

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES A7H |
| Nominal Voltage/Frequency | 230 V 46-133 Hz |
| Engineering Number | 513907192 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|-----------------------------------|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-134a | | |
| 3 Nominal voltage and frequency | 230 / 46-133 | [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) | - | - | - |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing temperature | | | |
| 9.1 Operating | 14.2 | [kgf/cm ²] (202 psig) | / °C - °F |
| 9.2 Peak | 15.9 | [kgf/cm ²] (226 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|---------------|----------------------------------|
| 1 Commercial designation | | [hp] |
| 2 Displacement | 7.15 | [cm ³] (0.436 cu.in) |
| 2.1 Bore [mm] | 22.500 | |
| 2.2 Stroke [mm] | 18.000 | |
| 3 Lubricant charge | 190 | [ml] (6.42 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ESTER / ISO10 | |
| 4 Weight (with oil charge) | 6.6 | [kg] (14.55 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|--|----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 46-133 Hz 3~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | VCC3 1156 XXXXX/VES 2456 XX X X | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | VCC31156XXXXX | |
| 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 (46/133 Hz) | 2.10/2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (46/133 Hz) | 2.10/2.10 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (46/133 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC - UL | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V1400RPM | | | 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] |
| 332 | 84 | 97 | 59 | 0.87 | 1.89 | 5.63 | 1.42 | 1.65 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V1600RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 363 | 91 | 106 | 63 | 0.93 | 2.06 | 5.76 | 1.45 | 1.69 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V2000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 457 | 115 | 134 | 80 | 1.11 | 2.60 | 5.71 | 1.44 | 1.67 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V3000RPM | | | ASHRAELBP32 Static | | Evaporating temperature (Condensing temperature) | | -23.3°C (-9.94°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 680 | 171 | 199 | 120 | 1.64 | 3.86 | 5.67 | 1.43 | 1.66 |

| | | | | | | | | |
|---|----------|-----|-------------------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @115V4000RPM | | | 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] |
| 849 | 214 | 249 | 155 | 2.07 | 4.82 | 5.48 | 1.38 | 1.61 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V1400RPM | | 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) | 193 | 49 | 56 | 33 | 0.49 | 1.09 | 5.84 | 1.47 | 1.71 | |
| -30 (-22) | 264 | 67 | 77 | 40 | 0.58 | 1.50 | 6.56 | 1.65 | 1.92 | |
| -25 (-13) | 356 | 90 | 104 | 48 | 0.68 | 2.02 | 7.44 | 1.87 | 2.18 | |
| -20 (- 4) | 471 | 119 | 138 | 56 | 0.80 | 2.68 | 8.47 | 2.13 | 2.48 | |
| -15 (+ 5) | 615 | 155 | 180 | 64 | 0.92 | 3.51 | 9.67 | 2.44 | 2.83 | |
| -10 (+14) | 791 | 199 | 232 | 71 | 1.03 | 4.53 | 11.07 | 2.79 | 3.24 | |

| TEST CONDITIONS: @115V1400RPM | | 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) | 167 | 42 | 49 | 34 | 0.51 | 0.94 | 4.97 | 1.25 | 1.46 | |
| -30 (-22) | 239 | 60 | 70 | 43 | 0.62 | 1.35 | 5.61 | 1.41 | 1.65 | |
| -25 (-13) | 330 | 83 | 97 | 52 | 0.75 | 1.87 | 6.32 | 1.59 | 1.85 | |
| -20 (- 4) | 443 | 112 | 130 | 62 | 0.89 | 2.52 | 7.10 | 1.79 | 2.08 | |
| -15 (+ 5) | 583 | 147 | 171 | 73 | 1.04 | 3.33 | 7.98 | 2.01 | 2.34 | |
| -10 (+14) | 754 | 190 | 221 | 84 | 1.17 | 4.32 | 8.96 | 2.26 | 2.63 | |

