

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|------------------------|
| Denominación | VES F5C |
| Voltage / Frecuencia nominal | 230 V 32-150 Hz |
| Código de Ingeniería | 513907270 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

| | | | |
|---|-------------------------------|-----------------------------------|----------------|
| 1 Tipo | Compresor recíproco | | |
| 2 Refrigerante | R-600a | | |
| 3 Voltaje y frecuencia nominal | 230 / 32-150 | [V / Hz] | |
| 4 Tipo de aplicación | | | |
| 4.1 Rango de temperatura de evaporación | -35°C para 0°C | (-31°F para 32°F) | |
| 5 Tipo de motor | BPM | | |
| 6 Torque de Arranque | LST - Bajo Torque de Arranque | | |
| 7 Elemento de control | Tubo capilar | | |
| 8 Enfriamiento del compresor | Rango de voltaje de operación | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Temperatura ambiente) | Estática | 160 para 264 V | 160 para 264 V |
| 8.2 LBP (43°C Temperatura ambiente) | Estática | 160 para 264 V | 160 para 264 V |
| 8.3 HBP (32°C Temperatura ambiente) | - | - | - |
| 8.4 HBP (43°C Temperatura ambiente) | - | - | - |
| 9 Máxima temperatura de condensación | | | |
| 9.1 Operación | 6.9 | [kgf/cm ²] (98 psig) | / °C - °F |
| 9.2 Pico | 7.8 | [kgf/cm ²] (111 psig) | / °C - °F |
| 10 Máxima temperatura de las bobinas | 130 | [°C] | |

B - DATOS MECÁNICOS

| | | |
|--------------------------------|----------------|----------------------------------|
| 1 Referencia Comercial | 1/5 | [hp] |
| 2 Desplazamiento | 5.19 | [cm ³] (0.317 cu.in) |
| 2.1 Diametro [mm] | 21.000 | |
| 2.2 Curso [mm] | 15.000 | |
| 3 Carga de aceite | 205 | [ml] (6.93 fl.oz.) |
| 3.1 Aceites aprobados | | |
| 3.2 Tipo/Viscosidad del aceite | ALQUILB / ISO5 | |
| 4 Peso (com carga de aceite) | 6.3 | [kg] (13.89 lb.) |
| 5 Carga de nitrógeno | - | [kgf/cm ²] |

C - DATOS ELÉCTRICOS

| | | |
|---|----------------------------------|---------------------------|
| 1 Voltaje nominal/Frecuencia/Numero de fases | 230 V 31.7-150 Hz 3~ (Trifásico) | |
| 2 Tipo de Dispositivo de Arranque | Inverter | |
| 2.1 Dispositivo de Arranque | VESF 2456 XXX X | |
| 3 Capacitor de Arranque | - | [µF(VAC minimo)] |
| 4 Capacitor de marcha | - | [µF(VAC minimo)] |
| 5 Protección del motor | INVERTER VES 2456X | |
| 6 Resistencia del motor - bobina arranque | [Ω en 25°C (77°F)] +/- 8% | |
| 7 Resistencia del motor - bobina marcha | [Ω en 25°C (77°F)] +/- 8% | |
| 8 LRA - Corriente com rotor trabado (40/150 Hz) | 2.10 | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (40/150 Hz) | - | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (40/150 Hz) | - | [A] - Medido según UL 984 |
| 11 Institutos de aprobación | | |

D - PERFORMANCE - DATOS CHECK POINT

| CONDICIONES DE PRUEBA: @220V1300RPM | | | CECOMAFLBP Estática | | Temperatura de evaporación (Temp. de condensación | | -25°C (-13°F) 55°C (131°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] | |
| 85 | 21 | 25 | 18 | 0.18 | 0.32 | 4.70 | 1.18 | 1.38 | |

| CONDICIONES DE PRUEBA: @220V4500RPM | | | CECOMAFLBP Estática | | Temperatura de evaporación (Temp. de condensación | | -25°C (-13°F) 55°C (131°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] | |
| 300 | 76 | 88 | 65 | 0.51 | 1.14 | 4.63 | 1.17 | 1.36 | |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: @220V950RPM | | | CECOMAF Estática | | (Temp. de condensación 35°C (+95°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] |
| -35 | (-31) | 47 | 12 | 14 | 9 | 0.13 | 0.15 | 5.25 | 1.32 | 1.54 |
| -30 | (-22) | 68 | 17 | 20 | 11 | 0.14 | 0.22 | 6.42 | 1.62 | 1.88 |
| -25 | (-13) | 93 | 23 | 27 | 12 | 0.15 | 0.30 | 7.58 | 1.91 | 2.22 |
| -20 | (- 4) | 123 | 31 | 36 | 14 | 0.16 | 0.39 | 8.80 | 2.22 | 2.58 |
| -15 | (+ 5) | 157 | 40 | 46 | 16 | 0.17 | 0.51 | 10.18 | 2.56 | 2.98 |
| -10 | (+14) | 198 | 50 | 58 | 17 | 0.18 | 0.64 | 11.77 | 2.97 | 3.45 |
| -5 | (+23) | 245 | 62 | 72 | 18 | 0.18 | 0.79 | 13.67 | 3.44 | 4.01 |
| 0 | (+32) | 300 | 76 | 88 | 18 | 0.18 | 0.97 | 15.94 | 4.02 | 4.67 |

| CONDICIONES DE PRUEBA: @220V950RPM | | | CECOMAF Estática | | (Temp. de condensación 45°C (+113°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] |
| -35 | (-31) | 34 | 9 | 10 | 9 | 0.14 | 0.12 | 3.90 | 0.98 | 1.14 |
| -30 | (-22) | 50 | 13 | 15 | 10 | 0.15 | 0.17 | 4.75 | 1.20 | 1.39 |
| -25 | (-13) | 70 | 18 | 20 | 12 | 0.16 | 0.24 | 5.58 | 1.41 | 1.63 |
| -20 | (- 4) | 94 | 24 | 28 | 15 | 0.17 | 0.33 | 6.45 | 1.63 | 1.89 |
| -15 | (+ 5) | 125 | 31 | 37 | 17 | 0.18 | 0.43 | 7.45 | 1.88 | 2.18 |
| -10 | (+14) | 161 | 41 | 47 | 19 | 0.19 | 0.56 | 8.66 | 2.18 | 2.54 |
| -5 | (+23) | 204 | 52 | 60 | 20 | 0.20 | 0.72 | 10.16 | 2.56 | 2.98 |
| 0 | (+32) | 255 | 64 | 75 | 21 | 0.21 | 0.90 | 12.01 | 3.03 | 3.52 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|--------------------------------------|----------|-----|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| @220V950RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 25 | 6 | 7 | 9 | 0.14 | 0.10 | 2.89 | 0.73 | 0.85 |
| -30 | (-22) | 36 | 9 | 10 | 10 | 0.15 | 0.14 | 3.50 | 0.88 | 1.03 |
| -25 | (-13) | 50 | 13 | 15 | 13 | 0.16 | 0.19 | 4.07 | 1.03 | 1.19 |
| -20 | (- 4) | 70 | 18 | 20 | 15 | 0.17 | 0.27 | 4.67 | 1.18 | 1.37 |
| -15 | (+ 5) | 95 | 24 | 28 | 17 | 0.19 | 0.36 | 5.39 | 1.36 | 1.58 |
| -10 | (+14) | 127 | 32 | 37 | 20 | 0.21 | 0.49 | 6.29 | 1.58 | 1.84 |
| -5 | (+23) | 166 | 42 | 49 | 22 | 0.22 | 0.64 | 7.46 | 1.88 | 2.19 |
| 0 | (+32) | 213 | 54 | 62 | 24 | 0.23 | 0.82 | 8.98 | 2.26 | 2.63 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|--------------------------------------|----------|-----|--|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| @220V1300RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 71 | 18 | 21 | 12 | 0.13 | 0.23 | 5.99 | 1.51 | 1.76 |
| -30 | (-22) | 96 | 24 | 28 | 14 | 0.14 | 0.31 | 6.84 | 1.72 | 2.01 |
| -25 | (-13) | 128 | 32 | 38 | 16 | 0.16 | 0.41 | 7.87 | 1.98 | 2.31 |
| -20 | (- 4) | 168 | 42 | 49 | 19 | 0.17 | 0.54 | 9.10 | 2.29 | 2.67 |
| -15 | (+ 5) | 215 | 54 | 63 | 20 | 0.18 | 0.69 | 10.56 | 2.66 | 3.09 |
| -10 | (+14) | 271 | 68 | 80 | 22 | 0.20 | 0.88 | 12.30 | 3.10 | 3.60 |
| -5 | (+23) | 337 | 85 | 99 | 23 | 0.21 | 1.09 | 14.34 | 3.61 | 4.20 |
| 0 | (+32) | 412 | 104 | 121 | 24 | 0.22 | 1.34 | 16.71 | 4.21 | 4.90 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|--------------------------------------|----------|-----|---|--------------------------------|-------------------------|-------------------------------|-----------|-------|
| @220V1300RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 52 | 13 | 15 | 12 | 0.15 | 0.18 | 4.31 | 1.09 | 1.26 |
| -30 | (-22) | 73 | 18 | 21 | 15 | 0.17 | 0.25 | 5.01 | 1.26 | 1.47 |
| -25 | (-13) | 100 | 25 | 29 | 17 | 0.18 | 0.35 | 5.79 | 1.46 | 1.70 |
| -20 | (- 4) | 134 | 34 | 39 | 20 | 0.19 | 0.47 | 6.68 | 1.68 | 1.96 |
| -15 | (+ 5) | 175 | 44 | 51 | 23 | 0.21 | 0.61 | 7.72 | 1.95 | 2.26 |
| -10 | (+14) | 224 | 57 | 66 | 25 | 0.22 | 0.79 | 8.94 | 2.25 | 2.62 |
| -5 | (+23) | 282 | 71 | 83 | 27 | 0.24 | 0.99 | 10.38 | 2.61 | 3.04 |
| 0 | (+32) | 348 | 88 | 102 | 29 | 0.26 | 1.22 | 12.05 | 3.04 | 3.53 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---|---------------|---------------------|-----------|-------|--|
| @220V1300RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 41 | 10 | 12 | 12 | 0.16 | 0.16 | 3.38 | 0.85 | 0.99 | |
| -30 (-22) | 58 | 15 | 17 | 15 | 0.18 | 0.22 | 4.03 | 1.02 | 1.18 | |
| -25 (-13) | 81 | 21 | 24 | 18 | 0.19 | 0.31 | 4.67 | 1.18 | 1.37 | |
| -20 (- 4) | 110 | 28 | 32 | 21 | 0.21 | 0.42 | 5.33 | 1.34 | 1.56 | |
| -15 (+ 5) | 145 | 37 | 43 | 24 | 0.23 | 0.56 | 6.04 | 1.52 | 1.77 | |
| -10 (+14) | 187 | 47 | 55 | 27 | 0.25 | 0.72 | 6.85 | 1.72 | 2.01 | |
| -5 (+23) | 237 | 60 | 69 | 30 | 0.27 | 0.91 | 7.77 | 1.96 | 2.28 | |
| 0 (+32) | 294 | 74 | 86 | 33 | 0.29 | 1.14 | 8.84 | 2.23 | 2.59 | |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|--|---------------|---------------------|-----------|-------|--|
| @220V1600RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 90 | 23 | 26 | 15 | 0.16 | 0.29 | 6.03 | 1.52 | 1.77 | |
| -30 (-22) | 120 | 30 | 35 | 17 | 0.18 | 0.38 | 6.85 | 1.73 | 2.01 | |
| -25 (-13) | 158 | 40 | 46 | 20 | 0.20 | 0.51 | 7.82 | 1.97 | 2.29 | |
| -20 (- 4) | 205 | 52 | 60 | 23 | 0.22 | 0.66 | 8.98 | 2.26 | 2.63 | |
| -15 (+ 5) | 262 | 66 | 77 | 25 | 0.23 | 0.84 | 10.36 | 2.61 | 3.04 | |
| -10 (+14) | 329 | 83 | 96 | 28 | 0.25 | 1.06 | 12.01 | 3.03 | 3.52 | |
| -5 (+23) | 406 | 102 | 119 | 29 | 0.25 | 1.31 | 13.96 | 3.52 | 4.09 | |
| 0 (+32) | 493 | 124 | 145 | 29 | 0.25 | 1.60 | 16.25 | 4.10 | 4.76 | |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---|---------------|---------------------|-----------|-------|--|
| @220V1600RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 61 | 15 | 18 | 15 | 0.17 | 0.21 | 4.21 | 1.06 | 1.23 | |
| -30 (-22) | 88 | 22 | 26 | 18 | 0.19 | 0.31 | 5.01 | 1.26 | 1.47 | |
| -25 (-13) | 123 | 31 | 36 | 21 | 0.21 | 0.43 | 5.88 | 1.48 | 1.72 | |
| -20 (- 4) | 167 | 42 | 49 | 24 | 0.23 | 0.58 | 6.86 | 1.73 | 2.01 | |
| -15 (+ 5) | 221 | 56 | 65 | 27 | 0.25 | 0.77 | 7.99 | 2.01 | 2.34 | |
| -10 (+14) | 283 | 71 | 83 | 30 | 0.27 | 0.99 | 9.32 | 2.35 | 2.73 | |
| -5 (+23) | 356 | 90 | 104 | 33 | 0.29 | 1.25 | 10.88 | 2.74 | 3.19 | |
| 0 (+32) | 439 | 111 | 129 | 35 | 0.30 | 1.55 | 12.70 | 3.20 | 3.72 | |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---|----------------------|---------------|---------------------|-----------|-------|
| @220V1600RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 49 | 12 | 14 | 15 | 0.17 | 0.19 | 3.21 | 0.81 | 0.94 |
| -30 | (-22) | 69 | 17 | 20 | 18 | 0.19 | 0.26 | 3.87 | 0.97 | 1.13 |
| -25 | (-13) | 97 | 24 | 28 | 22 | 0.21 | 0.37 | 4.52 | 1.14 | 1.33 |
| -20 | (- 4) | 133 | 34 | 39 | 26 | 0.23 | 0.51 | 5.22 | 1.32 | 1.53 |
| -15 | (+ 5) | 178 | 45 | 52 | 30 | 0.26 | 0.68 | 6.00 | 1.51 | 1.76 |
| -10 | (+14) | 233 | 59 | 68 | 34 | 0.29 | 0.89 | 6.89 | 1.74 | 2.02 |
| -5 | (+23) | 297 | 75 | 87 | 37 | 0.32 | 1.14 | 7.94 | 2.00 | 2.33 |
| 0 | (+32) | 372 | 94 | 109 | 41 | 0.34 | 1.43 | 9.19 | 2.32 | 2.69 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|--|----------------------|---------------|---------------------|-----------|-------|
| @220V2000RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 107 | 27 | 31 | 19 | 0.18 | 0.34 | 5.71 | 1.44 | 1.67 |
| -30 | (-22) | 148 | 37 | 43 | 22 | 0.21 | 0.48 | 6.67 | 1.68 | 1.96 |
| -25 | (-13) | 198 | 50 | 58 | 26 | 0.24 | 0.64 | 7.74 | 1.95 | 2.27 |
| -20 | (- 4) | 258 | 65 | 76 | 29 | 0.26 | 0.83 | 8.95 | 2.26 | 2.62 |
| -15 | (+ 5) | 331 | 83 | 97 | 32 | 0.28 | 1.06 | 10.36 | 2.61 | 3.04 |
| -10 | (+14) | 417 | 105 | 122 | 35 | 0.30 | 1.35 | 12.02 | 3.03 | 3.52 |
| -5 | (+23) | 519 | 131 | 152 | 37 | 0.31 | 1.68 | 13.97 | 3.52 | 4.09 |
| 0 | (+32) | 638 | 161 | 187 | 39 | 0.33 | 2.07 | 16.28 | 4.10 | 4.77 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---|----------------------|---------------|---------------------|-----------|-------|
| @220V2000RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 75 | 19 | 22 | 18 | 0.19 | 0.26 | 4.25 | 1.07 | 1.25 |
| -30 | (-22) | 114 | 29 | 33 | 22 | 0.22 | 0.40 | 5.15 | 1.30 | 1.51 |
| -25 | (-13) | 161 | 40 | 47 | 26 | 0.24 | 0.56 | 6.05 | 1.52 | 1.77 |
| -20 | (- 4) | 216 | 55 | 63 | 31 | 0.27 | 0.75 | 7.00 | 1.76 | 2.05 |
| -15 | (+ 5) | 283 | 71 | 83 | 35 | 0.29 | 0.99 | 8.06 | 2.03 | 2.36 |
| -10 | (+14) | 362 | 91 | 106 | 39 | 0.32 | 1.27 | 9.26 | 2.33 | 2.71 |
| -5 | (+23) | 456 | 115 | 133 | 43 | 0.35 | 1.60 | 10.67 | 2.69 | 3.13 |
| 0 | (+32) | 565 | 142 | 165 | 46 | 0.38 | 1.99 | 12.33 | 3.11 | 3.61 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @220V2000RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 59 | 15 | 17 | 18 | 0.19 | 0.22 | 3.15 | 0.79 | 0.92 |
| -30 | (-22) | 91 | 23 | 27 | 23 | 0.22 | 0.35 | 4.02 | 1.01 | 1.18 |
| -25 | (-13) | 130 | 33 | 38 | 27 | 0.25 | 0.49 | 4.80 | 1.21 | 1.41 |
| -20 | (- 4) | 176 | 44 | 52 | 32 | 0.28 | 0.67 | 5.54 | 1.40 | 1.62 |
| -15 | (+ 5) | 232 | 58 | 68 | 37 | 0.31 | 0.89 | 6.29 | 1.58 | 1.84 |
| -10 | (+14) | 299 | 75 | 88 | 42 | 0.34 | 1.15 | 7.09 | 1.79 | 2.08 |
| -5 | (+23) | 379 | 96 | 111 | 47 | 0.38 | 1.46 | 7.99 | 2.01 | 2.34 |
| 0 | (+32) | 474 | 119 | 139 | 52 | 0.43 | 1.83 | 9.05 | 2.28 | 2.65 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|--------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @220V3000RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 155 | 39 | 46 | 29 | 0.24 | 0.50 | 5.40 | 1.36 | 1.58 |
| -30 | (-22) | 219 | 55 | 64 | 34 | 0.28 | 0.70 | 6.42 | 1.62 | 1.88 |
| -25 | (-13) | 294 | 74 | 86 | 39 | 0.32 | 0.94 | 7.47 | 1.88 | 2.19 |
| -20 | (- 4) | 382 | 96 | 112 | 44 | 0.35 | 1.23 | 8.60 | 2.17 | 2.52 |
| -15 | (+ 5) | 487 | 123 | 143 | 49 | 0.39 | 1.57 | 9.86 | 2.49 | 2.89 |
| -10 | (+14) | 613 | 154 | 180 | 54 | 0.43 | 1.98 | 11.30 | 2.85 | 3.31 |
| -5 | (+23) | 761 | 192 | 223 | 59 | 0.47 | 2.46 | 12.97 | 3.27 | 3.80 |
| 0 | (+32) | 936 | 236 | 274 | 63 | 0.51 | 3.04 | 14.91 | 3.76 | 4.37 |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|-------|----------------------------|----------|-----|---------------------------------------|----------------------|---------------|---------------------|-----------|-------|
| @220V3000RPM | | Estática | | | | | | | | |
| 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] |
| -35 | (-31) | 123 | 31 | 36 | 29 | 0.25 | 0.43 | 4.25 | 1.07 | 1.25 |
| -30 | (-22) | 182 | 46 | 53 | 35 | 0.29 | 0.63 | 5.17 | 1.30 | 1.51 |
| -25 | (-13) | 250 | 63 | 73 | 41 | 0.33 | 0.87 | 6.05 | 1.53 | 1.77 |
| -20 | (- 4) | 331 | 83 | 97 | 48 | 0.38 | 1.15 | 6.96 | 1.76 | 2.04 |
| -15 | (+ 5) | 427 | 108 | 125 | 54 | 0.42 | 1.49 | 7.95 | 2.00 | 2.33 |
| -10 | (+14) | 541 | 136 | 159 | 60 | 0.47 | 1.89 | 9.05 | 2.28 | 2.65 |
| -5 | (+23) | 677 | 171 | 198 | 65 | 0.52 | 2.38 | 10.33 | 2.60 | 3.03 |
| 0 | (+32) | 838 | 211 | 246 | 71 | 0.57 | 2.95 | 11.83 | 2.98 | 3.47 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V3000RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 87 | 22 | 25 | 28 | 0.25 | 0.33 | 3.12 | 0.79 | 0.92 | |
| -30 (-22) | 141 | 36 | 41 | 35 | 0.29 | 0.54 | 4.01 | 1.01 | 1.18 | |
| -25 (-13) | 203 | 51 | 60 | 42 | 0.34 | 0.77 | 4.81 | 1.21 | 1.41 | |
| -20 (- 4) | 276 | 70 | 81 | 50 | 0.39 | 1.06 | 5.59 | 1.41 | 1.64 | |
| -15 (+ 5) | 363 | 91 | 106 | 57 | 0.45 | 1.39 | 6.37 | 1.61 | 1.87 | |
| -10 (+14) | 467 | 118 | 137 | 65 | 0.50 | 1.79 | 7.23 | 1.82 | 2.12 | |
| -5 (+23) | 590 | 149 | 173 | 72 | 0.56 | 2.27 | 8.19 | 2.06 | 2.40 | |
| 0 (+32) | 737 | 186 | 216 | 79 | 0.62 | 2.84 | 9.33 | 2.35 | 2.73 | |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|--------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V4500RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 230 | 58 | 67 | 47 | 0.38 | 0.74 | 4.89 | 1.23 | 1.43 | |
| -30 (-22) | 297 | 75 | 87 | 52 | 0.40 | 0.95 | 5.80 | 1.46 | 1.70 | |
| -25 (-13) | 398 | 100 | 117 | 59 | 0.45 | 1.28 | 6.77 | 1.71 | 1.98 | |
| -20 (- 4) | 531 | 134 | 156 | 67 | 0.51 | 1.70 | 7.84 | 1.98 | 2.30 | |
| -15 (+ 5) | 696 | 175 | 204 | 76 | 0.58 | 2.24 | 9.06 | 2.28 | 2.66 | |
| -10 (+14) | 892 | 225 | 261 | 85 | 0.65 | 2.88 | 10.47 | 2.64 | 3.07 | |
| -5 (+23) | 1118 | 282 | 328 | 93 | 0.70 | 3.62 | 12.10 | 3.05 | 3.55 | |
| 0 (+32) | 1374 | 346 | 403 | 99 | 0.74 | 4.46 | 14.00 | 3.53 | 4.10 | |

| CONDICIONES DE PRUEBA: | | CECOMAF | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V4500RPM | | Estática | | | | | | | | |
| 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] | |
| -35 (-31) | 193 | 49 | 57 | 47 | 0.38 | 0.67 | 4.16 | 1.05 | 1.22 | |
| -30 (-22) | 257 | 65 | 75 | 53 | 0.41 | 0.90 | 4.92 | 1.24 | 1.44 | |
| -25 (-13) | 347 | 87 | 102 | 62 | 0.47 | 1.21 | 5.69 | 1.43 | 1.67 | |
| -20 (- 4) | 462 | 116 | 135 | 71 | 0.54 | 1.61 | 6.50 | 1.64 | 1.90 | |
| -15 (+ 5) | 601 | 152 | 176 | 81 | 0.62 | 2.10 | 7.40 | 1.86 | 2.17 | |
| -10 (+14) | 764 | 193 | 224 | 91 | 0.68 | 2.68 | 8.43 | 2.12 | 2.47 | |
| -5 (+23) | 951 | 240 | 279 | 98 | 0.74 | 3.34 | 9.62 | 2.43 | 2.82 | |
| 0 (+32) | 1159 | 292 | 339 | 103 | 0.76 | 4.08 | 11.03 | 2.78 | 3.23 | |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: @220V4500RPM | | CECOMAF Estática | | | (Temp. de condensación 55°C (+131°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] |
| -35 | (-31) | 137 | 34 | 40 | 43 | 0.35 | 0.52 | 3.12 | 0.79 | 0.92 |
| -30 | (-22) | 205 | 52 | 60 | 52 | 0.41 | 0.78 | 3.89 | 0.98 | 1.14 |
| -25 | (-13) | 292 | 74 | 86 | 63 | 0.48 | 1.12 | 4.61 | 1.16 | 1.35 |
| -20 | (- 4) | 397 | 100 | 116 | 75 | 0.57 | 1.52 | 5.31 | 1.34 | 1.56 |
| -15 | (+ 5) | 519 | 131 | 152 | 86 | 0.65 | 1.99 | 6.05 | 1.52 | 1.77 |
| -10 | (+14) | 658 | 166 | 193 | 96 | 0.72 | 2.52 | 6.86 | 1.73 | 2.01 |
| -5 | (+23) | 812 | 205 | 238 | 105 | 0.78 | 3.13 | 7.77 | 1.96 | 2.28 |
| 0 | (+32) | 981 | 247 | 287 | 110 | 0.81 | 3.79 | 8.85 | 2.23 | 2.59 |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|----------------|------|-----------|
| 1 Placa base | | | |
| 2 Soporte de badeja | Sí | | |
| 3 Tubos | | | |
| 3.1 SUCCIÓN | 6.1 | [mm] | (0.240") |
| 3.1.1 Material | | | |
| 3.1.2 Forma | | | |
| 3.2 DESCARGA | 4.9 | [mm] | (0.193") |
| 3.2.1 Material | | | |
| 3.2.2 Forma | | | |
| 3.3 PROCESO | 6.2 | [mm] | (0.244") |
| 3.3.1 Material | | | |
| 3.3.2 Forma | | | |
| 3.4 Tubo enfriador de aceite (Cobre) | No | [mm] | |
| 3.5 Sellado del tudo | Tampa de Gomma | | |