | | | | | | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -40 (-40) | 118 | 30 | 35 | 19 | 0.32 | 0.35 | 6.03 | 1.52 | 1.77 | |
| -35 (-31) | 150 | 38 | 44 | 24 | 0.33 | 0.44 | 6.34 | 1.60 | 1.86 | |
| -30 (-22) | 186 | 47 | 55 | 27 | 0.35 | 0.55 | 6.91 | 1.74 | 2.02 | |
| -25 (-13) | 229 | 58 | 67 | 30 | 0.37 | 0.68 | 7.74 | 1.95 | 2.27 | |
| -20 (- 4) | 279 | 70 | 82 | 32 | 0.39 | 0.83 | 8.81 | 2.22 | 2.58 | |
| -15 (+ 5) | 338 | 85 | 99 | 34 | 0.41 | 1.01 | 10.11 | 2.55 | 2.96 | |
| -10 (+14) | 406 | 102 | 119 | 35 | 0.43 | 1.22 | 11.64 | 2.93 | 3.41 | |
| -5 (+23) | 486 | 122 | 142 | 36 | 0.43 | 1.47 | 13.38 | 3.37 | 3.92 | |
| 0 (+32) | 577 | 145 | 169 | 37 | 0.43 | 1.75 | 15.33 | 3.86 | 4.49 | |

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | | | | | | | (Condensing temperature 45°C (+113°F)) |
|----------------------------------|-----------------------|--------------------|-----|------------------|------------------|----------------|----------------------|-----------|-------|--|--|
| Evaporating temperature | Cooling capacity (Qe) | | | Input power (We) | Electric current | Mass flow rate | Efficiency EER & COP | | | | |
| | +/- 5% | | | | | | +/- 7% | | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | | |
| -40 (-40) | 106 | 27 | 31 | 21 | 0.30 | 0.31 | 5.22 | 1.32 | 1.53 | | |
| -35 (-31) | 136 | 34 | 40 | 25 | 0.32 | 0.40 | 5.45 | 1.37 | 1.60 | | |
| -30 (-22) | 172 | 43 | 50 | 29 | 0.35 | 0.51 | 5.86 | 1.48 | 1.72 | | |
| -25 (-13) | 213 | 54 | 62 | 33 | 0.39 | 0.63 | 6.45 | 1.63 | 1.89 | | |
| -20 (- 4) | 262 | 66 | 77 | 36 | 0.42 | 0.78 | 7.20 | 1.82 | 2.11 | | |
| -15 (+ 5) | 319 | 80 | 93 | 39 | 0.46 | 0.95 | 8.11 | 2.04 | 2.38 | | |
| -10 (+14) | 385 | 97 | 113 | 42 | 0.49 | 1.16 | 9.17 | 2.31 | 2.69 | | |
| -5 (+23) | 462 | 117 | 136 | 45 | 0.51 | 1.40 | 10.35 | 2.61 | 3.03 | | |
| 0 (+32) | 552 | 139 | 162 | 48 | 0.53 | 1.68 | 11.66 | 2.94 | 3.42 | | |

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | | | | | | | (Condensing temperature 55°C (+131°F)) |
|----------------------------------|-----------------------|--------------------|-----|------------------|------------------|----------------|----------------------|-----------|-------|--|--|
| Evaporating temperature | Cooling capacity (Qe) | | | Input power (We) | Electric current | Mass flow rate | Efficiency EER & COP | | | | |
| | +/- 5% | | | | | | +/- 7% | | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | | |
| -40 (-40) | 86 | 22 | 25 | 20 | 0.30 | 0.25 | 4.40 | 1.11 | 1.29 | | |