| TEST CONDITIONS: @115V1400RPM | | 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 | 33 | 0.49 | 0.78 | 4.17 | 1.05 | 1.22 | |
| -30 (-22) | 210 | 53 | 61 | 43 | 0.63 | 1.19 | 4.83 | 1.22 | 1.41 | |
| -25 (-13) | 299 | 75 | 88 | 55 | 0.80 | 1.70 | 5.47 | 1.38 | 1.60 | |
| -20 (- 4) | 409 | 103 | 120 | 67 | 0.97 | 2.33 | 6.10 | 1.54 | 1.79 | |
| -15 (+ 5) | 544 | 137 | 160 | 81 | 1.14 | 3.11 | 6.75 | 1.70 | 1.98 | |
| -10 (+14) | 709 | 179 | 208 | 96 | 1.31 | 4.06 | 7.42 | 1.87 | 2.17 | |

| TEST CONDITIONS: @115V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|--|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 190 | 48 | 56 | 37 | 0.55 | 1.08 | 5.14 | 1.29 | 1.50 | |
| -30 (-22) | 260 | 65 | 76 | 45 | 0.65 | 1.47 | 5.80 | 1.46 | 1.70 | |
| -25 (-13) | 363 | 91 | 106 | 53 | 0.76 | 2.06 | 6.79 | 1.71 | 1.99 | |
| -20 (- 4) | 497 | 125 | 146 | 61 | 0.88 | 2.83 | 8.03 | 2.02 | 2.35 | |
| -15 (+ 5) | 662 | 167 | 194 | 70 | 0.99 | 3.78 | 9.47 | 2.39 | 2.77 | |
| -10 (+14) | 854 | 215 | 250 | 77 | 1.10 | 4.89 | 11.04 | 2.78 | 3.23 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V1600RPM | | 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) | 193 | 49 | 57 | 38 | 0.56 | 1.09 | 5.07 | 1.28 | 1.49 |
| -30 | (-22) | 258 | 65 | 75 | 47 | 0.69 | 1.46 | 5.55 | 1.40 | 1.63 |
| -25 | (-13) | 353 | 89 | 103 | 56 | 0.82 | 2.00 | 6.26 | 1.58 | 1.83 |
| -20 | (- 4) | 477 | 120 | 140 | 67 | 0.96 | 2.72 | 7.14 | 1.80 | 2.09 |
| -15 | (+ 5) | 628 | 158 | 184 | 77 | 1.09 | 3.59 | 8.14 | 2.05 | 2.38 |
| -10 | (+14) | 805 | 203 | 236 | 88 | 1.22 | 4.61 | 9.18 | 2.31 | 2.69 |

| TEST CONDITIONS: @115V1600RPM | | 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) | 158 | 40 | 46 | 37 | 0.52 | 0.89 | 4.23 | 1.06 | 1.24 |
| -30 | (-22) | 225 | 57 | 66 | 48 | 0.67 | 1.28 | 4.75 | 1.20 | 1.39 |
| -25 | (-13) | 320 | 81 | 94 | 59 | 0.83 | 1.82 | 5.42 | 1.37 | 1.59 |
| -20 | (- 4) | 442 | 111 | 129 | 72 | 0.99 | 2.52 | 6.17 | 1.56 | 1.81 |
| -15 | (+ 5) | 588 | 148 | 172 | 85 | 1.16 | 3.36 | 6.95 | 1.75 | 2.04 |
| -10 | (+14) | 757 | 191 | 222 | 99 | 1.32 | 4.34 | 7.70 | 1.94 | 2.26 |

| TEST CONDITIONS: @115V2000RPM | | 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) | 276 | 69 | 81 | 49 | 0.67 | 1.56 | 5.67 | 1.43 | 1.66 |
| -30 | (-22) | 377 | 95 | 111 | 59 | 0.80 | 2.14 | 6.40 | 1.61 | 1.87 |
| -25 | (-13) | 502 | 127 | 147 | 69 | 0.93 | 2.85 | 7.24 | 1.83 | 2.12 |
| -20 | (- 4) | 656 | 165 | 192 | 80 | 1.06 | 3.73 | 8.22 | 2.07 | 2.41 |
| -15 | (+ 5) | 842 | 212 | 247 | 90 | 1.19 | 4.80 | 9.34 | 2.35 | 2.74 |
| -10 | (+14) | 1064 | 268 | 312 | 100 | 1.31 | 6.10 | 10.62 | 2.68 | 3.11 |

| TEST CONDITIONS: @115V2000RPM | | 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) | 242 | 61 | 71 | 49 | 0.67 | 1.37 | 4.94 | 1.25 | 1.45 |
| -30 | (-22) | 340 | 86 | 100 | 61 | 0.82 | 1.93 | 5.58 | 1.41 | 1.64 |
| -25 | (-13) | 464 | 117 | 136 | 73 | 0.98 | 2.63 | 6.29 | 1.59 | 1.84 |
| -20 | (- 4) | 616 | 155 | 180 | 87 | 1.15 | 3.50 | 7.09 | 1.79 | 2.08 |
| -15 | (+ 5) | 802 | 202 | 235 | 100 | 1.31 | 4.58 | 7.99 | 2.01 | 2.34 |
| -10 | (+14) | 1025 | 258 | 300 | 114 | 1.48 | 5.88 | 9.00 | 2.27 | 2.64 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V2000RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | | | | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 199 | 50 | 58 | 47 | 0.64 | 1.13 | 4.21 | 1.06 | 1.24 | |
| -30 (-22) | 289 | 73 | 85 | 60 | 0.81 | 1.64 | 4.82 | 1.21 | 1.41 | |
| -25 (-13) | 404 | 102 | 118 | 75 | 0.99 | 2.29 | 5.45 | 1.37 | 1.60 | |
| -20 (- 4) | 550 | 139 | 161 | 90 | 1.19 | 3.13 | 6.12 | 1.54 | 1.79 | |
| -15 (+ 5) | 730 | 184 | 214 | 107 | 1.39 | 4.17 | 6.85 | 1.73 | 2.01 | |
| -10 (+14) | 949 | 239 | 278 | 124 | 1.59 | 5.44 | 7.65 | 1.93 | 2.24 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @115V3000RPM | | 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) | 405 | 102 | 119 | 75 | 1.00 | 2.29 | 5.40 | 1.36 | 1.58 | |
| -30 (-22) | 561 | 141 | 164 | 90 | 1.19 | 3.18 | 6.21 | 1.56 | 1.82 | |
| -25 (-13) | 747 | 188 | 219 | 107 | 1.39 | 4.24 | 7.02 | 1.77 | 2.06 | |
| -20 (- 4) | 974 | 245 | 285 | 124 | 1.59 | 5.54 | 7.88 | 1.99 | 2.31 | |
| -15 (+ 5) | 1248 | 314 | 366 | 142 | 1.80 | 7.12 | 8.81 | 2.22 | 2.58 | |
| -10 (+14) | 1579 | 398 | 463 | 160 | 2.03 | 9.05 | 9.86 | 2.48 | 2.89 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V3000RPM | | 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) | 352 | 89 | 103 | 74 | 0.99 | 1.99 | 4.74 | 1.20 | 1.39 | |
| -30 (-22) | 506 | 127 | 148 | 93 | 1.22 | 2.87 | 5.46 | 1.38 | 1.60 | |
| -25 (-13) | 689 | 174 | 202 | 112 | 1.45 | 3.91 | 6.16 | 1.55 | 1.80 | |
| -20 (- 4) | 909 | 229 | 266 | 132 | 1.69 | 5.17 | 6.88 | 1.73 | 2.02 | |
| -15 (+ 5) | 1175 | 296 | 344 | 153 | 1.94 | 6.71 | 7.66 | 1.93 | 2.24 | |
| -10 (+14) | 1494 | 376 | 438 | 175 | 2.19 | 8.56 | 8.52 | 2.15 | 2.50 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @115V3000RPM | | 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) | 298 | 75 | 87 | 71 | 0.95 | 1.69 | 4.21 | 1.06 | 1.23 | |
| -30 (-22) | 453 | 114 | 133 | 92 | 1.22 | 2.57 | 4.88 | 1.23 | 1.43 | |
| -25 (-13) | 634 | 160 | 186 | 115 | 1.49 | 3.60 | 5.51 | 1.39 | 1.62 | |
| -20 (- 4) | 849 | 214 | 249 | 138 | 1.77 | 4.83 | 6.14 | 1.55 | 1.80 | |
| -15 (+ 5) | 1107 | 279 | 324 | 163 | 2.06 | 6.32 | 6.81 | 1.72 | 1.99 | |
| -10 (+14) | 1415 | 357 | 415 | 188 | 2.35 | 8.11 | 7.54 | 1.90 | 2.21 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V4000RPM | | 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) | 503 | 127 | 147 | 98 | 1.29 | 2.84 | 5.10 | 1.29 | 1.49 | |
| -30 (-22) | 694 | 175 | 203 | 118 | 1.53 | 3.93 | 5.88 | 1.48 | 1.72 | |
| -25 (-13) | 936 | 236 | 274 | 141 | 1.82 | 5.31 | 6.61 | 1.67 | 1.94 | |
| -20 (- 4) | 1227 | 309 | 360 | 167 | 2.12 | 6.98 | 7.35 | 1.85 | 2.15 | |
| -15 (+ 5) | 1567 | 395 | 459 | 193 | 2.43 | 8.94 | 8.14 | 2.05 | 2.38 | |
| -10 (+14) | 1953 | 492 | 572 | 217 | 2.71 | 11.19 | 9.01 | 2.27 | 2.64 | |

