

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|------------------------|
| Denominación | FMF T408U |
| Voltage / Frecuencia nominal | 230 V 60-150 Hz |
| Código de Ingeniería | 513805012 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

| | | | |
|---|-------------------------------------|-----------------------------------|----------------|
| 1 Tipo | Compresor recíproco | | |
| 2 Refrigerante | R-290 | | |
| 3 Voltaje y frecuencia nominal | 230 / 60-150 | [V / Hz] | |
| 4 Tipo de aplicación | | | |
| 4.1 Rango de temperatura de evaporación | -40°C para 0°C | (-40°F para 32°F) | |
| 5 Tipo de motor | BPM | | |
| 6 Torque de Arranque | HST - Alto torque de arranque | | |
| 7 Elemento de control | Tubo capilar o Válvula de expansión | | |
| 8 Enfriamiento del compresor | Rango de voltaje de operación | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Temperatura ambiente) | Forzada | 103 para 140 V | 103 para 140 V |
| 8.2 LBP (43°C Temperatura ambiente) | Forzada | 103 para 140 V | 103 para 140 V |
| 8.3 HBP (32°C Temperatura ambiente) | - | - | - |
| 8.4 HBP (43°C Temperatura ambiente) | - | - | - |
| 9 Máxima temperatura de condensación | | | |
| 9.1 Operación | 18.4 | [kgf/cm ²] (262 psig) | / °C - °F |
| 9.2 Pico | 20.6 | [kgf/cm ²] (293 psig) | / °C - °F |
| 10 Máxima temperatura de las bobinas | 130 | [°C] | |

B - DATOS MECÁNICOS

| | | |
|--------------------------------|---------------|----------------------------------|
| 1 Referencia Comercial | 1/2 | [hp] |
| 2 Desplazamiento | 7.95 | [cm ³] (0.485 cu.in) |
| 2.1 Diametro [mm] | 22.500 | |
| 2.2 Curso [mm] | 20.000 | |
| 3 Carga de aceite | 430 | [ml] (14.54 fl.oz.) |
| 3.1 Aceites aprobados | | |
| 3.2 Tipo/Viscosidad del aceite | ESTER / ISO22 | |
| 4 Peso (com carga de aceite) | 10.28 | [kg] (22.66 lb.) |
| 5 Carga de nitrógeno | - | [kgf/cm ²] |

C - DATOS ELÉCTRICOS

| | | |
|--|---------------------------------|---------------------------|
| 1 Voltaje nominal/Frecuencia/Numero de fases | 230 V 60-150 Hz 3 ~ (Trifásico) | |
| 2 Tipo de Dispositivo de Arranque | Inverter | |
| 2.1 Dispositivo de Arranque | CF05D01 X XX XX | |
| 3 Capacitor de Arranque | - | [µF(VAC minimo)] |
| 4 Capacitor de marcha | - | [µF(VAC minimo)] |
| 5 Protección del motor | INVERTER CF05D01 N X | |
| 6 Resistencia del motor - bobina arranque | 10.55 | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha | 10.55 | [Ω en 25°C (77°F)] +/- 8% |
| 8 LRA - Corriente com rotor trabado (50/60 Hz) | - | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (50/60 Hz) | - | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (50/60 Hz) | - | [A] - Medido según UL 984 |
| 11 Institutos de aprobación | CE - TUV - UKCA - UL - VDE | |

D - PERFORMANCE - DATOS CHECK POINT

| | | | | | | | | |
|---|----------|-----|--------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA: @115V1800RPM | | | ASHRAELBP32 Forzada | | Temperatura de evaporación (Temp. de condensación | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 877 | 221 | 257 | 138 | 1.87 | 2.61 | 6.35 | 1.60 | 1.86 |

| | | | | | | | | |
|---|----------|-----|--------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA: @115V2400RPM | | | ASHRAELBP32 Forzada | | Temperatura de evaporación (Temp. de condensación | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 1181 | 298 | 346 | 185 | 2.44 | 3.52 | 6.39 | 1.61 | 1.87 |

| | | | | | | | | |
|---|----------|-----|--------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA: @115V3000RPM | | | ASHRAELBP32 Forzada | | Temperatura de evaporación (Temp. de condensación | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 1505 | 379 | 441 | 238 | 3.07 | 4.48 | 6.34 | 1.60 | 1.86 |

| | | | | | | | | |
|---|----------|-----|--------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA: @115V3600RPM | | | ASHRAELBP32 Forzada | | Temperatura de evaporación (Temp. de condensación | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 1764 | 445 | 517 | 284 | 3.60 | 5.25 | 6.22 | 1.57 | 1.82 |

| | | | | | | | | |
|---|----------|-----|--------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA: @115V4500RPM | | | ASHRAELBP32 Forzada | | Temperatura de evaporación (Temp. de condensación | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 2235 | 563 | 655 | 372 | 4.63 | 6.65 | 6.01 | 1.51 | 1.76 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V1800RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 390 | 98 | 114 | 69 | 1.45 | 1.15 | 5.63 | 1.42 | 1.65 |
| -35 | (-31) | 543 | 137 | 159 | 87 | 1.53 | 1.61 | 6.26 | 1.58 | 1.83 |
| -30 | (-22) | 708 | 179 | 208 | 101 | 1.57 | 2.10 | 7.04 | 1.77 | 2.06 |
| -25 | (-13) | 893 | 225 | 262 | 112 | 1.58 | 2.66 | 8.02 | 2.02 | 2.35 |
| -20 | (- 4) | 1105 | 278 | 324 | 121 | 1.58 | 3.30 | 9.21 | 2.32 | 2.70 |
| -15 | (+ 5) | 1351 | 340 | 396 | 128 | 1.58 | 4.05 | 10.63 | 2.68 | 3.11 |
| -10 | (+14) | 1640 | 413 | 481 | 133 | 1.60 | 4.94 | 12.32 | 3.10 | 3.61 |
| -5 | (+23) | 1979 | 499 | 580 | 138 | 1.66 | 5.99 | 14.29 | 3.60 | 4.19 |
| 0 | (+32) | 2376 | 599 | 696 | 143 | 1.77 | 7.22 | 16.57 | 4.18 | 4.86 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V1800RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 355 | 89 | 104 | 73 | 1.59 | 1.05 | 4.90 | 1.23 | 1.43 |
| -35 | (-31) | 512 | 129 | 150 | 93 | 1.68 | 1.51 | 5.46 | 1.38 | 1.60 |
| -30 | (-22) | 678 | 171 | 199 | 110 | 1.72 | 2.01 | 6.12 | 1.54 | 1.79 |
| -25 | (-13) | 862 | 217 | 252 | 125 | 1.74 | 2.56 | 6.88 | 1.73 | 2.02 |
| -20 | (- 4) | 1070 | 270 | 314 | 137 | 1.75 | 3.19 | 7.78 | 1.96 | 2.28 |
| -15 | (+ 5) | 1311 | 330 | 384 | 147 | 1.76 | 3.93 | 8.83 | 2.23 | 2.59 |
| -10 | (+14) | 1593 | 401 | 467 | 157 | 1.80 | 4.79 | 10.07 | 2.54 | 2.95 |
| -5 | (+23) | 1923 | 484 | 563 | 167 | 1.87 | 5.81 | 11.51 | 2.90 | 3.37 |
| 0 | (+32) | 2308 | 582 | 676 | 177 | 2.00 | 7.02 | 13.19 | 3.32 | 3.86 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V1800RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 290 | 73 | 85 | 73 | 1.65 | 0.86 | 4.06 | 1.02 | 1.19 |
| -35 | (-31) | 451 | 114 | 132 | 96 | 1.75 | 1.33 | 4.71 | 1.19 | 1.38 |
| -30 | (-22) | 619 | 156 | 182 | 116 | 1.82 | 1.84 | 5.37 | 1.35 | 1.57 |
| -25 | (-13) | 803 | 202 | 235 | 133 | 1.86 | 2.39 | 6.06 | 1.53 | 1.78 |
| -20 | (- 4) | 1010 | 254 | 296 | 149 | 1.90 | 3.01 | 6.80 | 1.71 | 1.99 |
| -15 | (+ 5) | 1247 | 314 | 365 | 163 | 1.94 | 3.73 | 7.62 | 1.92 | 2.23 |
| -10 | (+14) | 1523 | 384 | 446 | 177 | 2.01 | 4.58 | 8.55 | 2.15 | 2.50 |
| -5 | (+23) | 1844 | 465 | 540 | 191 | 2.12 | 5.58 | 9.60 | 2.42 | 2.81 |
| 0 | (+32) | 2219 | 559 | 650 | 206 | 2.28 | 6.74 | 10.81 | 2.72 | 3.17 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 65°C (+149°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V1800RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 194 | 49 | 57 | 69 | 1.60 | 0.57 | 2.84 | 0.72 | 0.83 |
| -35 | (-31) | 361 | 91 | 106 | 94 | 1.75 | 1.07 | 3.71 | 0.94 | 1.09 |
| -30 | (-22) | 533 | 134 | 156 | 117 | 1.85 | 1.58 | 4.51 | 1.14 | 1.32 |
| -25 | (-13) | 718 | 181 | 210 | 137 | 1.94 | 2.13 | 5.26 | 1.33 | 1.54 |
| -20 | (- 4) | 924 | 233 | 271 | 156 | 2.03 | 2.75 | 5.99 | 1.51 | 1.75 |
| -15 | (+ 5) | 1158 | 292 | 339 | 174 | 2.12 | 3.47 | 6.71 | 1.69 | 1.97 |
| -10 | (+14) | 1429 | 360 | 419 | 192 | 2.24 | 4.30 | 7.47 | 1.88 | 2.19 |
| -5 | (+23) | 1743 | 439 | 511 | 211 | 2.40 | 5.27 | 8.26 | 2.08 | 2.42 |
| 0 | (+32) | 2109 | 531 | 618 | 230 | 2.62 | 6.41 | 9.14 | 2.30 | 2.68 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3000RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 580 | 146 | 170 | 119 | 1.72 | 1.71 | 4.90 | 1.24 | 1.44 |
| -35 | (-31) | 867 | 218 | 254 | 149 | 2.12 | 2.57 | 5.75 | 1.45 | 1.69 |
| -30 | (-22) | 1162 | 293 | 341 | 175 | 2.34 | 3.45 | 6.61 | 1.67 | 1.94 |
| -25 | (-13) | 1481 | 373 | 434 | 197 | 2.45 | 4.40 | 7.52 | 1.90 | 2.20 |
| -20 | (- 4) | 1834 | 462 | 538 | 216 | 2.50 | 5.47 | 8.54 | 2.15 | 2.50 |
| -15 | (+ 5) | 2237 | 564 | 656 | 232 | 2.52 | 6.70 | 9.71 | 2.45 | 2.85 |
| -10 | (+14) | 2702 | 681 | 792 | 245 | 2.58 | 8.13 | 11.09 | 2.79 | 3.25 |
| -5 | (+23) | 3242 | 817 | 950 | 255 | 2.72 | 9.81 | 12.72 | 3.21 | 3.73 |
| 0 | (+32) | 3870 | 975 | 1134 | 262 | 2.99 | 11.77 | 14.65 | 3.69 | 4.29 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3000RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 593 | 149 | 174 | 132 | 2.00 | 1.75 | 4.54 | 1.14 | 1.33 |
| -35 | (-31) | 864 | 218 | 253 | 162 | 2.41 | 2.56 | 5.29 | 1.33 | 1.55 |
| -30 | (-22) | 1146 | 289 | 336 | 190 | 2.66 | 3.40 | 6.00 | 1.51 | 1.76 |
| -25 | (-13) | 1452 | 366 | 425 | 215 | 2.79 | 4.32 | 6.72 | 1.69 | 1.97 |
| -20 | (- 4) | 1795 | 452 | 526 | 239 | 2.87 | 5.35 | 7.49 | 1.89 | 2.19 |
| -15 | (+ 5) | 2188 | 551 | 641 | 261 | 2.93 | 6.55 | 8.36 | 2.11 | 2.45 |
| -10 | (+14) | 2645 | 667 | 775 | 281 | 3.03 | 7.96 | 9.39 | 2.37 | 2.75 |
| -5 | (+23) | 3179 | 801 | 932 | 299 | 3.22 | 9.61 | 10.63 | 2.68 | 3.11 |
| 0 | (+32) | 3803 | 958 | 1114 | 316 | 3.54 | 11.56 | 12.11 | 3.05 | 3.55 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3000RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 563 | 142 | 165 | 139 | 2.12 | 1.66 | 4.09 | 1.03 | 1.20 |
| -35 | (-31) | 822 | 207 | 241 | 170 | 2.55 | 2.43 | 4.83 | 1.22 | 1.42 |
| -30 | (-22) | 1093 | 275 | 320 | 200 | 2.83 | 3.24 | 5.48 | 1.38 | 1.61 |
| -25 | (-13) | 1389 | 350 | 407 | 229 | 3.00 | 4.13 | 6.09 | 1.54 | 1.79 |
| -20 | (- 4) | 1724 | 434 | 505 | 257 | 3.11 | 5.14 | 6.71 | 1.69 | 1.96 |
| -15 | (+ 5) | 2111 | 532 | 619 | 285 | 3.22 | 6.32 | 7.37 | 1.86 | 2.16 |
| -10 | (+14) | 2563 | 646 | 751 | 312 | 3.37 | 7.71 | 8.14 | 2.05 | 2.39 |
| -5 | (+23) | 3093 | 779 | 906 | 339 | 3.61 | 9.35 | 9.07 | 2.28 | 2.66 |
| 0 | (+32) | 3714 | 936 | 1088 | 366 | 4.00 | 11.29 | 10.19 | 2.57 | 2.99 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 65°C (+149°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3000RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 492 | 124 | 144 | 143 | 2.10 | 1.45 | 3.40 | 0.86 | 1.00 |
| -35 | (-31) | 741 | 187 | 217 | 174 | 2.55 | 2.19 | 4.23 | 1.07 | 1.24 |
| -30 | (-22) | 1003 | 253 | 294 | 206 | 2.86 | 2.97 | 4.91 | 1.24 | 1.44 |
| -25 | (-13) | 1292 | 326 | 379 | 238 | 3.07 | 3.84 | 5.50 | 1.38 | 1.61 |
| -20 | (- 4) | 1622 | 409 | 475 | 271 | 3.23 | 4.84 | 6.04 | 1.52 | 1.77 |
| -15 | (+ 5) | 2005 | 505 | 587 | 305 | 3.39 | 6.00 | 6.59 | 1.66 | 1.93 |
| -10 | (+14) | 2454 | 618 | 719 | 340 | 3.60 | 7.38 | 7.19 | 1.81 | 2.11 |
| -5 | (+23) | 2983 | 752 | 874 | 376 | 3.90 | 9.02 | 7.89 | 1.99 | 2.31 |
| 0 | (+32) | 3605 | 908 | 1056 | 413 | 4.36 | 10.95 | 8.74 | 2.20 | 2.56 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3600RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 844 | 213 | 247 | 173 | 2.03 | 2.49 | 4.86 | 1.23 | 1.43 |
| -35 | (-31) | 1077 | 271 | 315 | 194 | 2.39 | 3.19 | 5.57 | 1.40 | 1.63 |
| -30 | (-22) | 1379 | 348 | 404 | 217 | 2.71 | 4.09 | 6.37 | 1.61 | 1.87 |
| -25 | (-13) | 1752 | 441 | 513 | 241 | 3.00 | 5.21 | 7.27 | 1.83 | 2.13 |
| -20 | (- 4) | 2196 | 553 | 643 | 266 | 3.27 | 6.55 | 8.28 | 2.09 | 2.42 |
| -15 | (+ 5) | 2711 | 683 | 794 | 290 | 3.51 | 8.12 | 9.38 | 2.36 | 2.75 |
| -10 | (+14) | 3298 | 831 | 966 | 313 | 3.74 | 9.93 | 10.58 | 2.67 | 3.10 |
| -5 | (+23) | 3957 | 997 | 1160 | 333 | 3.97 | 11.97 | 11.89 | 3.00 | 3.48 |
| 0 | (+32) | 4690 | 1182 | 1374 | 351 | 4.18 | 14.26 | 13.30 | 3.35 | 3.90 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3600RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 812 | 205 | 238 | 177 | 2.17 | 2.40 | 4.60 | 1.16 | 1.35 |
| -35 | (-31) | 1042 | 262 | 305 | 201 | 2.57 | 3.08 | 5.18 | 1.31 | 1.52 |
| -30 | (-22) | 1337 | 337 | 392 | 229 | 2.95 | 3.96 | 5.83 | 1.47 | 1.71 |
| -25 | (-13) | 1699 | 428 | 498 | 258 | 3.29 | 5.05 | 6.56 | 1.65 | 1.92 |
| -20 | (- 4) | 2129 | 537 | 624 | 288 | 3.61 | 6.35 | 7.35 | 1.85 | 2.15 |
| -15 | (+ 5) | 2627 | 662 | 770 | 319 | 3.92 | 7.87 | 8.21 | 2.07 | 2.41 |
| -10 | (+14) | 3193 | 805 | 936 | 349 | 4.21 | 9.61 | 9.15 | 2.31 | 2.68 |
| -5 | (+23) | 3828 | 965 | 1122 | 378 | 4.50 | 11.58 | 10.15 | 2.56 | 2.98 |
| 0 | (+32) | 4533 | 1142 | 1328 | 405 | 4.79 | 13.78 | 11.23 | 2.83 | 3.29 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3600RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 765 | 193 | 224 | 182 | 2.22 | 2.26 | 4.23 | 1.07 | 1.24 |
| -35 | (-31) | 989 | 249 | 290 | 209 | 2.67 | 2.93 | 4.76 | 1.20 | 1.40 |
| -30 | (-22) | 1275 | 321 | 374 | 239 | 3.09 | 3.78 | 5.33 | 1.34 | 1.56 |
| -25 | (-13) | 1625 | 409 | 476 | 273 | 3.48 | 4.83 | 5.94 | 1.50 | 1.74 |
| -20 | (- 4) | 2038 | 514 | 597 | 308 | 3.86 | 6.08 | 6.58 | 1.66 | 1.93 |
| -15 | (+ 5) | 2516 | 634 | 737 | 345 | 4.22 | 7.54 | 7.27 | 1.83 | 2.13 |
| -10 | (+14) | 3059 | 771 | 896 | 381 | 4.57 | 9.20 | 8.00 | 2.02 | 2.35 |
| -5 | (+23) | 3668 | 924 | 1075 | 418 | 4.92 | 11.09 | 8.78 | 2.21 | 2.57 |
| 0 | (+32) | 4343 | 1094 | 1273 | 453 | 5.27 | 13.20 | 9.59 | 2.42 | 2.81 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 65°C (+149°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V3600RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 703 | 177 | 206 | 189 | 2.18 | 2.07 | 3.69 | 0.93 | 1.08 |
| -35 | (-31) | 918 | 231 | 269 | 218 | 2.67 | 2.72 | 4.23 | 1.06 | 1.24 |
| -30 | (-22) | 1193 | 301 | 350 | 251 | 3.13 | 3.54 | 4.77 | 1.20 | 1.40 |
| -25 | (-13) | 1528 | 385 | 448 | 287 | 3.57 | 4.54 | 5.33 | 1.34 | 1.56 |
| -20 | (- 4) | 1923 | 485 | 564 | 327 | 3.99 | 5.74 | 5.90 | 1.49 | 1.73 |
| -15 | (+ 5) | 2379 | 600 | 697 | 368 | 4.41 | 7.12 | 6.48 | 1.63 | 1.90 |
| -10 | (+14) | 2897 | 730 | 849 | 411 | 4.82 | 8.71 | 7.07 | 1.78 | 2.07 |
| -5 | (+23) | 3477 | 876 | 1019 | 453 | 5.22 | 10.51 | 7.68 | 1.93 | 2.25 |
| 0 | (+32) | 4120 | 1038 | 1207 | 496 | 5.64 | 12.52 | 8.29 | 2.09 | 2.43 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V4500RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 1100 | 277 | 322 | 237 | 2.52 | 3.25 | 4.63 | 1.17 | 1.36 |
| -35 | (-31) | 1448 | 365 | 424 | 269 | 3.20 | 4.29 | 5.42 | 1.37 | 1.59 |
| -30 | (-22) | 1820 | 459 | 533 | 295 | 3.67 | 5.39 | 6.23 | 1.57 | 1.83 |
| -25 | (-13) | 2229 | 562 | 653 | 317 | 3.99 | 6.63 | 7.08 | 1.78 | 2.07 |
| -20 | (- 4) | 2691 | 678 | 789 | 337 | 4.20 | 8.03 | 7.97 | 2.01 | 2.34 |
| -15 | (+ 5) | 3222 | 812 | 944 | 357 | 4.37 | 9.66 | 8.94 | 2.25 | 2.62 |
| -10 | (+14) | 3838 | 967 | 1125 | 379 | 4.55 | 11.56 | 9.99 | 2.52 | 2.93 |
| -5 | (+23) | 4555 | 1148 | 1335 | 406 | 4.79 | 13.78 | 11.14 | 2.81 | 3.26 |
| 0 | (+32) | 5386 | 1357 | 1578 | 438 | 5.15 | 16.37 | 12.41 | 3.13 | 3.64 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V4500RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 1018 | 257 | 298 | 235 | 2.67 | 3.01 | 4.30 | 1.08 | 1.26 |
| -35 | (-31) | 1392 | 351 | 408 | 277 | 3.39 | 4.12 | 5.02 | 1.27 | 1.47 |
| -30 | (-22) | 1771 | 446 | 519 | 311 | 3.90 | 5.25 | 5.73 | 1.44 | 1.68 |
| -25 | (-13) | 2170 | 547 | 636 | 340 | 4.26 | 6.45 | 6.44 | 1.62 | 1.89 |
| -20 | (- 4) | 2606 | 657 | 764 | 366 | 4.52 | 7.77 | 7.17 | 1.81 | 2.10 |
| -15 | (+ 5) | 3094 | 780 | 907 | 389 | 4.74 | 9.27 | 7.95 | 2.00 | 2.33 |
| -10 | (+14) | 3649 | 919 | 1069 | 414 | 4.96 | 10.98 | 8.78 | 2.21 | 2.57 |
| -5 | (+23) | 4287 | 1080 | 1256 | 440 | 5.25 | 12.96 | 9.68 | 2.44 | 2.84 |
| 0 | (+32) | 5023 | 1266 | 1472 | 472 | 5.66 | 15.27 | 10.68 | 2.69 | 3.13 |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|------|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @115V4500RPM | | Forzada | | | | | | | | |
| Temperatura de evaporación | | Capacidad de refrigeración | | | Consumo de potencia | Consumo de corriente | Flujo de masa | RANGO DE EFICIENCIA | | |
| | | +/- 5% | | | +/- 5% | +/- 5% | +/- 5% | +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 865 | 218 | 254 | 231 | 2.92 | 2.55 | 3.75 | 0.95 | 1.10 |
| -35 | (-31) | 1278 | 322 | 374 | 283 | 3.65 | 3.78 | 4.47 | 1.13 | 1.31 |
| -30 | (-22) | 1679 | 423 | 492 | 326 | 4.17 | 4.98 | 5.14 | 1.30 | 1.51 |
| -25 | (-13) | 2083 | 525 | 610 | 362 | 4.54 | 6.19 | 5.79 | 1.46 | 1.70 |
| -20 | (- 4) | 2506 | 632 | 734 | 393 | 4.81 | 7.48 | 6.43 | 1.62 | 1.89 |
| -15 | (+ 5) | 2964 | 747 | 869 | 421 | 5.04 | 8.88 | 7.09 | 1.79 | 2.08 |
| -10 | (+14) | 3472 | 875 | 1017 | 447 | 5.28 | 10.45 | 7.77 | 1.96 | 2.28 |
| -5 | (+23) | 4046 | 1020 | 1186 | 474 | 5.59 | 12.23 | 8.50 | 2.14 | 2.49 |
| 0 | (+32) | 4701 | 1185 | 1377 | 504 | 6.02 | 14.29 | 9.30 | 2.34 | 2.72 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: @115V4500RPM | | ASHRAE32 Forzada | | | (Temp. de condensación 65°C (+149°F)) | | | | | |
|--|-------|--------------------------------------|----------|------|---------------------------------------|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| Temperatura de evaporación | | Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -40 | (-40) | 642 | 162 | 188 | 226 | 3.28 | 1.89 | 2.94 | 0.74 | 0.86 |
| -35 | (-31) | 1108 | 279 | 325 | 289 | 3.98 | 3.28 | 3.73 | 0.94 | 1.09 |
| -30 | (-22) | 1544 | 389 | 453 | 340 | 4.48 | 4.58 | 4.44 | 1.12 | 1.30 |
| -25 | (-13) | 1967 | 496 | 577 | 383 | 4.82 | 5.85 | 5.10 | 1.29 | 1.49 |
| -20 | (- 4) | 2392 | 603 | 701 | 419 | 5.08 | 7.14 | 5.73 | 1.44 | 1.68 |
| -15 | (+ 5) | 2834 | 714 | 831 | 451 | 5.29 | 8.49 | 6.34 | 1.60 | 1.86 |
| -10 | (+14) | 3310 | 834 | 970 | 479 | 5.52 | 9.95 | 6.95 | 1.75 | 2.04 |
| -5 | (+23) | 3833 | 966 | 1123 | 507 | 5.81 | 11.59 | 7.57 | 1.91 | 2.22 |
| 0 | (+32) | 4421 | 1114 | 1295 | 536 | 6.23 | 13.44 | 8.23 | 2.07 | 2.41 |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|-------------------------------|------|--------------------------|
| 1 Placa base | Universal EG/F/AMEM version 2 | | |
| 2 Soporte de badeja | No | | |
| 3 Tubos | | | |
| 3.1 SUCCIÓN | 8.2 +0.12/-0.08 | [mm] | (0.323" +0.005"/-0.003") |
| 3.1.1 Material | Cobre | | |
| 3.1.2 Forma | Recto | | |
| 3.2 DESCARGA | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.2.1 Material | Cobre | | |
| 3.2.2 Forma | Recto | | |
| 3.3 PROCESO | 6.5 +0.12/-0.08 | [mm] | (0.256" +0.005"/-0.003") |
| 3.3.1 Material | Cobre | | |
| 3.3.2 Forma | Recto | | |
| 3.4 Tubo enfriador de aceite (Cobre) | No | [mm] | |
| 3.5 Sellado del tudo | Tampa de Gomma | | |