| -35 (-31) | 117 | 29 | 34 | 25 | 0.33 | 0.34 | 4.66 | 1.17 | 1.37 | | |
| -30 (-22) | 151 | 38 | 44 | 30 | 0.37 | 0.45 | 5.03 | 1.27 | 1.47 | | |
| -25 (-13) | 192 | 48 | 56 | 35 | 0.41 | 0.57 | 5.49 | 1.38 | 1.61 | | |
| -20 (- 4) | 240 | 61 | 70 | 39 | 0.46 | 0.72 | 6.03 | 1.52 | 1.77 | | |
| -15 (+ 5) | 296 | 75 | 87 | 44 | 0.51 | 0.89 | 6.65 | 1.68 | 1.95 | | |
| -10 (+14) | 362 | 91 | 106 | 49 | 0.55 | 1.09 | 7.34 | 1.85 | 2.15 | | |
| -5 (+23) | 437 | 110 | 128 | 54 | 0.59 | 1.32 | 8.08 | 2.04 | 2.37 | | |
| 0 (+32) | 525 | 132 | 154 | 60 | 0.62 | 1.60 | 8.87 | 2.24 | 2.60 | | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1200RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 60 | 15 | 18 | 17 | 0.32 | 0.18 | 3.39 | 0.85 | 0.99 |
| -35 | (-31) | 91 | 23 | 27 | 24 | 0.36 | 0.27 | 3.78 | 0.95 | 1.11 |
| -30 | (-22) | 126 | 32 | 37 | 30 | 0.40 | 0.37 | 4.21 | 1.06 | 1.23 |
| -25 | (-13) | 167 | 42 | 49 | 36 | 0.45 | 0.50 | 4.65 | 1.17 | 1.36 |
| -20 | (- 4) | 215 | 54 | 63 | 43 | 0.50 | 0.64 | 5.10 | 1.28 | 1.49 |
| -15 | (+ 5) | 270 | 68 | 79 | 50 | 0.56 | 0.81 | 5.54 | 1.40 | 1.62 |
| -10 | (+14) | 335 | 84 | 98 | 57 | 0.61 | 1.01 | 5.97 | 1.50 | 1.75 |
| -5 | (+23) | 411 | 103 | 120 | 64 | 0.66 | 1.24 | 6.38 | 1.61 | 1.87 |
| 0 | (+32) | 497 | 125 | 146 | 73 | 0.70 | 1.51 | 6.75 | 1.70 | 1.98 |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|---------------------------------------|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 153 | 39 | 45 | 26 | 0.39 | 0.45 | 5.86 | 1.48 | 1.72 |
| -35 | (-31) | 193 | 49 | 57 | 30 | 0.40 | 0.57 | 6.32 | 1.59 | 1.85 |
| -30 | (-22) | 240 | 61 | 70 | 35 | 0.42 | 0.71 | 6.95 | 1.75 | 2.04 |
| -25 | (-13) | 297 | 75 | 87 | 38 | 0.45 | 0.88 | 7.78 | 1.96 | 2.28 |
| -20 | (- 4) | 363 | 92 | 106 | 41 | 0.48 | 1.08 | 8.83 | 2.23 | 2.59 |
| -15 | (+ 5) | 442 | 111 | 129 | 44 | 0.51 | 1.32 | 10.12 | 2.55 | 2.97 |
| -10 | (+14) | 534 | 134 | 156 | 46 | 0.53 | 1.61 | 11.66 | 2.94 | 3.42 |
| -5 | (+23) | 640 | 161 | 188 | 48 | 0.54 | 1.94 | 13.48 | 3.40 | 3.95 |
| 0 | (+32) | 763 | 192 | 224 | 49 | 0.52 | 2.32 | 15.60 | 3.93 | 4.57 |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 135 | 34 | 40 | 27 | 0.38 | 0.40 | 5.03 | 1.27 | 1.47 |
| -35 | (-31) | 175 | 44 | 51 | 32 | 0.40 | 0.52 | 5.44 | 1.37 | 1.60 |
| -30 | (-22) | 222 | 56 | 65 | 37 | 0.44 | 0.66 | 5.96 | 1.50 | 1.75 |
| -25 | (-13) | 277 | 70 | 81 | 42 | 0.48 | 0.82 | 6.60 | 1.66 | 1.93 |
| -20 | (- 4) | 342 | 86 | 100 | 46 | 0.52 | 1.02 | 7.38 | 1.86 | 2.16 |
| -15 | (+ 5) | 418 | 105 | 123 | 50 | 0.56 | 1.25 | 8.32 | 2.10 | 2.44 |
| -10 | (+14) | 507 | 128 | 149 | 54 | 0.60 | 1.53 | 9.44 | 2.38 | 2.77 |
| -5 | (+23) | 610 | 154 | 179 | 57 | 0.61 | 1.85 | 10.77 | 2.71 | 3.15 |
| 0 | (+32) | 729 | 184 | 214 | 60 | 0.61 | 2.22 | 12.31 | 3.10 | 3.61 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|---------------------------------|--------------------|---------|----------------------------|--|--------------------------|--------------------------------|------|------|------|
| Evaporating temperature | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | | |
| | °C | (°F) | [Btu/h] | | | | [kcal/h] | [W] | [W] | [A] |
| -40 | (-40) | 111 | 28 | 33 | 26 | 0.36 | 0.33 | 4.32 | 1.09 | 1.27 |
| -35 | (-31) | 151 | 38 | 44 | 32 | 0.39 | 0.45 | 4.76 | 1.20 | 1.40 |
| -30 | (-22) | 198 | 50 | 58 | 38 | 0.44 | 0.59 | 5.24 | 1.32 | 1.53 |
| -25 | (-13) | 251 | 63 | 74 | 44 | 0.50 | 0.75 | 5.76 | 1.45 | 1.69 |
| -20 | (- 4) | 315 | 79 | 92 | 49 | 0.56 | 0.94 | 6.35 | 1.60 | 1.86 |
| -15 | (+ 5) | 388 | 98 | 114 | 55 | 0.62 | 1.16 | 7.02 | 1.77 | 2.06 |
| -10 | (+14) | 474 | 120 | 139 | 60 | 0.67 | 1.43 | 7.81 | 1.97 | 2.29 |
| -5 | (+23) | 574 | 145 | 168 | 66 | 0.70 | 1.74 | 8.72 | 2.20 | 2.55 |
| 0 | (+32) | 688 | 174 | 202 | 71 | 0.71 | 2.09 | 9.78 | 2.46 | 2.86 |

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|---------------------------------|--------------------|---------|----------------------------|--|--------------------------|--------------------------------|------|------|------|
| Evaporating temperature | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | | |
| | °C | (°F) | [Btu/h] | | | | [kcal/h] | [W] | [W] | [A] |
| -40 | (-40) | 81 | 20 | 24 | 23 | 0.32 | 0.24 | 3.51 | 0.88 | 1.03 |
| -35 | (-31) | 121 | 30 | 35 | 30 | 0.37 | 0.36 | 4.07 | 1.02 | 1.19 |
| -30 | (-22) | 166 | 42 | 49 | 37 | 0.44 | 0.49 | 4.58 | 1.15 | 1.34 |
| -25 | (-13) | 219 | 55 | 64 | 44 | 0.52 | 0.65 | 5.06 | 1.28 | 1.48 |
| -20 | (- 4) | 280 | 71 | 82 | 51 | 0.60 | 0.84 | 5.54 | 1.40 | 1.62 |
| -15 | (+ 5) | 352 | 89 | 103 | 59 | 0.67 | 1.05 | 6.03 | 1.52 | 1.77 |
| -10 | (+14) | 434 | 109 | 127 | 66 | 0.74 | 1.31 | 6.55 | 1.65 | 1.92 |
| -5 | (+23) | 530 | 134 | 155 | 74 | 0.80 | 1.60 | 7.13 | 1.80 | 2.09 |
| 0 | (+32) | 641 | 162 | 188 | 82 | 0.83 | 1.95 | 7.78 | 1.96 | 2.28 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|---------------------------------|--------------------|---------|----------------------------|---------------------------------------|--------------------------|--------------------------------|-------|------|------|