| TEST CONDITIONS: @115V4000RPM | | 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) | 436 | 110 | 128 | 96 | 1.26 | 2.47 | 4.56 | 1.15 | 1.34 | |
| -30 (-22) | 616 | 155 | 181 | 118 | 1.52 | 3.49 | 5.24 | 1.32 | 1.54 | |
| -25 (-13) | 845 | 213 | 248 | 144 | 1.84 | 4.80 | 5.88 | 1.48 | 1.72 | |
| -20 (- 4) | 1122 | 283 | 329 | 172 | 2.17 | 6.38 | 6.53 | 1.65 | 1.91 | |
| -15 (+ 5) | 1445 | 364 | 423 | 200 | 2.50 | 8.25 | 7.23 | 1.82 | 2.12 | |
| -10 (+14) | 1813 | 457 | 531 | 226 | 2.81 | 10.39 | 8.02 | 2.02 | 2.35 | |

| TEST CONDITIONS: @115V4000RPM | | 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) | 371 | 93 | 109 | 91 | 1.20 | 2.10 | 4.10 | 1.03 | 1.20 | |
| -30 (-22) | 541 | 136 | 158 | 115 | 1.50 | 3.06 | 4.69 | 1.18 | 1.37 | |
| -25 (-13) | 758 | 191 | 222 | 144 | 1.84 | 4.30 | 5.25 | 1.32 | 1.54 | |
| -20 (- 4) | 1021 | 257 | 299 | 175 | 2.20 | 5.81 | 5.81 | 1.47 | 1.70 | |
| -15 (+ 5) | 1329 | 335 | 389 | 206 | 2.57 | 7.58 | 6.43 | 1.62 | 1.88 | |
| -10 (+14) | 1680 | 423 | 492 | 235 | 2.90 | 9.62 | 7.14 | 1.80 | 2.09 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard VES | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.1 +0.10/+0.00 | [mm] | (0.240" +0.004"/+0.000") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 45° up + 15° to Back | | |
| 3.2 DISCHARGE | 5.1 +0.10/+0.00 | [mm] | (0.201" +0.004"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted 47° up + 24° to Back | | |
| 3.3 PROCESS | 6 +0.08/-0.08 | [mm] | (0.236" +0.003"/-0.003") |
| 3.3.1 Material | Copper(OD) | | |
| 3.3.2 Shape | Slanted 47° up + 59° to Back | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |