

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES D5C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907025 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|--|-----------------------------------|-----------------------------------|--------------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 230 / 40-150 | [V / Hz] | |
| 4 Application type | Low-Medium Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -5°C | (-31°F to 23°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 | 187 to 255 V | 187 to 255 V |
| 8.2 LBP (43°C Ambient temperature) | Static | 187 to 255 V | 187 to 255 V |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing pressures/temperature | | | |
| 9.1 Operating (gauge) | 7.7 | [kgf/cm ²] (109 psig) | / °C - °F |
| 9.2 Peak (gauge) | 9.8 | [kgf/cm ²] (139 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation | 1/5 | [hp] |
| 2 Displacement | 5.19 | [cm ³] (0.317 cu.in) |
| 2.1 Bore [mm] | 21.000 | |
| 2.2 Stroke [mm] | 15.000 | |
| 3 Lubricant charge | 190 | [ml] (6.42 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 6.45 | [kg] (14.22 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|--|-----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 40-150 Hz 3 ~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | VES 2456 XX X X | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | INVERTER VES 2456X | |
| 6 Start winding resistance | 13.40 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 13.40 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (40/150 Hz) | 2.10 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (40/150 Hz) | 2.10 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (40/150 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CCC - VDE | |

D - PERFORMANCE - CHECK POINT DATA

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1300RPM | | 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) | 75 | 19 | 22 | 13 | 0.12 | 0.23 | 5.55 | 1.40 | 1.62 |
| -30 | (-22) | 98 | 25 | 29 | 15 | 0.14 | 0.31 | 6.43 | 1.62 | 1.88 |
| -25 | (-13) | 128 | 32 | 38 | 17 | 0.16 | 0.40 | 7.44 | 1.88 | 2.18 |
| -20 | (- 4) | 166 | 42 | 49 | 19 | 0.18 | 0.52 | 8.66 | 2.18 | 2.54 |
| -15 | (+ 5) | 214 | 54 | 63 | 21 | 0.19 | 0.67 | 10.15 | 2.56 | 2.97 |
| -10 | (+14) | 271 | 68 | 80 | 23 | 0.20 | 0.86 | 11.95 | 3.01 | 3.50 |
| -5 | (+23) | 341 | 86 | 100 | 24 | 0.21 | 1.08 | 14.15 | 3.57 | 4.15 |

| TEST CONDITIONS: @220V1300RPM | | 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) | 61 | 15 | 18 | 12 | 0.12 | 0.19 | 4.98 | 1.25 | 1.46 |
| -30 | (-22) | 86 | 22 | 25 | 15 | 0.14 | 0.27 | 5.81 | 1.46 | 1.70 |
| -25 | (-13) | 117 | 30 | 34 | 18 | 0.16 | 0.37 | 6.66 | 1.68 | 1.95 |
| -20 | (- 4) | 155 | 39 | 46 | 20 | 0.19 | 0.49 | 7.59 | 1.91 | 2.23 |
| -15 | (+ 5) | 202 | 51 | 59 | 23 | 0.21 | 0.63 | 8.67 | 2.18 | 2.54 |
| -10 | (+14) | 258 | 65 | 75 | 26 | 0.23 | 0.81 | 9.94 | 2.50 | 2.91 |
| -5 | (+23) | 325 | 82 | 95 | 28 | 0.24 | 1.03 | 11.48 | 2.89 | 3.36 |

| TEST CONDITIONS: @220V1300RPM | | 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) | 43 | 11 | 13 | 12 | 0.12 | 0.13 | 3.64 | 0.92 | 1.07 |
| -30 | (-22) | 71 | 18 | 21 | 15 | 0.14 | 0.22 | 4.70 | 1.18 | 1.38 |
| -25 | (-13) | 103 | 26 | 30 | 18 | 0.17 | 0.32 | 5.66 | 1.43 | 1.66 |
| -20 | (- 4) | 142 | 36 | 42 | 22 | 0.20 | 0.45 | 6.58 | 1.66 | 1.93 |
| -15 | (+ 5) | 188 | 47 | 55 | 25 | 0.22 | 0.59 | 7.51 | 1.89 | 2.20 |
| -10 | (+14) | 243 | 61 | 71 | 28 | 0.25 | 0.77 | 8.53 | 2.15 | 2.50 |
| -5 | (+23) | 308 | 78 | 90 | 32 | 0.27 | 0.97 | 9.69 | 2.44 | 2.84 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V1600RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|--|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 87 | 22 | 25 | 15 | 0.14 | 0.27 | 5.63 | 1.42 | 1.65 | |
| -30 (-22) | 117 | 30 | 34 | 18 | 0.17 | 0.37 | 6.45 | 1.63 | 1.89 | |
| -25 (-13) | 157 | 40 | 46 | 21 | 0.19 | 0.49 | 7.50 | 1.89 | 2.20 | |
| -20 (- 4) | 207 | 52 | 61 | 24 | 0.21 | 0.65 | 8.78 | 2.21 | 2.57 | |
| -15 (+ 5) | 268 | 68 | 79 | 26 | 0.23 | 0.84 | 10.33 | 2.60 | 3.03 | |
| -10 (+14) | 341 | 86 | 100 | 28 | 0.24 | 1.08 | 12.16 | 3.06 | 3.56 | |
| -5 (+23) | 427 | 108 | 125 | 30 | 0.25 | 1.35 | 14.31 | 3.61 | 4.19 | |

| 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] |
| -35 (-31) | 80 | 20 | 23 | 15 | 0.14 | 0.25 | 5.25 | 1.32 | 1.54 | |
| -30 (-22) | 108 | 27 | 32 | 18 | 0.17 | 0.34 | 5.91 | 1.49 | 1.73 | |
| -25 (-13) | 146 | 37 | 43 | 22 | 0.19 | 0.46 | 6.71 | 1.69 | 1.97 | |
| -20 (- 4) | 194 | 49 | 57 | 25 | 0.22 | 0.61 | 7.66 | 1.93 | 2.25 | |
| -15 (+ 5) | 252 | 64 | 74 | 29 | 0.25 | 0.79 | 8.80 | 2.22 | 2.58 | |
| -10 (+14) | 322 | 81 | 94 | 32 | 0.27 | 1.02 | 10.14 | 2.56 | 2.97 | |
| -5 (+23) | 404 | 102 | 118 | 35 | 0.29 | 1.28 | 11.71 | 2.95 | 3.43 | |

| 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] |
| -35 (-31) | 63 | 16 | 18 | 15 | 0.13 | 0.20 | 4.23 | 1.06 | 1.24 | |
| -30 (-22) | 91 | 23 | 27 | 18 | 0.16 | 0.28 | 4.97 | 1.25 | 1.46 | |
| -25 (-13) | 128 | 32 | 38 | 22 | 0.20 | 0.40 | 5.76 | 1.45 | 1.69 | |
| -20 (- 4) | 175 | 44 | 51 | 26 | 0.23 | 0.55 | 6.62 | 1.67 | 1.94 | |
| -15 (+ 5) | 233 | 59 | 68 | 31 | 0.26 | 0.73 | 7.58 | 1.91 | 2.22 | |
| -10 (+14) | 301 | 76 | 88 | 35 | 0.29 | 0.95 | 8.67 | 2.18 | 2.54 | |
| -5 (+23) | 382 | 96 | 112 | 39 | 0.32 | 1.21 | 9.90 | 2.49 | 2.90 | |

E - PERFORMANCE - CURVES

| 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] |
| -35 (-31) | 112 | 28 | 33 | 19 | 0.17 | 0.35 | 5.75 | 1.45 | 1.68 | |
| -30 (-22) | 149 | 38 | 44 | 23 | 0.20 | 0.47 | 6.56 | 1.65 | 1.92 | |
| -25 (-13) | 199 | 50 | 58 | 26 | 0.23 | 0.62 | 7.56 | 1.91 | 2.22 | |
| -20 (- 4) | 260 | 66 | 76 | 30 | 0.25 | 0.82 | 8.79 | 2.21 | 2.57 | |
| -15 (+ 5) | 336 | 85 | 98 | 33 | 0.27 | 1.06 | 10.26 | 2.59 | 3.01 | |
| -10 (+14) | 426 | 107 | 125 | 36 | 0.29 | 1.34 | 12.01 | 3.03 | 3.52 | |
| -5 (+23) | 532 | 134 | 156 | 38 | 0.31 | 1.68 | 14.06 | 3.54 | 4.12 | |

| 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] |
| -35 (-31) | 101 | 26 | 30 | 20 | 0.17 | 0.32 | 5.21 | 1.31 | 1.53 | |
| -30 (-22) | 138 | 35 | 41 | 23 | 0.21 | 0.43 | 5.93 | 1.49 | 1.74 | |
| -25 (-13) | 186 | 47 | 55 | 27 | 0.24 | 0.58 | 6.76 | 1.70 | 1.98 | |
| -20 (- 4) | 247 | 62 | 72 | 32 | 0.27 | 0.78 | 7.73 | 1.95 | 2.27 | |
| -15 (+ 5) | 321 | 81 | 94 | 36 | 0.30 | 1.01 | 8.87 | 2.23 | 2.60 | |
| -10 (+14) | 409 | 103 | 120 | 40 | 0.32 | 1.29 | 10.20 | 2.57 | 2.99 | |
| -5 (+23) | 512 | 129 | 150 | 44 | 0.35 | 1.62 | 11.75 | 2.96 | 3.44 | |

| TEST CONDITIONS: @220V2000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 85 | 21 | 25 | 19 | 0.17 | 0.26 | 4.39 | 1.11 | 1.29 | |
| -30 (-22) | 120 | 30 | 35 | 23 | 0.21 | 0.38 | 5.15 | 1.30 | 1.51 | |
| -25 (-13) | 166 | 42 | 49 | 28 | 0.24 | 0.52 | 5.94 | 1.50 | 1.74 | |
| -20 (- 4) | 224 | 56 | 66 | 33 | 0.28 | 0.70 | 6.78 | 1.71 | 1.99 | |
| -15 (+ 5) | 295 | 74 | 87 | 38 | 0.31 | 0.93 | 7.71 | 1.94 | 2.26 | |
| -10 (+14) | 381 | 96 | 112 | 43 | 0.35 | 1.20 | 8.76 | 2.21 | 2.57 | |
| -5 (+23) | 481 | 121 | 141 | 48 | 0.39 | 1.52 | 9.94 | 2.50 | 2.91 | |

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] |
| -35 (-31) | 167 | 42 | 49 | 30 | 0.26 | 0.52 | 5.54 | 1.40 | 1.62 | |
| -30 (-22) | 230 | 58 | 67 | 35 | 0.29 | 0.72 | 6.52 | 1.64 | 1.91 | |
| -25 (-13) | 310 | 78 | 91 | 41 | 0.34 | 0.97 | 7.57 | 1.91 | 2.22 | |
| -20 (- 4) | 408 | 103 | 120 | 47 | 0.38 | 1.28 | 8.73 | 2.20 | 2.56 | |
| -15 (+ 5) | 523 | 132 | 153 | 52 | 0.42 | 1.65 | 10.02 | 2.53 | 2.94 | |
| -10 (+14) | 655 | 165 | 192 | 57 | 0.45 | 2.07 | 11.50 | 2.90 | 3.37 | |
| -5 (+23) | 805 | 203 | 236 | 61 | 0.48 | 2.54 | 13.20 | 3.33 | 3.87 | |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 148 | 37 | 43 | 30 | 0.25 | 0.46 | 4.90 | 1.24 | 1.44 | |
| -30 (-22) | 207 | 52 | 61 | 36 | 0.30 | 0.65 | 5.79 | 1.46 | 1.70 | |
| -25 (-13) | 285 | 72 | 84 | 42 | 0.35 | 0.90 | 6.70 | 1.69 | 1.96 | |
| -20 (- 4) | 381 | 96 | 112 | 49 | 0.40 | 1.20 | 7.68 | 1.94 | 2.25 | |
| -15 (+ 5) | 495 | 125 | 145 | 56 | 0.45 | 1.56 | 8.77 | 2.21 | 2.57 | |
| -10 (+14) | 626 | 158 | 183 | 63 | 0.49 | 1.97 | 9.99 | 2.52 | 2.93 | |
| -5 (+23) | 775 | 195 | 227 | 68 | 0.53 | 2.45 | 11.39 | 2.87 | 3.34 | |

| TEST CONDITIONS: @220V3000RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 126 | 32 | 37 | 30 | 0.26 | 0.39 | 4.18 | 1.05 | 1.22 | |
| -30 (-22) | 181 | 46 | 53 | 36 | 0.31 | 0.57 | 5.02 | 1.26 | 1.47 | |
| -25 (-13) | 254 | 64 | 75 | 44 | 0.36 | 0.80 | 5.85 | 1.47 | 1.71 | |
| -20 (- 4) | 347 | 87 | 102 | 52 | 0.42 | 1.09 | 6.70 | 1.69 | 1.96 | |
| -15 (+ 5) | 457 | 115 | 134 | 60 | 0.47 | 1.44 | 7.62 | 1.92 | 2.23 | |
| -10 (+14) | 586 | 148 | 172 | 68 | 0.53 | 1.85 | 8.64 | 2.18 | 2.53 | |
| -5 (+23) | 734 | 185 | 215 | 75 | 0.58 | 2.32 | 9.80 | 2.47 | 2.87 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|--|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 258 | 65 | 76 | 50 | 0.39 | 0.81 | 5.19 | 1.31 | 1.52 | |
| -30 (-22) | 344 | 87 | 101 | 57 | 0.45 | 1.08 | 6.00 | 1.51 | 1.76 | |
| -25 (-13) | 452 | 114 | 132 | 66 | 0.51 | 1.42 | 6.89 | 1.74 | 2.02 | |
| -20 (- 4) | 583 | 147 | 171 | 74 | 0.57 | 1.83 | 7.88 | 1.99 | 2.31 | |
| -15 (+ 5) | 744 | 188 | 218 | 82 | 0.63 | 2.34 | 9.02 | 2.27 | 2.64 | |
| -10 (+14) | 939 | 237 | 275 | 91 | 0.69 | 2.96 | 10.31 | 2.60 | 3.02 | |
| -5 (+23) | 1170 | 295 | 343 | 99 | 0.75 | 3.70 | 11.80 | 2.97 | 3.46 | |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 228 | 58 | 67 | 49 | 0.39 | 0.71 | 4.67 | 1.18 | 1.37 | |
| -30 (-22) | 319 | 80 | 93 | 59 | 0.46 | 1.00 | 5.43 | 1.37 | 1.59 | |
| -25 (-13) | 427 | 108 | 125 | 69 | 0.54 | 1.34 | 6.24 | 1.57 | 1.83 | |
| -20 (- 4) | 557 | 140 | 163 | 79 | 0.61 | 1.75 | 7.11 | 1.79 | 2.08 | |
| -15 (+ 5) | 714 | 180 | 209 | 88 | 0.68 | 2.25 | 8.08 | 2.04 | 2.37 | |
| -10 (+14) | 902 | 227 | 264 | 98 | 0.75 | 2.85 | 9.17 | 2.31 | 2.69 | |
| -5 (+23) | 1125 | 284 | 330 | 108 | 0.82 | 3.56 | 10.41 | 2.62 | 3.05 | |

| TEST CONDITIONS: @220V4500RPM | | ASHRAE32 Static | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|----------------------------------|----------------------------|--------------------|----------|-----------------------------|---|-------------------------|---------------------------|----------|-----------|-------|
| Evaporating temperature | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | | |
| | °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 (-31) | 176 | 44 | 52 | 44 | 0.35 | 0.55 | 3.99 | 1.01 | 1.17 | |
| -30 (-22) | 272 | 69 | 80 | 56 | 0.45 | 0.85 | 4.79 | 1.21 | 1.40 | |
| -25 (-13) | 385 | 97 | 113 | 69 | 0.54 | 1.21 | 5.58 | 1.41 | 1.64 | |
| -20 (- 4) | 517 | 130 | 151 | 81 | 0.63 | 1.62 | 6.41 | 1.61 | 1.88 | |
| -15 (+ 5) | 673 | 170 | 197 | 93 | 0.71 | 2.12 | 7.28 | 1.84 | 2.13 | |
| -10 (+14) | 858 | 216 | 251 | 104 | 0.79 | 2.71 | 8.24 | 2.08 | 2.42 | |
| -5 (+23) | 1075 | 271 | 315 | 116 | 0.87 | 3.40 | 9.31 | 2.35 | 2.73 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard VES | | |
| 2 Tray holder | Yes | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 6.2 +0.05/+0.05 | [mm] | (0.244" +0.002"/+0.002") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Slanted 5° out + 63° up | | |
| 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 0° 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 | | |