

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | FMS D11C |
| Nominal Voltage/Frequency | 230 V 90-315 Hz |
| Engineering Number | 518000038 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|--|-------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-600a | | |
| 3 Nominal voltage and frequency | 230 / 90-315 | [V / Hz] | |
| 4 Application type | Low-Medium Back Pressure (Hot Gas Defrost not allowed) | | |
| 4.1 Evaporating temperature range | -35°C to 0°C | (-31°F to 32°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) | - | - | - |
| 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 | 6.9 | [kgf/cm²] (98 psig) | / °C - °F |
| 9.2 Peak | 7.8 | [kgf/cm²] (111 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|----------------|----------------------------------|
| 1 Commercial designation | 1/6 | [hp] |
| 2 Displacement | 7.87 | [cm ³] (0.480 cu.in) |
| 2.1 Bore [mm] | 22.500 | |
| 2.2 Stroke [mm] | 19.800 | |
| 3 Lubricant charge | 140 | [ml] (4.73 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO5 | |
| 4 Weight (with oil charge) | 3.58 | [kg] (7.89 lb.) |
| 5 Nitrogen charge | - | [kgf/cm ²] |

C - ELETRICAL DATA

| | | |
|--|----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 90-315 Hz 3~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | CF02F01L | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | CF02F01 L 00 XX F | |
| 6 Start winding resistance | 10.75 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 10.75 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (90/315 Hz) | 2.17 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (90/315 Hz) | 1.25 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (90/315 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | CE - UKCA - UL | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|----------------------------------|----------|-----|------------------------------------|--------------------------------------|--|-------------------------------|---|-------|
| TEST CONDITIONS: @115V1800RPM | | | 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] |
| 280 | 71 | 82 | 44 | 0.88 | 0.88 | 6.36 | 1.60 | 1.86 |

| | | | | | | | | |
|----------------------------------|----------|-----|------------------------------------|--------------------------------------|--|-------------------------------|---|-------|
| TEST CONDITIONS: @115V2800RPM | | | 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] |
| 430 | 108 | 126 | 66 | 1.30 | 1.35 | 6.55 | 1.65 | 1.92 |

| | | | | | | | | |
|----------------------------------|----------|-----|------------------------------------|--------------------------------------|--|-------------------------------|---|-------|
| 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] |
| 622 | 157 | 182 | 98 | 1.93 | 1.95 | 6.33 | 1.60 | 1.85 |

| | | | | | | | | |
|----------------------------------|----------|-----|------------------------------------|--------------------------------------|--|-------------------------------|---|-------|
| TEST CONDITIONS: @115V6300RPM | | | 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] |
| 901 | 227 | 264 | 159 | 2.84 | 2.83 | 5.67 | 1.43 | 1.66 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V1800RPM | | 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) | 163 | 41 | 48 | 27 | 0.58 | 0.51 | 5.97 | 1.50 | 1.75 |
| -30 | (-22) | 220 | 55 | 64 | 32 | 0.65 | 0.69 | 6.92 | 1.74 | 2.03 |
| -25 | (-13) | 287 | 72 | 84 | 36 | 0.73 | 0.90 | 7.91 | 1.99 | 2.32 |
| -20 | (- 4) | 368 | 93 | 108 | 41 | 0.80 | 1.16 | 8.99 | 2.26 | 2.63 |
| -15 | (+ 5) | 467 | 118 | 137 | 46 | 0.87 | 1.47 | 10.21 | 2.57 | 2.99 |
| -10 | (+14) | 587 | 148 | 172 | 50 | 0.94 | 1.85 | 11.65 | 2.93 | 3.41 |
| -5 | (+23) | 731 | 184 | 214 | 55 | 1.01 | 2.31 | 13.35 | 3.36 | 3.91 |
| 0 | (+32) | 904 | 228 | 265 | 59 | 1.09 | 2.87 | 15.38 | 3.88 | 4.51 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V1800RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 148 | 37 | 43 | 28 | 0.56 | 0.46 | 5.31 | 1.34 | 1.56 |
| -30 | (-22) | 204 | 51 | 60 | 33 | 0.67 | 0.64 | 6.14 | 1.55 | 1.80 |
| -25 | (-13) | 271 | 68 | 79 | 39 | 0.77 | 0.85 | 6.95 | 1.75 | 2.04 |
| -20 | (- 4) | 352 | 89 | 103 | 45 | 0.87 | 1.11 | 7.81 | 1.97 | 2.29 |
| -15 | (+ 5) | 452 | 114 | 133 | 51 | 0.97 | 1.42 | 8.77 | 2.21 | 2.57 |
| -10 | (+14) | 574 | 145 | 168 | 58 | 1.06 | 1.81 | 9.89 | 2.49 | 2.90 |
| -5 | (+23) | 722 | 182 | 211 | 64 | 1.16 | 2.28 | 11.23 | 2.83 | 3.29 |
| 0 | (+32) | 898 | 226 | 263 | 70 | 1.25 | 2.85 | 12.86 | 3.24 | 3.77 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V1800RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 126 | 32 | 37 | 27 | 0.53 | 0.39 | 4.56 | 1.15 | 1.33 |
| -30 | (-22) | 180 | 45 | 53 | 34 | 0.68 | 0.57 | 5.33 | 1.34 | 1.56 |
| -25 | (-13) | 247 | 62 | 72 | 41 | 0.81 | 0.78 | 6.05 | 1.52 | 1.77 |
| -20 | (- 4) | 329 | 83 | 97 | 49 | 0.95 | 1.03 | 6.76 | 1.70 | 1.98 |
| -15 | (+ 5) | 431 | 109 | 126 | 57 | 1.07 | 1.36 | 7.53 | 1.90 | 2.21 |
| -10 | (+14) | 555 | 140 | 163 | 66 | 1.19 | 1.75 | 8.41 | 2.12 | 2.47 |
| -5 | (+23) | 706 | 178 | 207 | 75 | 1.31 | 2.23 | 9.47 | 2.39 | 2.78 |
| 0 | (+32) | 887 | 224 | 260 | 83 | 1.42 | 2.81 | 10.77 | 2.71 | 3.16 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @115V2200RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 200 | 50 | 59 | 33 | 0.66 | 0.63 | 6.00 | 1.51 | 1.76 |
| -30 | (-22) | 272 | 69 | 80 | 39 | 0.76 | 0.85 | 7.03 | 1.77 | 2.06 |
| -25 | (-13) | 356 | 90 | 104 | 44 | 0.86 | 1.12 | 8.00 | 2.02 | 2.34 |
| -20 | (- 4) | 455 | 115 | 133 | 51 | 0.96 | 1.43 | 9.00 | 2.27 | 2.64 |
| -15 | (+ 5) | 574 | 145 | 168 | 57 | 1.05 | 1.81 | 10.14 | 2.56 | 2.97 |
| -10 | (+14) | 717 | 181 | 210 | 62 | 1.14 | 2.26 | 11.51 | 2.90 | 3.37 |
| -5 | (+23) | 888 | 224 | 260 | 67 | 1.20 | 2.81 | 13.20 | 3.33 | 3.87 |
