

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | FM FT406U |
| Nominal Voltage/Frequency | 230 V 46-150 Hz |
| Engineering Number | 513805032 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|------------------------------------|--|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-290 | | |
| 3 Nominal voltage and frequency | 230 / 46-150 | [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 | HST - Hight 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) | - | - | - |
| 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 | 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

| | | |
|-------------------------------|-----------------|--|
| 1 Commercial designation | 1/2 | [hp] |
| 2 Displacement | 6.44 | [cm ³] (0.393 cu.in) |
| 2.1 Bore [mm] | 22.500 | |
| 2.2 Stroke [mm] | 16.200 | |
| 3 Lubricant charge | 430 | [ml] (14.54 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ALQUILB / ISO22 | |
| 4 Weight (with oil charge) | 10.28 | [kg] (22.66 lb.) |
| 5 Nitrogen charge | 0.2 to 0.3 | [kgf/cm ²] (2.84 to 4.27 psig) |

C - ELETRICAL DATA

| | | |
|--|----------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 230 V 46-150 Hz 3~ (Three phase) | |
| 2 Starting device type | Inverter | |
| 2.1 Starting device | CF10B04 W 0.0 X | |
| 3 Start capacitor | - | [µF(VAC minimum)] |
| 4 Run capacitor | - | [µF(VAC minimum)] |
| 5 Motor protection | CF10B04 W 0.0 X | |
| 6 Start winding resistance | 10.55 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 10.55 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50/60 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|---|----------|-----|-----------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @100V1400RPM | | | ASHRAELBP32 Fan | | 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] |
| 539 | 136 | 158 | 87 | 1.21 | 1.60 | 6.20 | 1.56 | 1.82 |

| | | | | | | | | |
|---|----------|-----|-----------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @100V1800RPM | | | ASHRAELBP32 Fan | | 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] |
| 692 | 174 | 203 | 109 | 1.48 | 2.06 | 6.38 | 1.61 | 1.87 |

| | | | | | | | | |
|---|----------|-----|-----------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @100V3000RPM | | | ASHRAELBP32 Fan | | 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] |
| 1174 | 296 | 344 | 184 | 2.50 | 3.49 | 6.39 | 1.61 | 1.87 |

| | | | | | | | | |
|---|----------|-----|-----------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @100V3600RPM | | | ASHRAELBP32 Fan | | 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] |
| 1340 | 338 | 393 | 221 | 2.88 | 3.99 | 6.07 | 1.53 | 1.78 |

| | | | | | | | | |
|---|----------|-----|-----------------------------|-------------------------------|---|---------------------------|--|-------|
| TEST CONDITIONS: @100V4500RPM | | | ASHRAELBP32 Fan | | 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] |
| 1468 | 370 | 430 | 241 | 3.13 | 4.37 | 6.09 | 1.53 | 1.78 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @100V1400RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 257 | 65 | 75 | 45 | 0.66 | 0.76 | 5.75 | 1.45 | 1.68 |
| -35 | (-31) | 332 | 84 | 97 | 53 | 0.77 | 0.98 | 6.32 | 1.59 | 1.85 |
| -30 | (-22) | 422 | 106 | 124 | 60 | 0.87 | 1.25 | 6.98 | 1.76 | 2.05 |
| -25 | (-13) | 528 | 133 | 155 | 68 | 0.96 | 1.57 | 7.79 | 1.96 | 2.28 |
| -20 | (- 4) | 654 | 165 | 192 | 74 | 1.05 | 1.95 | 8.78 | 2.21 | 2.57 |
| -15 | (+ 5) | 804 | 203 | 236 | 80 | 1.12 | 2.41 | 10.02 | 2.52 | 2.94 |
| -10 | (+14) | 981 | 247 | 287 | 85 | 1.18 | 2.95 | 11.54 | 2.91 | 3.38 |
| -5 | (+23) | 1188 | 299 | 348 | 89 | 1.23 | 3.59 | 13.40 | 3.38 | 3.93 |
| 0 | (+32) | 1429 | 360 | 419 | 91 | 1.26 | 4.34 | 15.65 | 3.94 | 4.59 |