| Evaporating temperature | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | | |
| | °C | (°F) | [Btu/h] | | | | [kcal/h] | [W] | [W] | [A] |
| -40 | (-40) | 185 | 47 | 54 | 33 | 0.44 | 0.55 | 5.59 | 1.41 | 1.64 |
| -35 | (-31) | 236 | 59 | 69 | 38 | 0.47 | 0.70 | 6.20 | 1.56 | 1.82 |
| -30 | (-22) | 296 | 75 | 87 | 43 | 0.50 | 0.88 | 6.91 | 1.74 | 2.03 |
| -25 | (-13) | 367 | 92 | 108 | 47 | 0.54 | 1.09 | 7.78 | 1.96 | 2.28 |
| -20 | (- 4) | 451 | 114 | 132 | 51 | 0.58 | 1.35 | 8.83 | 2.22 | 2.59 |
| -15 | (+ 5) | 550 | 139 | 161 | 55 | 0.61 | 1.65 | 10.10 | 2.54 | 2.96 |
| -10 | (+14) | 665 | 168 | 195 | 58 | 0.63 | 2.00 | 11.62 | 2.93 | 3.41 |
| -5 | (+23) | 798 | 201 | 234 | 60 | 0.63 | 2.41 | 13.44 | 3.39 | 3.94 |
| 0 | (+32) | 950 | 240 | 278 | 61 | 0.61 | 2.89 | 15.58 | 3.93 | 4.57 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 161 | 41 | 47 | 34 | 0.42 | 0.48 | 4.84 | 1.22 | 1.42 |
| -35 | (-31) | 212 | 53 | 62 | 39 | 0.46 | 0.63 | 5.38 | 1.36 | 1.58 |
| -30 | (-22) | 271 | 68 | 79 | 45 | 0.51 | 0.80 | 5.97 | 1.50 | 1.75 |
| -25 | (-13) | 340 | 86 | 100 | 51 | 0.57 | 1.01 | 6.64 | 1.67 | 1.95 |
| -20 | (- 4) | 422 | 106 | 124 | 56 | 0.62 | 1.26 | 7.42 | 1.87 | 2.18 |
| -15 | (+ 5) | 518 | 131 | 152 | 62 | 0.67 | 1.55 | 8.36 | 2.11 | 2.45 |
| -10 | (+14) | 630 | 159 | 184 | 66 | 0.70 | 1.89 | 9.49 | 2.39 | 2.78 |
| -5 | (+23) | 758 | 191 | 222 | 70 | 0.72 | 2.29 | 10.84 | 2.73 | 3.18 |
| 0 | (+32) | 906 | 228 | 266 | 73 | 0.72 | 2.76 | 12.46 | 3.14 | 3.65 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 133 | 33 | 39 | 32 | 0.39 | 0.39 | 4.17 | 1.05 | 1.22 |
| -35 | (-31) | 183 | 46 | 54 | 39 | 0.45 | 0.54 | 4.74 | 1.19 | 1.39 |
| -30 | (-22) | 241 | 61 | 71 | 46 | 0.52 | 0.72 | 5.28 | 1.33 | 1.55 |
| -25 | (-13) | 309 | 78 | 91 | 53 | 0.59 | 0.92 | 5.84 | 1.47 | 1.71 |
| -20 | (- 4) | 389 | 98 | 114 | 60 | 0.66 | 1.16 | 6.45 | 1.63 | 1.89 |
| -15 | (+ 5) | 482 | 122 | 141 | 67 | 0.73 | 1.44 | 7.15 | 1.80 | 2.09 |
| -10 | (+14) | 590 | 149 | 173 | 74 | 0.78 | 1.78 | 7.96 | 2.01 | 2.33 |
| -5 | (+23) | 715 | 180 | 210 | 80 | 0.82 | 2.16 | 8.94 | 2.25 | 2.62 |
| 0 | (+32) | 859 | 216 | 252 | 85 | 0.84 | 2.61 | 10.10 | 2.55 | 2.96 |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 99 | 25 | 29 | 29 | 0.35 | 0.29 | 3.39 | 0.85 | 0.99 |
| -35 | (-31) | 149 | 38 | 44 | 36 | 0.42 | 0.44 | 4.06 | 1.02 | 1.19 |
| -30 | (-22) | 207 | 52 | 61 | 45 | 0.51 | 0.61 | 4.65 | 1.17 | 1.36 |
| -25 | (-13) | 274 | 69 | 80 | 53 | 0.60 | 0.81 | 5.19 | 1.31 | 1.52 |
| -20 | (- 4) | 352 | 89 | 103 | 62 | 0.69 | 1.05 | 5.71 | 1.44 | 1.67 |
| -15 | (+ 5) | 442 | 112 | 130 | 71 | 0.78 | 1.32 | 6.25 | 1.57 | 1.83 |
| -10 | (+14) | 548 | 138 | 160 | 80 | 0.86 | 1.65 | 6.84 | 1.72 | 2.00 |
| -5 | (+23) | 669 | 169 | 196 | 89 | 0.92 | 2.02 | 7.52 | 1.90 | 2.20 |
| 0 | (+32) | 808 | 204 | 237 | 97 | 0.96 | 2.46 | 8.33 | 2.10 | 2.44 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|---------------------------------------|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 249 | 63 | 73 | 50 | 0.53 | 0.74 | 5.03 | 1.27 | 1.47 |
| -35 | (-31) | 331 | 83 | 97 | 57 | 0.60 | 0.98 | 5.75 | 1.45 | 1.68 |
| -30 | (-22) | 425 | 107 | 125 | 65 | 0.68 | 1.26 | 6.54 | 1.65 | 1.92 |
| -25 | (-13) | 536 | 135 | 157 | 72 | 0.76 | 1.59 | 7.45 | 1.88 | 2.18 |
| -20 | (- 4) | 665 | 168 | 195 | 78 | 0.83 | 1.98 | 8.51 | 2.14 | 2.49 |
| -15 | (+ 5) | 815 | 205 | 239 | 84 | 0.88 | 2.44 | 9.75 | 2.46 | 2.86 |
| -10 | (+14) | 989 | 249 | 290 | 89 | 0.91 | 2.98 | 11.22 | 2.83 | 3.29 |
| -5 | (+23) | 1188 | 299 | 348 | 92 | 0.90 | 3.59 | 12.94 | 3.26 | 3.79 |
| 0 | (+32) | 1416 | 357 | 415 | 94 | 0.85 | 4.30 | 14.96 | 3.77 | 4.38 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 227 | 57 | 66 | 51 | 0.56 | 0.67 | 4.45 | 1.12 | 1.30 |
| -35 | (-31) | 303 | 76 | 89 | 59 | 0.63 | 0.90 | 5.10 | 1.29 | 1.50 |
| -30 | (-22) | 393 | 99 | 115 | 68 | 0.72 | 1.17 | 5.78 | 1.46 | 1.69 |
| -25 | (-13) | 500 | 126 | 146 | 76 | 0.81 | 1.49 | 6.52 | 1.64 | 1.91 |
| -20 | (- 4) | 625 | 157 | 183 | 84 | 0.89 | 1.86 | 7.35 | 1.85 | 2.15 |
| -15 | (+ 5) | 771 | 194 | 226 | 92 | 0.96 | 2.31 | 8.31 | 2.09 | 2.44 |
| -10 | (+14) | 940 | 237 | 276 | 99 | 1.01 | 2.83 | 9.45 | 2.38 | 2.77 |
| -5 | (+23) | 1136 | 286 | 333 | 106 | 1.03 | 3.43 | 10.79 | 2.72 | 3.16 |
| 0 | (+32) | 1360 | 343 | 398 | 110 | 1.02 | 4.13 | 12.37 | 3.12 | 3.62 |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 195 | 49 | 57 | 50 | 0.54 | 0.58 | 3.92 | 0.99 | 1.15 |
| -35 | (-31) | 268 | 67 | 78 | 59 | 0.62 | 0.79 | 4.57 | 1.15 | 1.34 |
| -30 | (-22) | 354 | 89 | 104 | 68 | 0.71 | 1.05 | 5.18 | 1.31 | 1.52 |
| -25 | (-13) | 456 | 115 | 134 | 78 | 0.81 | 1.36 | 5.81 | 1.46 | 1.70 |
| -20 | (- 4) | 577 | 145 | 169 | 89 | 0.92 | 1.72 | 6.48 | 1.63 | 1.90 |
| -15 | (+ 5) | 719 | 181 | 211 | 99 | 1.02 | 2.15 | 7.22 | 1.82 | 2.12 |
| -10 | (+14) | 885 | 223 | 259 | 109 | 1.10 | 2.66 | 8.08 | 2.04 | 2.37 |
| -5 | (+23) | 1077 | 271 | 316 | 118 | 1.16 | 3.26 | 9.10 | 2.29 | 2.67 |
| 0 | (+32) | 1297 | 327 | 380 | 126 | 1.18 | 3.94 | 10.30 | 2.60 | 3.02 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 156 | 39 | 46 | 46 | 0.48 | 0.46 | 3.32 | 0.84 | 0.97 |
| -35 | (-31) | 224 | 56 | 66 | 56 | 0.57 | 0.66 | 4.02 | 1.01 | 1.18 |
| -30 | (-22) | 306 | 77 | 90 | 67 | 0.68 | 0.91 | 4.64 | 1.17 | 1.36 |
| -25 | (-13) | 405 | 102 | 119 | 79 | 0.80 | 1.20 | 5.21 | 1.31 | 1.53 |
| -20 | (- 4) | 522 | 131 | 153 | 91 | 0.93 | 1.56 | 5.77 | 1.46 | 1.69 |
| -15 | (+ 5) | 660 | 166 | 193 | 104 | 1.06 | 1.98 | 6.36 | 1.60 | 1.86 |
| -10 | (+14) | 822 | 207 | 241 | 117 | 1.18 | 2.47 | 7.01 | 1.77 | 2.05 |
| -5 | (+23) | 1011 | 255 | 296 | 130 | 1.28 | 3.06 | 7.76 | 1.96 | 2.27 |
| 0 | (+32) | 1228 | 309 | 360 | 142 | 1.35 | 3.73 | 8.64 | 2.18 | 2.53 |

| TEST CONDITIONS: @220V3600RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|---------------------------------------|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 306 | 77 | 90 | 63 | 0.62 | 0.90 | 4.85 | 1.22 | 1.42 |
| -35 | (-31) | 399 | 101 | 117 | 72 | 0.68 | 1.18 | 5.53 | 1.39 | 1.62 |
| -30 | (-22) | 508 | 128 | 149 | 80 | 0.76 | 1.51 | 6.29 | 1.59 | 1.84 |
| -25 | (-13) | 636 | 160 | 186 | 89 | 0.86 | 1.89 | 7.18 | 1.81 | 2.10 |
| -20 | (- 4) | 788 | 199 | 231 | 96 | 0.96 | 2.35 | 8.21 | 2.07 | 2.41 |
| -15 | (+ 5) | 968 | 244 | 284 | 103 | 1.04 | 2.90 | 9.42 | 2.37 | 2.76 |
| -10 | (+14) | 1178 | 297 | 345 | 109 | 1.10 | 3.55 | 10.86 | 2.74 | 3.18 |
| -5 | (+23) | 1424 | 359 | 417 | 114 | 1.12 | 4.31 | 12.54 | 3.16 | 3.67 |
| 0 | (+32) | 1708 | 430 | 500 | 117 | 1.08 | 5.19 | 14.50 | 3.65 | 4.25 |

| TEST CONDITIONS: @220V3600RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 274 | 69 | 80 | 64 | 0.66 | 0.81 | 4.33 | 1.09 | 1.27 |
| -35 | (-31) | 366 | 92 | 107 | 74 | 0.73 | 1.08 | 4.97 | 1.25 | 1.46 |
| -30 | (-22) | 472 | 119 | 138 | 84 | 0.82 | 1.40 | 5.64 | 1.42 | 1.65 |
| -25 | (-13) | 597 | 151 | 175 | 93 | 0.93 | 1.78 | 6.38 | 1.61 | 1.87 |
| -20 | (- 4) | 745 | 188 | 218 | 103 | 1.03 | 2.22 | 7.21 | 1.82 | 2.11 |
| -15 | (+ 5) | 918 | 231 | 269 | 112 | 1.13 | 2.75 | 8.18 | 2.06 | 2.40 |
| -10 | (+14) | 1121 | 282 | 328 | 120 | 1.20 | 3.37 | 9.31 | 2.35 | 2.73 |
| -5 | (+23) | 1357 | 342 | 398 | 128 | 1.23 | 4.10 | 10.64 | 2.68 | 3.12 |
| 0 | (+32) | 1631 | 411 | 478 | 134 | 1.21 | 4.96 | 12.20 | 3.07 | 3.57 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V3600RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 231 | 58 | 68 | 61 | 0.65 | 0.68 | 3.79 | 0.95 | 1.11 |
| -35 | (-31) | 323 | 81 | 95 | 73 | 0.73 | 0.96 | 4.44 | 1.12 | 1.30 |
| -30 | (-22) | 428 | 108 | 125 | 84 | 0.84 | 1.27 | 5.07 | 1.28 | 1.49 |
| -25 | (-13) | 550 | 139 | 161 | 96 | 0.96 | 1.63 | 5.72 | 1.44 | 1.67 |
| -20 | (- 4) | 692 | 174 | 203 | 108 | 1.09 | 2.07 | 6.40 | 1.61 | 1.88 |
| -15 | (+ 5) | 860 | 217 | 252 | 119 | 1.21 | 2.57 | 7.17 | 1.81 | 2.10 |
| -10 | (+14) | 1055 | 266 | 309 | 130 | 1.30 | 3.17 | 8.06 | 2.03 | 2.36 |
| -5 | (+23) | 1282 | 323 | 376 | 141 | 1.35 | 3.88 | 9.08 | 2.29 | 2.66 |
| 0 | (+32) | 1546 | 389 | 453 | 151 | 1.35 | 4.70 | 10.29 | 2.59 | 3.01 |

| TEST CONDITIONS: @220V3600RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 180 | 45 | 53 | 56 | 0.57 | 0.53 | 3.15 | 0.79 | 0.92 |
| -35 | (-31) | 271 | 68 | 79 | 70 | 0.68 | 0.80 | 3.87 | 0.97 | 1.13 |
| -30 | (-22) | 374 | 94 | 110 | 83 | 0.82 | 1.11 | 4.51 | 1.14 | 1.32 |
| -25 | (-13) | 493 | 124 | 144 | 97 | 0.97 | 1.47 | 5.11 | 1.29 | 1.50 |
| -20 | (- 4) | 631 | 159 | 185 | 111 | 1.13 | 1.88 | 5.71 | 1.44 | 1.67 |
| -15 | (+ 5) | 793 | 200 | 232 | 126 | 1.28 | 2.37 | 6.33 | 1.60 | 1.85 |
| -10 | (+14) | 981 | 247 | 287 | 140 | 1.40 | 2.95 | 7.01 | 1.77 | 2.06 |
| -5 | (+23) | 1199 | 302 | 351 | 153 | 1.49 | 3.62 | 7.79 | 1.96 | 2.28 |
| 0 | (+32) | 1452 | 366 | 426 | 167 | 1.52 | 4.41 | 8.70 | 2.19 | 2.55 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|---------------------------------------|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 372 | 94 | 109 | 81 | 0.78 | 1.10 | 4.57 | 1.15 | 1.34 |
| -35 | (-31) | 486 | 122 | 142 | 92 | 0.86 | 1.44 | 5.29 | 1.33 | 1.55 |
| -30 | (-22) | 625 | 157 | 183 | 103 | 0.97 | 1.85 | 6.04 | 1.52 | 1.77 |
| -25 | (-13) | 789 | 199 | 231 | 114 | 1.09 | 2.35 | 6.86 | 1.73 | 2.01 |
| -20 | (- 4) | 978 | 247 | 287 | 125 | 1.21 | 2.92 | 7.81 | 1.97 | 2.29 |
| -15 | (+ 5) | 1192 | 300 | 349 | 134 | 1.31 | 3.57 | 8.93 | 2.25 | 2.62 |
| -10 | (+14) | 1429 | 360 | 419 | 141 | 1.38 | 4.30 | 10.25 | 2.58 | 3.00 |
| -5 | (+23) | 1689 | 426 | 495 | 144 | 1.40 | 5.11 | 11.83 | 2.98 | 3.47 |
| 0 | (+32) | 1972 | 497 | 578 | 143 | 1.36 | 6.00 | 13.71 | 3.45 | 4.02 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 330 | 83 | 97 | 80 | 0.82 | 0.97 | 4.12 | 1.04 | 1.21 |
| -35 | (-31) | 441 | 111 | 129 | 93 | 0.91 | 1.31 | 4.79 | 1.21 | 1.40 |
| -30 | (-22) | 577 | 146 | 169 | 106 | 1.02 | 1.71 | 5.46 | 1.37 | 1.60 |
| -25 | (-13) | 737 | 186 | 216 | 119 | 1.16 | 2.19 | 6.15 | 1.55 | 1.80 |
| -20 | (- 4) | 920 | 232 | 270 | 132 | 1.29 | 2.75 | 6.92 | 1.74 | 2.03 |
| -15 | (+ 5) | 1126 | 284 | 330 | 144 | 1.40 | 3.37 | 7.81 | 1.97 | 2.29 |
| -10 | (+14) | 1355 | 341 | 397 | 153 | 1.49 | 4.08 | 8.86 | 2.23 | 2.60 |
| -5 | (+23) | 1606 | 405 | 470 | 159 | 1.53 | 4.86 | 10.12 | 2.55 | 2.96 |
| 0 | (+32) | 1878 | 473 | 550 | 162 | 1.50 | 5.71 | 11.63 | 2.93 | 3.41 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 273 | 69 | 80 | 76 | 0.79 | 0.81 | 3.58 | 0.90 | 1.05 |
| -35 | (-31) | 384 | 97 | 112 | 90 | 0.89 | 1.14 | 4.28 | 1.08 | 1.25 |
| -30 | (-22) | 517 | 130 | 151 | 106 | 1.03 | 1.53 | 4.92 | 1.24 | 1.44 |
| -25 | (-13) | 673 | 170 | 197 | 122 | 1.18 | 2.00 | 5.54 | 1.40 | 1.62 |
| -20 | (- 4) | 851 | 214 | 249 | 137 | 1.34 | 2.54 | 6.19 | 1.56 | 1.81 |
| -15 | (+ 5) | 1050 | 265 | 308 | 151 | 1.48 | 3.15 | 6.91 | 1.74 | 2.02 |
| -10 | (+14) | 1271 | 320 | 372 | 163 | 1.59 | 3.82 | 7.75 | 1.95 | 2.27 |
| -5 | (+23) | 1513 | 381 | 443 | 173 | 1.65 | 4.57 | 8.75 | 2.20 | 2.56 |
| 0 | (+32) | 1774 | 447 | 520 | 179 | 1.66 | 5.39 | 9.95 | 2.51 | 2.92 |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 65°C (+149°F)) | | | | | |
|----------------------------------|-------|---------------------------------|----------|-----|--|----------------------------|--------------------------|--------------------------------|-----------|-------|
| Evaporating temperature | | Cooling capacity (Qe) +/- 5% | | | Input power (We) +/- 5% | Electric current +/- 5% | Mass flow rate +/- 5% | Efficiency EER & COP +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 203 | 51 | 59 | 69 | 0.70 | 0.60 | 2.89 | 0.73 | 0.85 |
| -35 | (-31) | 313 | 79 | 92 | 86 | 0.83 | 0.93 | 3.67 | 0.92 | 1.08 |
| -30 | (-22) | 444 | 112 | 130 | 103 | 0.99 | 1.32 | 4.34 | 1.09 | 1.27 |
| -25 | (-13) | 596 | 150 | 175 | 121 | 1.17 | 1.77 | 4.95 | 1.25 | 1.45 |
| -20 | (- 4) | 770 | 194 | 226 | 139 | 1.36 | 2.30 | 5.54 | 1.40 | 1.62 |
| -15 | (+ 5) | 963 | 243 | 282 | 156 | 1.53 | 2.88 | 6.15 | 1.55 | 1.80 |
| -10 | (+14) | 1177 | 297 | 345 | 172 | 1.68 | 3.54 | 6.84 | 1.72 | 2.00 |
| -5 | (+23) | 1410 | 355 | 413 | 184 | 1.78 | 4.26 | 7.64 | 1.92 | 2.24 |
| 0 | (+32) | 1662 | 419 | 487 | 193 | 1.83 | 5.05 | 8.59 | 2.17 | 2.52 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-----------------------------|------|--------------------------|
| 1 Base plate | Universal EUEM | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 40° up + 0° to Back | | |
| 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 | | |