

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | VES D9C |
| Nominal Voltage/Frequency | 230 V 40-150 Hz |
| Engineering Number | 513907011 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|--|-----------------------------------|-----------------------------------|--------------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 230 / 40-150 | [V / Hz] | |
| 4 Application type | Low Back Pressure | | |
| 4.1 Evaporating temperature range | -35°C to -10°C | (-31°F to 14°F) | |
| 5 Motor type | BPM | | |
| 6 Starting torque | LST - Low Starting Torque | | |
| 7 Expansion device | Capillary tube | | |
| 8 Compressor cooling | | Operating voltage range | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | Static | 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 | 9.04 | [cm ³] (0.552 cu.in) |
| 2.1 Bore [mm] | 24.000 | |
| 2.2 Stroke [mm] | 20.000 | |
| 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) | 6.79 | [kg] (14.97 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 | 9.60 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 9.60 | [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) | 138 | 35 | 40 | 22 | 0.17 | 0.43 | 6.23 | 1.57 | 1.83 | |
| -30 (-22) | 184 | 46 | 54 | 25 | 0.22 | 0.58 | 7.20 | 1.81 | 2.11 | |
| -25 (-13) | 240 | 61 | 70 | 29 | 0.25 | 0.75 | 8.25 | 2.08 | 2.42 | |
| -20 (- 4) | 310 | 78 | 91 | 33 | 0.27 | 0.97 | 9.43 | 2.38 | 2.76 | |
| -15 (+ 5) | 393 | 99 | 115 | 37 | 0.29 | 1.24 | 10.77 | 2.71 | 3.15 | |
| -10 (+14) | 491 | 124 | 144 | 40 | 0.31 | 1.55 | 12.30 | 3.10 | 3.60 | |

| 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) | 121 | 31 | 36 | 22 | 0.20 | 0.38 | 5.50 | 1.39 | 1.61 | |
| -30 (-22) | 168 | 42 | 49 | 27 | 0.23 | 0.53 | 6.27 | 1.58 | 1.84 | |
| -25 (-13) | 227 | 57 | 66 | 32 | 0.25 | 0.71 | 7.09 | 1.79 | 2.08 | |
| -20 (- 4) | 298 | 75 | 87 | 37 | 0.28 | 0.94 | 8.01 | 2.02 | 2.35 | |
| -15 (+ 5) | 384 | 97 | 113 | 42 | 0.31 | 1.21 | 9.05 | 2.28 | 2.65 | |
| -10 (+14) | 486 | 123 | 142 | 47 | 0.36 | 1.53 | 10.25 | 2.58 | 3.00 | |

| 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) | 106 | 27 | 31 | 23 | 0.18 | 0.33 | 4.53 | 1.14 | 1.33 | |
| -30 (-22) | 148 | 37 | 43 | 28 | 0.21 | 0.46 | 5.27 | 1.33 | 1.54 | |
| -25 (-13) | 203 | 51 | 59 | 34 | 0.25 | 0.64 | 6.03 | 1.52 | 1.77 | |
| -20 (- 4) | 271 | 68 | 80 | 40 | 0.30 | 0.85 | 6.84 | 1.72 | 2.01 | |
| -15 (+ 5) | 355 | 89 | 104 | 46 | 0.38 | 1.12 | 7.75 | 1.95 | 2.27 | |
| -10 (+14) | 455 | 115 | 133 | 52 | 0.48 | 1.44 | 8.79 | 2.22 | 2.58 | |

| 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) | 173 | 44 | 51 | 27 | 0.22 | 0.54 | 6.32 | 1.59 | 1.85 | |
| -30 (-22) | 230 | 58 | 68 | 32 | 0.27 | 0.72 | 7.18 | 1.81 | 2.11 | |
| -25 (-13) | 299 | 75 | 88 | 37 | 0.30 | 0.94 | 8.17 | 2.06 | 2.40 | |
| -20 (- 4) | 383 | 96 | 112 | 41 | 0.33 | 1.20 | 9.32 | 2.35 | 2.73 | |
| -15 (+ 5) | 484 | 122 | 142 | 46 | 0.36 | 1.52 | 10.64 | 2.68 | 3.12 | |
| -10 (+14) | 607 | 153 | 178 | 50 | 0.39 | 1.91 | 12.19 | 3.07 | 3.57 | |

E - PERFORMANCE - CURVES

| 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) | 152 | 38 | 45 | 28 | 0.23 | 0.48 | 5.62 | 1.42 | 1.65 |
| -30 | (-22) | 213 | 54 | 62 | 33 | 0.27 | 0.67 | 6.38 | 1.61 | 1.87 |
| -25 | (-13) | 285 | 72 | 84 | 39 | 0.30 | 0.89 | 7.20 | 1.81 | 2.11 |
| -20 | (- 4) | 373 | 94 | 109 | 46 | 0.34 | 1.17 | 8.12 | 2.05 | 2.38 |
| -15 | (+ 5) | 479 | 121 | 140 | 52 | 0.38 | 1.51 | 9.16 | 2.31 | 2.68 |
| -10 | (+14) | 607 | 153 | 178 | 58 | 0.44 | 1.91 | 10.37 | 2.61 | 3.04 |

| 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) | 136 | 34 | 40 | 28 | 0.22 | 0.43 | 4.72 | 1.19 | 1.38 |
| -30 | (-22) | 189 | 48 | 55 | 34 | 0.26 | 0.59 | 5.48 | 1.38 | 1.61 |
| -25 | (-13) | 254 | 64 | 74 | 41 | 0.31 | 0.80 | 6.25 | 1.57 | 1.83 |
| -20 | (- 4) | 334 | 84 | 98 | 48 | 0.36 | 1.05 | 7.05 | 1.78 | 2.06 |
| -15 | (+ 5) | 434 | 109 | 127 | 55 | 0.44 | 1.37 | 7.92 | 1.99 | 2.32 |
| -10 | (+14) | 557 | 140 | 163 | 63 | 0.52 | 1.76 | 8.89 | 2.24 | 2.60 |

| 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) | 215 | 54 | 63 | 34 | 0.27 | 0.67 | 6.25 | 1.57 | 1.83 |
| -30 | (-22) | 289 | 73 | 85 | 40 | 0.31 | 0.91 | 7.16 | 1.81 | 2.10 |
| -25 | (-13) | 378 | 95 | 111 | 46 | 0.36 | 1.19 | 8.15 | 2.05 | 2.39 |
| -20 | (- 4) | 486 | 122 | 142 | 53 | 0.41 | 1.53 | 9.25 | 2.33 | 2.71 |
| -15 | (+ 5) | 615 | 155 | 180 | 59 | 0.45 | 1.93 | 10.51 | 2.65 | 3.08 |
| -10 | (+14) | 767 | 193 | 225 | 64 | 0.50 | 2.42 | 11.98 | 3.02 | 3.51 |

| 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) | 198 | 50 | 58 | 36 | 0.28 | 0.62 | 5.57 | 1.40 | 1.63 |
| -30 | (-22) | 271 | 68 | 79 | 42 | 0.33 | 0.85 | 6.38 | 1.61 | 1.87 |
| -25 | (-13) | 358 | 90 | 105 | 50 | 0.38 | 1.12 | 7.20 | 1.82 | 2.11 |
| -20 | (- 4) | 464 | 117 | 136 | 57 | 0.44 | 1.46 | 8.10 | 2.04 | 2.37 |
| -15 | (+ 5) | 590 | 149 | 173 | 65 | 0.49 | 1.86 | 9.12 | 2.30 | 2.67 |
| -10 | (+14) | 739 | 186 | 217 | 72 | 0.54 | 2.33 | 10.29 | 2.59 | 3.02 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V2000RPM | | Static | | | | | | | | |
| Evaporating temperature | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | | |
| | +/- 5% | | | | | | +/- 7% | | | |
| °C (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] | |
| -35 (-31) | 173 | 44 | 51 | 36 | 0.27 | 0.54 | 4.82 | 1.22 | 1.41 | |
| -30 (-22) | 244 | 61 | 72 | 44 | 0.34 | 0.76 | 5.58 | 1.41 | 1.64 | |
| -25 (-13) | 330 | 83 | 97 | 52 | 0.40 | 1.04 | 6.33 | 1.59 | 1.85 | |
| -20 (- 4) | 434 | 109 | 127 | 61 | 0.47 | 1.36 | 7.09 | 1.79 | 2.08 | |
| -15 (+ 5) | 558 | 141 | 163 | 70 | 0.53 | 1.76 | 7.93 | 2.00 | 2.32 | |
| -10 (+14) | 705 | 178 | 206 | 79 | 0.59 | 2.22 | 8.89 | 2.24 | 2.60 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 319 | 80 | 94 | 53 | 0.40 | 1.00 | 5.97 | 1.51 | 1.75 | |
| -30 (-22) | 438 | 110 | 128 | 63 | 0.47 | 1.37 | 6.90 | 1.74 | 2.02 | |
| -25 (-13) | 578 | 146 | 169 | 74 | 0.55 | 1.81 | 7.85 | 1.98 | 2.30 | |
| -20 (- 4) | 743 | 187 | 218 | 84 | 0.62 | 2.33 | 8.86 | 2.23 | 2.60 | |
| -15 (+ 5) | 935 | 236 | 274 | 94 | 0.69 | 2.94 | 9.93 | 2.50 | 2.91 | |
| -10 (+14) | 1158 | 292 | 339 | 105 | 0.76 | 3.65 | 11.09 | 2.80 | 3.25 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 287 | 72 | 84 | 54 | 0.41 | 0.90 | 5.35 | 1.35 | 1.57 | |
| -30 (-22) | 404 | 102 | 118 | 65 | 0.50 | 1.27 | 6.16 | 1.55 | 1.80 | |
| -25 (-13) | 542 | 137 | 159 | 77 | 0.58 | 1.70 | 6.99 | 1.76 | 2.05 | |
| -20 (- 4) | 706 | 178 | 207 | 90 | 0.66 | 2.22 | 7.87 | 1.98 | 2.31 | |
| -15 (+ 5) | 900 | 227 | 264 | 102 | 0.74 | 2.83 | 8.81 | 2.22 | 2.58 | |
| -10 (+14) | 1125 | 284 | 330 | 115 | 0.82 | 3.55 | 9.82 | 2.48 | 2.88 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @220V3000RPM | | 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) | 258 | 65 | 76 | 54 | 0.40 | 0.81 | 4.77 | 1.20 | 1.40 | |
| -30 (-22) | 368 | 93 | 108 | 67 | 0.50 | 1.15 | 5.49 | 1.38 | 1.61 | |
| -25 (-13) | 501 | 126 | 147 | 80 | 0.60 | 1.57 | 6.23 | 1.57 | 1.82 | |
| -20 (- 4) | 660 | 166 | 194 | 94 | 0.70 | 2.08 | 7.00 | 1.76 | 2.05 | |
| -15 (+ 5) | 851 | 214 | 249 | 108 | 0.79 | 2.68 | 7.83 | 1.97 | 2.29 | |
| -10 (+14) | 1074 | 271 | 315 | 123 | 0.89 | 3.39 | 8.73 | 2.20 | 2.56 | |

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) | 458 | 115 | 134 | 83 | 0.61 | 1.43 | 5.49 | 1.38 | 1.61 | |
| -30 (-22) | 605 | 152 | 177 | 97 | 0.69 | 1.90 | 6.25 | 1.58 | 1.83 | |
| -25 (-13) | 768 | 193 | 225 | 109 | 0.76 | 2.41 | 7.08 | 1.78 | 2.07 | |
| -20 (- 4) | 964 | 243 | 283 | 121 | 0.83 | 3.03 | 7.98 | 2.01 | 2.34 | |
| -15 (+ 5) | 1214 | 306 | 356 | 135 | 0.91 | 3.82 | 8.96 | 2.26 | 2.63 | |
| -10 (+14) | 1537 | 387 | 450 | 152 | 1.00 | 4.85 | 10.03 | 2.53 | 2.94 | |

| 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) | 445 | 112 | 130 | 86 | 0.64 | 1.39 | 5.14 | 1.29 | 1.50 | |
| -30 (-22) | 592 | 149 | 174 | 102 | 0.73 | 1.86 | 5.78 | 1.46 | 1.69 | |
| -25 (-13) | 751 | 189 | 220 | 116 | 0.82 | 2.36 | 6.49 | 1.64 | 1.90 | |
| -20 (- 4) | 940 | 237 | 275 | 130 | 0.89 | 2.95 | 7.28 | 1.83 | 2.13 | |
| -15 (+ 5) | 1178 | 297 | 345 | 145 | 0.97 | 3.71 | 8.14 | 2.05 | 2.39 | |
| -10 (+14) | 1486 | 374 | 435 | 163 | 1.06 | 4.69 | 9.09 | 2.29 | 2.66 | |

| 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) | 394 | 99 | 116 | 86 | 0.63 | 1.24 | 4.61 | 1.16 | 1.35 | |
| -30 (-22) | 553 | 139 | 162 | 105 | 0.75 | 1.73 | 5.19 | 1.31 | 1.52 | |
| -25 (-13) | 720 | 181 | 211 | 123 | 0.85 | 2.26 | 5.83 | 1.47 | 1.71 | |
| -20 (- 4) | 913 | 230 | 268 | 139 | 0.94 | 2.87 | 6.55 | 1.65 | 1.92 | |
| -15 (+ 5) | 1152 | 290 | 338 | 157 | 1.03 | 3.63 | 7.34 | 1.85 | 2.15 | |
| -10 (+14) | 1456 | 367 | 427 | 177 | 1.12 | 4.60 | 8.21 | 2.07 | 2.41 | |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|------------------------------|------|--------------------------|
| 1 Base plate | European Standard VES | | |
| 2 Tray holder | Yes | | |
| 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 | 4.9 +0.10/-0.05 | [mm] | (0.193" +0.004"/-0.002") |
| 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 | | |