| TEST CONDITIONS: @100V1400RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 230 | 58 | 67 | 46 | 0.67 | 0.68 | 5.04 | 1.27 | 1.48 |
| -35 | (-31) | 313 | 79 | 92 | 56 | 0.81 | 0.93 | 5.61 | 1.41 | 1.64 |
| -30 | (-22) | 407 | 103 | 119 | 66 | 0.94 | 1.21 | 6.20 | 1.56 | 1.82 |
| -25 | (-13) | 516 | 130 | 151 | 75 | 1.06 | 1.53 | 6.85 | 1.73 | 2.01 |
| -20 | (- 4) | 642 | 162 | 188 | 84 | 1.17 | 1.91 | 7.61 | 1.92 | 2.23 |
| -15 | (+ 5) | 789 | 199 | 231 | 92 | 1.27 | 2.36 | 8.52 | 2.15 | 2.50 |
| -10 | (+14) | 960 | 242 | 281 | 99 | 1.36 | 2.89 | 9.65 | 2.43 | 2.83 |
| -5 | (+23) | 1159 | 292 | 339 | 105 | 1.43 | 3.50 | 11.03 | 2.78 | 3.23 |
| 0 | (+32) | 1388 | 350 | 407 | 109 | 1.49 | 4.22 | 12.72 | 3.20 | 3.73 |

| TEST CONDITIONS: @100V1400RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 195 | 49 | 57 | 46 | 0.68 | 0.57 | 4.19 | 1.05 | 1.23 |
| -35 | (-31) | 285 | 72 | 83 | 59 | 0.85 | 0.84 | 4.85 | 1.22 | 1.42 |
| -30 | (-22) | 383 | 97 | 112 | 71 | 1.01 | 1.14 | 5.44 | 1.37 | 1.59 |
| -25 | (-13) | 493 | 124 | 144 | 83 | 1.16 | 1.46 | 6.01 | 1.52 | 1.76 |
| -20 | (- 4) | 617 | 156 | 181 | 94 | 1.30 | 1.84 | 6.61 | 1.67 | 1.94 |
| -15 | (+ 5) | 760 | 192 | 223 | 104 | 1.43 | 2.28 | 7.29 | 1.84 | 2.14 |
| -10 | (+14) | 925 | 233 | 271 | 114 | 1.55 | 2.78 | 8.10 | 2.04 | 2.37 |
| -5 | (+23) | 1114 | 281 | 326 | 122 | 1.65 | 3.37 | 9.09 | 2.29 | 2.66 |
| 0 | (+32) | 1331 | 335 | 390 | 129 | 1.74 | 4.05 | 10.30 | 2.59 | 3.02 |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 35°C (+95°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|---------------------------------------|---------------|-----------------|-----------|-------|--|
| @100V3000RPM | | Fan | | | | | | | | |
| 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] | |
| -40 (-40) | 555 | 140 | 163 | 104 | 1.43 | 1.64 | 5.34 | 1.34 | 1.56 | |
| -35 (-31) | 720 | 181 | 211 | 119 | 1.62 | 2.13 | 6.03 | 1.52 | 1.77 | |
| -30 (-22) | 914 | 230 | 268 | 136 | 1.81 | 2.71 | 6.74 | 1.70 | 1.97 | |
| -25 (-13) | 1144 | 288 | 335 | 152 | 2.01 | 3.40 | 7.53 | 1.90 | 2.21 | |
| -20 (- 4) | 1418 | 357 | 416 | 168 | 2.21 | 4.23 | 8.45 | 2.13 | 2.48 | |
| -15 (+ 5) | 1742 | 439 | 511 | 182 | 2.39 | 5.22 | 9.56 | 2.41 | 2.80 | |
| -10 (+14) | 2124 | 535 | 622 | 195 | 2.55 | 6.40 | 10.92 | 2.75 | 3.20 | |
| -5 (+23) | 2571 | 648 | 753 | 205 | 2.68 | 7.78 | 12.58 | 3.17 | 3.69 | |
| 0 (+32) | 3089 | 778 | 905 | 211 | 2.77 | 9.39 | 14.60 | 3.68 | 4.28 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 45°C (+113°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @100V3000RPM | | Fan | | | | | | | | |
| 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] | |
| -40 (-40) | 512 | 129 | 150 | 106 | 1.50 | 1.51 | 4.81 | 1.21 | 1.41 | |
| -35 (-31) | 686 | 173 | 201 | 124 | 1.72 | 2.03 | 5.54 | 1.39 | 1.62 | |
| -30 (-22) | 882 | 222 | 258 | 142 | 1.95 | 2.61 | 6.21 | 1.57 | 1.82 | |
| -25 (-13) | 1107 | 279 | 324 | 161 | 2.18 | 3.29 | 6.89 | 1.74 | 2.02 | |
| -20 (- 4) | 1369 | 345 | 401 | 180 | 2.40 | 4.08 | 7.64 | 1.92 | 2.24 | |
| -15 (+ 5) | 1673 | 422 | 490 | 197 | 2.61 | 5.01 | 8.50 | 2.14 | 2.49 | |
| -10 (+14) | 2029 | 511 | 594 | 213 | 2.79 | 6.10 | 9.53 | 2.40 | 2.79 | |
| -5 (+23) | 2441 | 615 | 715 | 226 | 2.94 | 7.38 | 10.79 | 2.72 | 3.16 | |
| 0 (+32) | 2918 | 735 | 855 | 236 | 3.05 | 8.87 | 12.34 | 3.11 | 3.62 | |

| TEST CONDITIONS: | | ASHRAE32 | | | (Condensing temperature 55°C (+131°F)) | | | | | |
|-------------------------|------------------|----------|-----|-------------------|--|---------------|-----------------|-----------|-------|--|
| @100V3000RPM | | Fan | | | | | | | | |
| 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] | |
| -40 (-40) | 435 | 110 | 127 | 105 | 1.48 | 1.28 | 4.15 | 1.05 | 1.22 | |
| -35 (-31) | 635 | 160 | 186 | 128 | 1.79 | 1.88 | 4.92 | 1.24 | 1.44 | |
| -30 (-22) | 851 | 214 | 249 | 152 | 2.11 | 2.52 | 5.57 | 1.40 | 1.63 | |
| -25 (-13) | 1088 | 274 | 319 | 177 | 2.42 | 3.23 | 6.16 | 1.55 | 1.80 | |
| -20 (- 4) | 1355 | 341 | 397 | 202 | 2.72 | 4.04 | 6.73 | 1.70 | 1.97 | |
| -15 (+ 5) | 1657 | 418 | 486 | 225 | 3.00 | 4.96 | 7.35 | 1.85 | 2.15 | |
| -10 (+14) | 2003 | 505 | 587 | 248 | 3.26 | 6.03 | 8.07 | 2.03 | 2.36 | |
| -5 (+23) | 2400 | 605 | 703 | 268 | 3.48 | 7.25 | 8.94 | 2.25 | 2.62 | |
| 0 (+32) | 2853 | 719 | 836 | 285 | 3.65 | 8.67 | 10.03 | 2.53 | 2.94 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @100V3600RPM | | ASHRAE32 Fan | | | (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] |
| -40 (-40) | 662 | 167 | 194 | 130 | 1.75 | 1.96 | 5.06 | 1.28 | 1.48 | |
| -35 (-31) | 852 | 215 | 250 | 149 | 1.99 | 2.52 | 5.71 | 1.44 | 1.67 | |
| -30 (-22) | 1098 | 277 | 322 | 170 | 2.25 | 3.26 | 6.44 | 1.62 | 1.89 | |
| -25 (-13) | 1400 | 353 | 410 | 192 | 2.52 | 4.16 | 7.27 | 1.83 | 2.13 | |
| -20 (- 4) | 1756 | 443 | 515 | 213 | 2.78 | 5.24 | 8.23 | 2.08 | 2.41 | |
| -15 (+ 5) | 2165 | 546 | 634 | 232 | 3.02 | 6.49 | 9.35 | 2.36 | 2.74 | |
| -10 (+14) | 2624 | 661 | 769 | 248 | 3.21 | 7.90 | 10.64 | 2.68 | 3.12 | |
| -5 (+23) | 3134 | 790 | 918 | 259 | 3.35 | 9.48 | 12.14 | 3.06 | 3.56 | |
| 0 (+32) | 3691 | 930 | 1082 | 265 | 3.42 | 11.22 | 13.86 | 3.49 | 4.06 | |

| TEST CONDITIONS: @100V3600RPM | | ASHRAE32 Fan | | | (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] |
| -40 (-40) | 601 | 151 | 176 | 136 | 1.83 | 1.77 | 4.44 | 1.12 | 1.30 | |
| -35 (-31) | 784 | 197 | 230 | 156 | 2.08 | 2.32 | 5.05 | 1.27 | 1.48 | |
| -30 (-22) | 1021 | 257 | 299 | 179 | 2.37 | 3.03 | 5.70 | 1.44 | 1.67 | |
| -25 (-13) | 1313 | 331 | 385 | 203 | 2.67 | 3.90 | 6.41 | 1.62 | 1.88 | |
| -20 (- 4) | 1656 | 417 | 485 | 228 | 2.97 | 4.94 | 7.21 | 1.82 | 2.11 | |
| -15 (+ 5) | 2050 | 517 | 601 | 251 | 3.25 | 6.14 | 8.11 | 2.04 | 2.38 | |
| -10 (+14) | 2493 | 628 | 730 | 272 | 3.50 | 7.50 | 9.15 | 2.30 | 2.68 | |
| -5 (+23) | 2983 | 752 | 874 | 289 | 3.71 | 9.02 | 10.34 | 2.61 | 3.03 | |
| 0 (+32) | 3519 | 887 | 1031 | 301 | 3.85 | 10.70 | 11.72 | 2.95 | 3.43 | |

| TEST CONDITIONS: @100V3600RPM | | ASHRAE32 Fan | | | (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] |
| -40 (-40) | 571 | 144 | 167 | 140 | 1.86 | 1.69 | 4.04 | 1.02 | 1.18 | |
| -35 (-31) | 738 | 186 | 216 | 160 | 2.13 | 2.18 | 4.64 | 1.17 | 1.36 | |
| -30 (-22) | 957 | 241 | 281 | 185 | 2.43 | 2.84 | 5.24 | 1.32 | 1.53 | |
| -25 (-13) | 1228 | 310 | 360 | 211 | 2.76 | 3.65 | 5.84 | 1.47 | 1.71 | |
| -20 (- 4) | 1549 | 390 | 454 | 239 | 3.10 | 4.62 | 6.49 | 1.64 | 1.90 | |
| -15 (+ 5) | 1919 | 484 | 562 | 266 | 3.43 | 5.75 | 7.21 | 1.82 | 2.11 | |
| -10 (+14) | 2335 | 588 | 684 | 291 | 3.74 | 7.03 | 8.01 | 2.02 | 2.35 | |
| -5 (+23) | 2797 | 705 | 820 | 313 | 4.01 | 8.46 | 8.93 | 2.25 | 2.62 | |
| 0 (+32) | 3303 | 832 | 968 | 331 | 4.22 | 10.04 | 9.98 | 2.52 | 2.92 | |

E - PERFORMANCE - CURVES

| TEST CONDITIONS: @100V4500RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 774 | 195 | 227 | 156 | 2.08 | 2.29 | 4.96 | 1.25 | 1.45 |
| -35 | (-31) | 982 | 247 | 288 | 175 | 2.32 | 2.91 | 5.59 | 1.41 | 1.64 |
| -30 | (-22) | 1219 | 307 | 357 | 193 | 2.53 | 3.61 | 6.32 | 1.59 | 1.85 |
| -25 | (-13) | 1494 | 376 | 438 | 209 | 2.73 | 4.44 | 7.16 | 1.80 | 2.10 |
| -20 | (- 4) | 1817 | 458 | 532 | 223 | 2.91 | 5.42 | 8.15 | 2.05 | 2.39 |
| -15 | (+ 5) | 2196 | 553 | 643 | 237 | 3.07 | 6.58 | 9.29 | 2.34 | 2.72 |
| -10 | (+14) | 2640 | 665 | 774 | 249 | 3.22 | 7.95 | 10.63 | 2.68 | 3.11 |
| -5 | (+23) | 3159 | 796 | 926 | 260 | 3.35 | 9.56 | 12.17 | 3.07 | 3.57 |
| 0 | (+32) | 3763 | 948 | 1103 | 270 | 3.47 | 11.44 | 13.94 | 3.51 | 4.08 |

| TEST CONDITIONS: @100V4500RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 747 | 188 | 219 | 160 | 2.12 | 2.20 | 4.69 | 1.18 | 1.37 |
| -35 | (-31) | 948 | 239 | 278 | 182 | 2.40 | 2.80 | 5.21 | 1.31 | 1.53 |
| -30 | (-22) | 1173 | 296 | 344 | 203 | 2.65 | 3.48 | 5.78 | 1.46 | 1.69 |
| -25 | (-13) | 1431 | 361 | 419 | 222 | 2.89 | 4.25 | 6.44 | 1.62 | 1.89 |
| -20 | (- 4) | 1731 | 436 | 507 | 240 | 3.12 | 5.16 | 7.20 | 1.81 | 2.11 |
| -15 | (+ 5) | 2081 | 524 | 610 | 257 | 3.32 | 6.23 | 8.08 | 2.04 | 2.37 |
| -10 | (+14) | 2492 | 628 | 730 | 273 | 3.52 | 7.50 | 9.12 | 2.30 | 2.67 |
| -5 | (+23) | 2972 | 749 | 871 | 288 | 3.69 | 8.99 | 10.32 | 2.60 | 3.02 |
| 0 | (+32) | 3531 | 890 | 1035 | 302 | 3.86 | 10.73 | 11.72 | 2.95 | 3.43 |

| TEST CONDITIONS: @100V4500RPM | | ASHRAE32 Fan | | | (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] |
| -40 | (-40) | 709 | 179 | 208 | 163 | 2.16 | 2.09 | 4.34 | 1.09 | 1.27 |
| -35 | (-31) | 907 | 229 | 266 | 188 | 2.47 | 2.69 | 4.82 | 1.21 | 1.41 |
| -30 | (-22) | 1125 | 283 | 330 | 212 | 2.76 | 3.34 | 5.32 | 1.34 | 1.56 |
| -25 | (-13) | 1369 | 345 | 401 | 234 | 3.04 | 4.07 | 5.87 | 1.48 | 1.72 |
| -20 | (- 4) | 1650 | 416 | 484 | 255 | 3.30 | 4.92 | 6.49 | 1.63 | 1.90 |
| -15 | (+ 5) | 1977 | 498 | 579 | 275 | 3.55 | 5.92 | 7.19 | 1.81 | 2.11 |
| -10 | (+14) | 2358 | 594 | 691 | 294 | 3.78 | 7.09 | 8.01 | 2.02 | 2.35 |
| -5 | (+23) | 2803 | 706 | 821 | 313 | 4.00 | 8.48 | 8.96 | 2.26 | 2.62 |
| 0 | (+32) | 3321 | 837 | 973 | 330 | 4.21 | 10.09 | 10.06 | 2.54 | 2.95 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------------------|------|--------------------------|
| 1 Base plate | Universal EG/F/AMEM version 2 | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 8.2 +0.12/-0.08 | [mm] | (0.323" +0.005"/-0.003") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Straight | | |
| 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 | Slanted 90° + 60° UP / 50° | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |