

### DEFINICIÓN DEL COMPRESOR

|                              |                        |
|------------------------------|------------------------|
| Denominación                 | <b>VEM C9C</b>         |
| Voltage / Frecuencia nominal | <b>230 V 40-150 Hz</b> |
| Código de Ingeniería         | <b>513906054</b>       |

### A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

|   |                               |                                   |               |
|---|-------------------------------|-----------------------------------|---------------|
| 1 Tipo                                  | Compresor recíproco           |                                   |               |
| 2 Refrigerante                          | R-600a                        |                                   |               |
| 3 Voltaje y frecuencia nominal          | 230 / 40-150                  | [ V / Hz ]                        |               |
| 4 Tipo de aplicación                    |                               |                                   |               |
| 4.1 Rango de temperatura de evaporación | -35°C para -10°C              | (-31°F para 14°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                      | 80 para 140 V                     | 80 para 140 V |
| 8.2 LBP (43°C Temperatura ambiente)     | Estática                      | 80 para 140 V                     | 80 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                           | 6.9                           | [kgf/cm <sup>2</sup> ] (98 psig)  | / °C - °F     |
| 9.2 Pico                                | 7.8                           | [kgf/cm <sup>2</sup> ] (111 psig) | / °C - °F     |
| 10 Máxima temperatura de las bobinas    | 130                           | [ °C ]                            |               |

### B - DATOS MECÁNICOS

|                                |                |                                  |
|--------------------------------|----------------|----------------------------------|
| 1 Referencia Comercial         | 1/5            | [hp]                             |
| 2 Desplazamiento               | 9.04           | [cm <sup>3</sup> ] (0.552 cu.in) |
| 2.1 Diametro [mm]              | 24.000         |                                  |
| 2.2 Curso [mm]                 | 20.000         |                                  |
| 3 Carga de aceite              | 210            | [ml] (7.10 fl.oz.)               |
| 3.1 Aceites aprobados          |                |                                  |
| 3.2 Tipo/Viscosidad del aceite | ALQUILB / ISO5 |                                  |
| 4 Peso (com carga de aceite)   | 7.8            | [kg] (17.20 lb.)                 |
| 5 Carga de nitrógeno           | -              | [kgf/cm <sup>2</sup> ]           |

### C - DATOS ELÉCTRICOS

|   |                                 |                           |
|---|---------------------------------|---------------------------|
| 1 Voltaje nominal/Frecuencia/Numero de fases      | 230 V 40-150 Hz 3 ~ (Trifásico) |                           |
| 2 Tipo de Dispositivo de Arranque                 | Inverter                        |                           |
| 2.1 Dispositivo de Arranque                       | CF02D01 M 0.0 X/VCC32456XXXX    |                           |
| 3 Capacitor de Arranque                           | -                               | [µF(VAC minimo)]          |
| 4 Capacitor de marcha                             | -                               | [µF(VAC minimo)]          |
| 5 Protección del motor                            | VCC3 115624N01 SH3.2            |                           |
| 6 Resistencia del motor - bobina arranque         | 8.10                            | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha           | 8.10                            | [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) | 2.10                            | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (40/150 Hz)  | -                               | [A] - Medido según UL 984 |
| 11 Institutos de aprobación                       | CCC - UL - VDE                  |                           |

### D - PERFORMANCE - DATOS CHECK POINT

|   |          |     |                                      |                                |   |                               |           |       |
|---|----------|-----|--------------------------------------|--------------------------------|---|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V1200RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Estática</b> |                                | Temperatura de evaporación <b>-25°C (-13°F)</b><br>(Temp. de condensación <b>55°C (131°F)</b> ) |                               |           |       |
| Capacidad de refrigeración<br>+/- 5%          |          |     | Consumo de potencia<br>+/- 5%        | Consumo de corriente<br>+/- 5% | Flujo de masa<br>+/- 5%   | RANGO DE EFICIENCIA<br>+/- 7% |           |       |
| [Btu/h]                                       | [kcal/h] | [W] | [W]                                  | [A]                            | [kg/h]  | [Btu/Wh]                      | [kcal/Wh] | [W/W] |
| 160   | 40       | 47  | 33                                   | 0.57                           | 0.61  | 4.89                          | 1.23      | 1.43  |

|   |          |     |                                      |                                |   |                               |           |       |
|---|----------|-----|--------------------------------------|--------------------------------|---|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V1600RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Estática</b> |                                | Temperatura de evaporación <b>-25°C (-13°F)</b><br>(Temp. de condensación <b>55°C (131°F)</b> ) |                               |           |       |
| Capacidad de refrigeración<br>+/- 5%          |          |     | Consumo de potencia<br>+/- 5%        | Consumo de corriente<br>+/- 5% | Flujo de masa<br>+/- 5%   | RANGO DE EFICIENCIA<br>+/- 7% |           |       |
| [Btu/h]                                       | [kcal/h] | [W] | [W]                                  | [A]                            | [kg/h]  | [Btu/Wh]                      | [kcal/Wh] | [W/W] |
| 218   | 55       | 64  | 42                                   | 0.71                           | 0.83  | 5.17                          | 1.30      | 1.51  |

|   |          |     |                                      |                                |   |                               |           |       |
|---|----------|-----|--------------------------------------|--------------------------------|---|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V2000RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Estática</b> |                                | Temperatura de evaporación <b>-25°C (-13°F)</b><br>(Temp. de condensación <b>55°C (131°F)</b> ) |                               |           |       |
| Capacidad de refrigeración<br>+/- 5%          |          |     | Consumo de potencia<br>+/- 5%        | Consumo de corriente<br>+/- 5% | Flujo de masa<br>+/- 5%   | RANGO DE EFICIENCIA<br>+/- 7% |           |       |
| [Btu/h]                                       | [kcal/h] | [W] | [W]                                  | [A]                            | [kg/h]  | [Btu/Wh]                      | [kcal/Wh] | [W/W] |
| 276   | 70       | 81  | 53                                   | 0.88                           | 1.05  | 5.23                          | 1.32      | 1.53  |

|   |          |     |                                      |                                |   |                               |           |       |
|---|----------|-----|--------------------------------------|--------------------------------|---|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V3000RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Estática</b> |                                | Temperatura de evaporación <b>-25°C (-13°F)</b><br>(Temp. de condensación <b>55°C (131°F)</b> ) |                               |           |       |
| Capacidad de refrigeración<br>+/- 5%          |          |     | Consumo de potencia<br>+/- 5%        | Consumo de corriente<br>+/- 5% | Flujo de masa<br>+/- 5%   | RANGO DE EFICIENCIA<br>+/- 7% |           |       |
| [Btu/h]                                       | [kcal/h] | [W] | [W]                                  | [A]                            | [kg/h]  | [Btu/Wh]                      | [kcal/Wh] | [W/W] |
| 411   | 104      | 120 | 80                                   | 1.24                           | 1.57  | 5.16                          | 1.30      | 1.51  |

|   |          |     |                                      |                                |   |                               |           |       |
|---|----------|-----|--------------------------------------|--------------------------------|---|-------------------------------|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V4500RPM</b> |          |     | <b>CECOMAFLBP</b><br><b>Estática</b> |                                | Temperatura de evaporación <b>-25°C (-13°F)</b><br>(Temp. de condensación <b>55°C (131°F)</b> ) |                               |           |       |
| Capacidad de refrigeración<br>+/- 5%          |          |     | Consumo de potencia<br>+/- 5%        | Consumo de corriente<br>+/- 5% | Flujo de masa<br>+/- 5%   | RANGO DE EFICIENCIA<br>+/- 7% |           |       |
| [Btu/h]                                       | [kcal/h] | [W] | [W]                                  | [A]                            | [kg/h]  | [Btu/Wh]                      | [kcal/Wh] | [W/W] |
| 553   | 139      | 162 | 112                                  | 0.89                           | 2.11  | 4.95                          | 1.25      | 1.45  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | CECOMAF  |     |                     | (Temp. de condensación 35°C (+95°F)) |               |                     |           |       |  |
|----------------------------|----------------------------|----------|-----|---------------------|--------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V1200RPM               |                            | 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)                  | 119                        | 30       | 35  | 20                  | 0.38                                 | 0.38          | 5.84                | 1.47      | 1.71  |  |
| -30 (-22)                  | 163                        | 41       | 48  | 24                  | 0.52                                 | 0.52          | 6.76                | 1.70      | 1.98  |  |
| -25 (-13)                  | 215                        | 54       | 63  | 28                  | 0.69                                 | 0.69          | 7.80                | 1.97      | 2.29  |  |
| -20 (- 4)                  | 277                        | 70       | 81  | 31                  | 0.89                                 | 0.89          | 9.01                | 2.27      | 2.64  |  |
| -15 (+ 5)                  | 351                        | 89       | 103 | 34                  | 1.13                                 | 1.13          | 10.44               | 2.63      | 3.06  |  |
| -10 (+14)                  | 439                        | 111      | 129 | 36                  | 1.41                                 | 1.41          | 12.12               | 3.05      | 3.55  |  |

| CONDICIONES DE PRUEBA:     |                            | CECOMAF  |     |                     | (Temp. de condensación 45°C (+113°F)) |               |                     |           |       |  |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V1200RPM               |                            | 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)                  | 98                         | 25       | 29  | 21                  | 0.34                                  | 0.34          | 4.63                | 1.17      | 1.36  |  |
| -30 (-22)                  | 138                        | 35       | 41  | 26                  | 0.48                                  | 0.48          | 5.35                | 1.35      | 1.57  |  |
| -25 (-13)                  | 186                        | 47       | 55  | 30                  | 0.65                                  | 0.65          | 6.12                | 1.54      | 1.79  |  |
| -20 (- 4)                  | 244                        | 61       | 71  | 35                  | 0.85                                  | 0.85          | 6.99                | 1.76      | 2.05  |  |
| -15 (+ 5)                  | 312                        | 79       | 91  | 39                  | 1.09                                  | 1.09          | 8.00                | 2.02      | 2.34  |  |
| -10 (+14)                  | 392                        | 99       | 115 | 43                  | 1.37                                  | 1.37          | 9.20                | 2.32      | 2.70  |  |

| CONDICIONES DE PRUEBA:     |                            | CECOMAF  |     |                     | (Temp. de condensación 55°C (+131°F)) |               |                     |           |       |  |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V1200RPM               |                            | 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)                  | 77                         | 19       | 23  | 21                  | 0.29                                  | 0.29          | 3.59                | 0.90      | 1.05  |  |
| -30 (-22)                  | 114                        | 29       | 33  | 27                  | 0.43                                  | 0.43          | 4.26                | 1.07      | 1.25  |  |
| -25 (-13)                  | 158                        | 40       | 46  | 32                  | 0.60                                  | 0.60          | 4.91                | 1.24      | 1.44  |  |
| -20 (- 4)                  | 210                        | 53       | 62  | 38                  | 0.80                                  | 0.80          | 5.57                | 1.40      | 1.63  |  |
| -15 (+ 5)                  | 272                        | 69       | 80  | 43                  | 1.04                                  | 1.04          | 6.31                | 1.59      | 1.85  |  |
| -10 (+14)                  | 345                        | 87       | 101 | 48                  | 1.32                                  | 1.32          | 7.16                | 1.81      | 2.10  |  |

| 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)                  | 165                        | 42       | 48  | 26                  | 0.20                                 | 0.53          | 6.23                | 1.57      | 1.83  |  |
| -30 (-22)                  | 223                        | 56       | 65  | 31                  | 0.24                                 | 0.72          | 7.08                | 1.78      | 2.08  |  |
| -25 (-13)                  | 293                        | 74       | 86  | 36                  | 0.28                                 | 0.94          | 8.05                | 2.03      | 2.36  |  |
| -20 (- 4)                  | 377                        | 95       | 111 | 41                  | 0.32                                 | 1.21          | 9.18                | 2.31      | 2.69  |  |
| -15 (+ 5)                  | 477                        | 120      | 140 | 45                  | 0.35                                 | 1.53          | 10.52               | 2.65      | 3.08  |  |
| -10 (+14)                  | 594                        | 150      | 174 | 49                  | 0.38                                 | 1.92          | 12.11               | 3.05      | 3.55  |  |

### E - PERFORMANCE - CURVAS

| 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) | 138                        | 35       | 40  | 28                                    | 0.21                 | 0.48          | 4.97                | 1.25      | 1.46  |
| -30                        | (-22) | 192                        | 48       | 56  | 34                                    | 0.25                 | 0.67          | 5.69                | 1.43      | 1.67  |
| -25                        | (-13) | 256                        | 65       | 75  | 40                                    | 0.30                 | 0.89          | 6.43                | 1.62      | 1.89  |
| -20                        | (- 4) | 334                        | 84       | 98  | 46                                    | 0.35                 | 1.16          | 7.26                | 1.83      | 2.13  |
| -15                        | (+ 5) | 426                        | 107      | 125 | 52                                    | 0.39                 | 1.49          | 8.21                | 2.07      | 2.41  |
| -10                        | (+14) | 533                        | 134      | 156 | 57                                    | 0.43                 | 1.87          | 9.33                | 2.35      | 2.73  |

| 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) | 110                        | 28       | 32  | 29                                    | 0.22                 | 0.42          | 3.83                | 0.97      | 1.12  |
| -30                        | (-22) | 160                        | 40       | 47  | 35                                    | 0.27                 | 0.61          | 4.55                | 1.15      | 1.33  |
| -25                        | (-13) | 219                        | 55       | 64  | 42                                    | 0.32                 | 0.83          | 5.22                | 1.32      | 1.53  |
| -20                        | (- 4) | 289                        | 73       | 85  | 49                                    | 0.37                 | 1.10          | 5.88                | 1.48      | 1.72  |
| -15                        | (+ 5) | 373                        | 94       | 109 | 57                                    | 0.43                 | 1.43          | 6.59                | 1.66      | 1.93  |
| -10                        | (+14) | 471                        | 119      | 138 | 64                                    | 0.49                 | 1.81          | 7.37                | 1.86      | 2.16  |

| 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) | 208                        | 52       | 61  | 33                                   | 0.25                 | 0.67          | 6.30                | 1.59      | 1.85  |
| -30                        | (-22) | 280                        | 71       | 82  | 39                                   | 0.30                 | 0.90          | 7.14                | 1.80      | 2.09  |
| -25                        | (-13) | 368                        | 93       | 108 | 46                                   | 0.35                 | 1.18          | 8.07                | 2.03      | 2.36  |
| -20                        | (- 4) | 472                        | 119      | 138 | 52                                   | 0.40                 | 1.52          | 9.15                | 2.30      | 2.68  |
| -15                        | (+ 5) | 596                        | 150      | 175 | 57                                   | 0.44                 | 1.92          | 10.42               | 2.63      | 3.05  |
| -10                        | (+14) | 742                        | 187      | 218 | 62                                   | 0.47                 | 2.39          | 11.96               | 3.01      | 3.50  |

| 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) | 175                        | 44       | 51  | 35                                    | 0.26                 | 0.61          | 5.07                | 1.28      | 1.48  |
| -30                        | (-22) | 242                        | 61       | 71  | 42                                    | 0.32                 | 0.84          | 5.78                | 1.46      | 1.69  |
| -25                        | (-13) | 323                        | 81       | 95  | 49                                    | 0.38                 | 1.12          | 6.50                | 1.64      | 1.90  |
| -20                        | (- 4) | 419                        | 105      | 123 | 57                                    | 0.44                 | 1.46          | 7.28                | 1.84      | 2.13  |
| -15                        | (+ 5) | 533                        | 134      | 156 | 65                                    | 0.49                 | 1.86          | 8.18                | 2.06      | 2.40  |
| -10                        | (+14) | 667                        | 168      | 195 | 72                                    | 0.55                 | 2.34          | 9.26                | 2.33      | 2.71  |

### 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)                  | 141                        | 35       | 41  | 36                  | 0.27                                  | 0.54          | 3.89                | 0.98      | 1.14  |  |
| -30 (-22)                  | 202                        | 51       | 59  | 44                  | 0.33                                  | 0.77          | 4.63                | 1.17      | 1.36  |  |
| -25 (-13)                  | 276                        | 70       | 81  | 52                  | 0.40                                  | 1.05          | 5.29                | 1.33      | 1.55  |  |
| -20 (- 4)                  | 363                        | 92       | 106 | 62                  | 0.47                                  | 1.39          | 5.93                | 1.49      | 1.74  |  |
| -15 (+ 5)                  | 467                        | 118      | 137 | 71                  | 0.54                                  | 1.79          | 6.60                | 1.66      | 1.93  |  |
| -10 (+14)                  | 590                        | 149      | 173 | 80                  | 0.61                                  | 2.26          | 7.35                | 1.85      | 2.16  |  |

| 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)                  | 307                        | 77       | 90  | 50                  | 0.38                                 | 0.98          | 6.11                | 1.54      | 1.79  |  |
| -30 (-22)                  | 416                        | 105      | 122 | 60                  | 0.46                                 | 1.33          | 6.87                | 1.73      | 2.01  |  |
| -25 (-13)                  | 548                        | 138      | 160 | 71                  | 0.54                                 | 1.76          | 7.73                | 1.95      | 2.27  |  |
| -20 (- 4)                  | 706                        | 178      | 207 | 81                  | 0.62                                 | 2.27          | 8.74                | 2.20      | 2.56  |  |
| -15 (+ 5)                  | 893                        | 225      | 262 | 90                  | 0.69                                 | 2.87          | 9.95                | 2.51      | 2.92  |  |
| -10 (+14)                  | 1113                       | 281      | 326 | 98                  | 0.75                                 | 3.59          | 11.41               | 2.87      | 3.34  |  |

| 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)                  | 256                        | 64       | 75  | 52                  | 0.39                                  | 0.89          | 4.98                | 1.26      | 1.46  |  |
| -30 (-22)                  | 357                        | 90       | 105 | 64                  | 0.48                                  | 1.24          | 5.61                | 1.41      | 1.64  |  |
| -25 (-13)                  | 478                        | 120      | 140 | 76                  | 0.58                                  | 1.66          | 6.26                | 1.58      | 1.84  |  |
| -20 (- 4)                  | 623                        | 157      | 183 | 89                  | 0.68                                  | 2.17          | 6.99                | 1.76      | 2.05  |  |
| -15 (+ 5)                  | 796                        | 201      | 233 | 101                 | 0.77                                  | 2.78          | 7.84                | 1.98      | 2.30  |  |
| -10 (+14)                  | 998                        | 252      | 293 | 113                 | 0.86                                  | 3.50          | 8.85                | 2.23      | 2.59  |  |

| 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)                  | 203                        | 51       | 60  | 52                  | 0.39                                  | 0.77          | 3.92                | 0.99      | 1.15  |  |
| -30 (-22)                  | 296                        | 74       | 87  | 65                  | 0.50                                  | 1.12          | 4.55                | 1.15      | 1.33  |  |
| -25 (-13)                  | 406                        | 102      | 119 | 79                  | 0.61                                  | 1.55          | 5.13                | 1.29      | 1.50  |  |
| -20 (- 4)                  | 538                        | 136      | 158 | 95                  | 0.72                                  | 2.06          | 5.71                | 1.44      | 1.67  |  |
| -15 (+ 5)                  | 695                        | 175      | 204 | 110                 | 0.84                                  | 2.66          | 6.34                | 1.60      | 1.86  |  |
| -10 (+14)                  | 880                        | 222      | 258 | 125                 | 0.95                                  | 3.38          | 7.05                | 1.78      | 2.07  |  |

### E - PERFORMANCE - CURVAS

| 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)                  | 447                        | 113      | 131 | 78                  | 0.58                                 | 1.43          | 5.74                | 1.45      | 1.68  |  |
| -30 (-22)                  | 591                        | 149      | 173 | 97                  | 0.68                                 | 1.90          | 6.04                | 1.52      | 1.77  |  |
| -25 (-13)                  | 769                        | 194      | 225 | 109                 | 0.80                                 | 2.47          | 7.07                | 1.78      | 2.07  |  |
| -20 (- 4)                  | 983                        | 248      | 288 | 116                 | 0.91                                 | 3.16          | 8.49                | 2.14      | 2.49  |  |
| -15 (+ 5)                  | 1237                       | 312      | 362 | 124                 | 1.02                                 | 3.98          | 9.95                | 2.51      | 2.92  |  |
| -10 (+14)                  | 1533                       | 386      | 449 | 138                 | 1.12                                 | 4.95          | 11.11               | 2.80      | 3.25  |  |

| 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)                  | 387                        | 97       | 113 | 78                  | 0.62                                  | 1.34          | 4.99                | 1.26      | 1.46  |  |
| -30 (-22)                  | 518                        | 131      | 152 | 97                  | 0.74                                  | 1.80          | 5.34                | 1.35      | 1.57  |  |
| -25 (-13)                  | 681                        | 172      | 199 | 108                 | 0.87                                  | 2.37          | 6.36                | 1.60      | 1.86  |  |
| -20 (- 4)                  | 877                        | 221      | 257 | 116                 | 1.01                                  | 3.06          | 7.70                | 1.94      | 2.26  |  |
| -15 (+ 5)                  | 1111                       | 280      | 326 | 127                 | 1.15                                  | 3.88          | 9.00                | 2.27      | 2.64  |  |
| -10 (+14)                  | 1385                       | 349      | 406 | 144                 | 1.28                                  | 4.85          | 9.92                | 2.50      | 2.91  |  |

| CONDICIONES DE PRUEBA:     |                            | CECOMAF  |     |                     | (Temp. de condensación 55°C (+131°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)                  | 320                        | 81       | 94  | 86                  | 0.66                                  | 1.22          | 3.68                | 0.93      | 1.08  |  |
| -30 (-22)                  | 439                        | 111      | 129 | 107                 | 0.78                                  | 1.67          | 3.90                | 0.98      | 1.14  |  |
| -25 (-13)                  | 586                        | 148      | 172 | 123                 | 0.92                                  | 2.23          | 4.72                | 1.19      | 1.38  |  |
| -20 (- 4)                  | 766                        | 193      | 224 | 136                 | 1.08                                  | 2.92          | 5.77                | 1.46      | 1.69  |  |
| -15 (+ 5)                  | 979                        | 247      | 287 | 153                 | 1.25                                  | 3.75          | 6.73                | 1.69      | 1.97  |  |
| -10 (+14)                  | 1231                       | 310      | 361 | 177                 | 1.41                                  | 4.73          | 7.22                | 1.82      | 2.12  |  |

**F - CARACTERÍSTICAS EXTERNAS**

|                                      |   |
|--------------------------------------|---|
| 1 Placa base                         | Padrón Europeo EUEM                           |
| 2 Soporte de bodega                  | Sí  |
| 3 Tubos                              |   |
| 3.1 SUCCIÓN                          | 6.1 +0.10/+0.00 [mm] (0.240" +0.004"/+0.000") |
| 3.1.1 Material                       | Cobre   |
| 3.1.2 Forma                          | Curvo 12° adelante + 79°arriba                |
| 3.2 DESCARGA                         | 4.9 [mm] (0.193" )                            |
| 3.2.1 Material                       |   |
| 3.2.2 Forma                          |   |
| 3.3 PROCESO                          | 6.2 +0.05/+0.05 [mm] (0.244" +0.002"/+0.002") |
| 3.3.1 Material                       | Cobre   |
| 3.3.2 Forma                          | Curvo 42° arriba + 45° atrás                  |
| 3.4 Tubo enfriador de aceite (Cobre) | No [mm]                                       |
| 3.5 Sellado del tudo                 | Tampa de Gomma                                |