| 0 | (+32) | 1090 | 275 | 319 | 71 | 1.26 | 3.45 | 15.31 | 3.86 | 4.49 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V2200RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 183 | 46 | 53 | 34 | 0.66 | 0.57 | 5.40 | 1.36 | 1.58 |
| -30 | (-22) | 254 | 64 | 75 | 40 | 0.79 | 0.80 | 6.31 | 1.59 | 1.85 |
| -25 | (-13) | 337 | 85 | 99 | 47 | 0.92 | 1.06 | 7.12 | 1.79 | 2.09 |
| -20 | (- 4) | 435 | 110 | 128 | 55 | 1.04 | 1.37 | 7.92 | 1.99 | 2.32 |
| -15 | (+ 5) | 553 | 139 | 162 | 63 | 1.16 | 1.74 | 8.80 | 2.22 | 2.58 |
| -10 | (+14) | 693 | 175 | 203 | 70 | 1.26 | 2.19 | 9.85 | 2.48 | 2.89 |
| -5 | (+23) | 860 | 217 | 252 | 77 | 1.34 | 2.72 | 11.19 | 2.82 | 3.28 |
| 0 | (+32) | 1059 | 267 | 310 | 83 | 1.41 | 3.36 | 12.89 | 3.25 | 3.78 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V2200RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 154 | 39 | 45 | 33 | 0.64 | 0.48 | 4.65 | 1.17 | 1.36 |
| -30 | (-22) | 228 | 57 | 67 | 41 | 0.80 | 0.71 | 5.53 | 1.39 | 1.62 |
| -25 | (-13) | 311 | 78 | 91 | 50 | 0.96 | 0.98 | 6.26 | 1.58 | 1.84 |
| -20 | (- 4) | 409 | 103 | 120 | 59 | 1.12 | 1.29 | 6.93 | 1.75 | 2.03 |
| -15 | (+ 5) | 525 | 132 | 154 | 69 | 1.26 | 1.65 | 7.64 | 1.92 | 2.24 |
| -10 | (+14) | 664 | 167 | 195 | 78 | 1.39 | 2.10 | 8.48 | 2.14 | 2.48 |
| -5 | (+23) | 830 | 209 | 243 | 87 | 1.50 | 2.63 | 9.54 | 2.40 | 2.79 |
| 0 | (+32) | 1026 | 259 | 301 | 95 | 1.59 | 3.25 | 10.92 | 2.75 | 3.20 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @115V2800RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 255 | 64 | 75 | 43 | 0.82 | 0.80 | 6.00 | 1.51 | 1.76 |
| -30 | (-22) | 341 | 86 | 100 | 49 | 0.95 | 1.07 | 6.91 | 1.74 | 2.02 |
| -25 | (-13) | 447 | 113 | 131 | 57 | 1.07 | 1.40 | 7.82 | 1.97 | 2.29 |
| -20 | (- 4) | 575 | 145 | 169 | 65 | 1.19 | 1.81 | 8.81 | 2.22 | 2.58 |
| -15 | (+ 5) | 729 | 184 | 214 | 73 | 1.31 | 2.29 | 9.93 | 2.50 | 2.91 |
| -10 | (+14) | 911 | 230 | 267 | 81 | 1.42 | 2.87 | 11.24 | 2.83 | 3.29 |
| -5 | (+23) | 1124 | 283 | 329 | 88 | 1.52 | 3.55 | 12.81 | 3.23 | 3.75 |
| 0 | (+32) | 1372 | 346 | 402 | 93 | 1.61 | 4.35 | 14.70 | 3.70 | 4.31 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @115V2800RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 232 | 58 | 68 | 43 | 0.82 | 0.73 | 5.41 | 1.36 | 1.59 |
| -30 | (-22) | 318 | 80 | 93 | 51 | 0.98 | 1.00 | 6.24 | 1.57 | 1.83 |
| -25 | (-13) | 423 | 107 | 124 | 60 | 1.14 | 1.33 | 7.02 | 1.77 | 2.06 |
| -20 | (- 4) | 550 | 139 | 161 | 70 | 1.29 | 1.73 | 7.83 | 1.97 | 2.29 |
| -15 | (+ 5) | 702 | 177 | 206 | 80 | 1.43 | 2.21 | 8.72 | 2.20 | 2.55 |
| -10 | (+14) | 882 | 222 | 258 | 90 | 1.57 | 2.78 | 9.75 | 2.46 | 2.86 |
| -5 | (+23) | 1092 | 275 | 320 | 99 | 1.68 | 3.45 | 11.00 | 2.77 | 3.22 |
| 0 | (+32) | 1336 | 337 | 391 | 107 | 1.79 | 4.23 | 12.51 | 3.15 | 3.67 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @115V2800RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 197 | 50 | 58 | 42 | 0.80 | 0.62 | 4.71 | 1.19 | 1.38 |
| -30 | (-22) | 286 | 72 | 84 | 52 | 1.00 | 0.90 | 5.52 | 1.39 | 1.62 |
| -25 | (-13) | 394 | 99 | 115 | 63 | 1.19 | 1.24 | 6.25 | 1.57 | 1.83 |
| -20 | (- 4) | 522 | 132 | 153 | 75 | 1.38 | 1.64 | 6.95 | 1.75 | 2.04 |
| -15 | (+ 5) | 674 | 170 | 198 | 88 | 1.55 | 2.12 | 7.69 | 1.94 | 2.25 |
| -10 | (+14) | 854 | 215 | 250 | 100 | 1.72 | 2.69 | 8.53 | 2.15 | 2.50 |
| -5 | (+23) | 1063 | 268 | 311 | 112 | 1.86 | 3.36 | 9.52 | 2.40 | 2.79 |
| 0 | (+32) | 1306 | 329 | 383 | 122 | 1.99 | 4.14 | 10.74 | 2.71 | 3.15 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---------------------------------------|---------------------|---------------|-----------------|-----------|-------|
| @115V4000RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 356 | 90 | 104 | 62 | 1.15 | 1.12 | 5.72 | 1.44 | 1.68 |
| -30 | (-22) | 477 | 120 | 140 | 73 | 1.32 | 1.50 | 6.55 | 1.65 | 1.92 |
| -25 | (-13) | 625 | 158 | 183 | 85 | 1.50 | 1.96 | 7.37 | 1.86 | 2.16 |
| -20 | (- 4) | 805 | 203 | 236 | 98 | 1.68 | 2.53 | 8.23 | 2.07 | 2.41 |
| -15 | (+ 5) | 1020 | 257 | 299 | 111 | 1.86 | 3.21 | 9.20 | 2.32 | 2.70 |
| -10 | (+14) | 1274 | 321 | 373 | 123 | 2.03 | 4.02 | 10.35 | 2.61 | 3.03 |
| -5 | (+23) | 1571 | 396 | 460 | 134 | 2.19 | 4.97 | 11.73 | 2.95 | 3.44 |
| 0 | (+32) | 1915 | 483 | 561 | 143 | 2.32 | 6.07 | 13.40 | 3.38 | 3.93 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V4000RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 329 | 83 | 96 | 62 | 1.15 | 1.03 | 5.27 | 1.33 | 1.54 |
| -30 | (-22) | 449 | 113 | 131 | 74 | 1.36 | 1.41 | 6.05 | 1.52 | 1.77 |
| -25 | (-13) | 595 | 150 | 174 | 88 | 1.57 | 1.87 | 6.77 | 1.70 | 1.98 |
| -20 | (- 4) | 772 | 195 | 226 | 103 | 1.79 | 2.43 | 7.48 | 1.89 | 2.19 |
| -15 | (+ 5) | 983 | 248 | 288 | 119 | 2.00 | 3.09 | 8.26 | 2.08 | 2.42 |
| -10 | (+14) | 1233 | 311 | 361 | 135 | 2.19 | 3.89 | 9.15 | 2.31 | 2.68 |
| -5 | (+23) | 1524 | 384 | 447 | 149 | 2.37 | 4.82 | 10.24 | 2.58 | 3.00 |
| 0 | (+32) | 1861 | 469 | 545 | 161 | 2.53 | 5.90 | 11.57 | 2.92 | 3.39 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|---|---------------------|---------------|-----------------|-----------|-------|
| @115V4000RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 283 | 71 | 83 | 61 | 1.12 | 0.88 | 4.64 | 1.17 | 1.36 |
| -30 | (-22) | 409 | 103 | 120 | 75 | 1.37 | 1.28 | 5.47 | 1.38 | 1.60 |
| -25 | (-13) | 561 | 141 | 164 | 91 | 1.63 | 1.76 | 6.18 | 1.56 | 1.81 |
| -20 | (- 4) | 742 | 187 | 217 | 109 | 1.88 | 2.33 | 6.84 | 1.72 | 2.00 |
| -15 | (+ 5) | 957 | 241 | 280 | 127 | 2.13 | 3.01 | 7.51 | 1.89 | 2.20 |
| -10 | (+14) | 1209 | 305 | 354 | 146 | 2.37 | 3.81 | 8.26 | 2.08 | 2.42 |
| -5 | (+23) | 1502 | 378 | 440 | 164 | 2.58 | 4.75 | 9.14 | 2.30 | 2.68 |
| 0 | (+32) | 1840 | 464 | 539 | 181 | 2.77 | 5.83 | 10.22 | 2.58 | 3.00 |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|-------|------------------|----------|-----|--|---------------------|---------------|-----------------|-----------|-------|
| @115V6300RPM | | Static | | | | | | | | |
| Evaporating temperature | | Cooling capacity | | | Power consumption | Current consumption | Gas flow rate | EFFICIENCY RATE | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 520 | 131 | 152 | 107 | 1.86 | 1.63 | 4.87 | 1.23 | 1.43 |
| -30 | (-22) | 675 | 170 | 198 | 122 | 2.07 | 2.12 | 5.56 | 1.40 | 1.63 |
| -25 | (-13) | 903 | 228 | 265 | 146 | 2.38 | 2.83 | 6.18 | 1.56 | 1.81 |
| -20 | (- 4) | 1185 | 299 | 347 | 173 | 2.73 | 3.72 | 6.83 | 1.72 | 2.00 |
| -15 | (+ 5) | 1501 | 378 | 440 | 198 | 3.04 | 4.72 | 7.60 | 1.92 | 2.23 |
| -10 | (+14) | 1831 | 461 | 537 | 214 | 3.25 | 5.77 | 8.62 | 2.17 | 2.53 |
| -5 | (+23) | 2157 | 543 | 632 | 216 | 3.27 | 6.82 | 9.98 | 2.52 | 2.93 |
| 0 | (+32) | 2458 | 619 | 720 | 197 | 3.04 | 7.79 | 11.80 | 2.97 | 3.46 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @115V6300RPM | | 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% | | |
| | | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 513 | 129 | 150 | 110 | 1.94 | 1.61 | 4.65 | 1.17 | 1.36 |
| -30 | (-22) | 665 | 168 | 195 | 126 | 2.16 | 2.08 | 5.32 | 1.34 | 1.56 |
| -25 | (-13) | 886 | 223 | 260 | 150 | 2.49 | 2.78 | 5.89 | 1.48 | 1.72 |
| -20 | (- 4) | 1156 | 291 | 339 | 179 | 2.85 | 3.63 | 6.44 | 1.62 | 1.89 |
| -15 | (+ 5) | 1457 | 367 | 427 | 205 | 3.16 | 4.59 | 7.10 | 1.79 | 2.08 |
| -10 | (+14) | 1769 | 446 | 518 | 223 | 3.37 | 5.58 | 7.96 | 2.01 | 2.33 |
| -5 | (+23) | 2072 | 522 | 607 | 227 | 3.39 | 6.55 | 9.14 | 2.30 | 2.68 |
| 0 | (+32) | 2347 | 592 | 688 | 211 | 3.15 | 7.45 | 10.74 | 2.71 | 3.15 |

| TEST CONDITIONS: @115V6300RPM | | 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% | | |
| | | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -35 | (-31) | 463 | 117 | 136 | 108 | 1.92 | 1.45 | 4.29 | 1.08 | 1.26 |
| -30 | (-22) | 610 | 154 | 179 | 123 | 2.16 | 1.91 | 4.99 | 1.26 | 1.46 |
| -25 | (-13) | 822 | 207 | 241 | 149 | 2.50 | 2.58 | 5.55 | 1.40 | 1.62 |
| -20 | (- 4) | 1080 | 272 | 317 | 178 | 2.86 | 3.40 | 6.06 | 1.53 | 1.78 |
| -15 | (+ 5) | 1365 | 344 | 400 | 205 | 3.18 | 4.30 | 6.65 | 1.68 | 1.95 |
| -10 | (+14) | 1657 | 418 | 486 | 224 | 3.39 | 5.23 | 7.41 | 1.87 | 2.17 |
| -5 | (+23) | 1937 | 488 | 568 | 229 | 3.40 | 6.13 | 8.45 | 2.13 | 2.48 |
| 0 | (+32) | 2185 | 551 | 640 | 215 | 3.16 | 6.93 | 9.88 | 2.49 | 2.90 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|--------------------------------|------|--------------------------|
| 1 Base plate | European Standard ES/FMS | | |
| 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 parallel to Base Plate | | |
| 3.2 DISCHARGE | 4.94 +0.08/-0.08 | [mm] | (0.194" +0.003"/-0.003") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Slanted parallel BP+45°to Back | | |
| 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 | | |