

### DEFINICIÓN DEL COMPRESOR

|                              |                        |
|------------------------------|------------------------|
| Denominación                 | <b>VES G11C</b>        |
| Voltage / Frecuencia nominal | <b>230 V 32-150 Hz</b> |
| Código de Ingeniería         | <b>513907364</b>       |

### 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)     | -                             | -                                 | -         |
| 8.2 LBP (43°C Temperatura ambiente)     | -                             | -                                 | -         |
| 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               | 11.14          | [cm <sup>3</sup> ] (0.680 cu.in) |
| 2.1 Diametro [mm]              | 26.000         |                                  |
| 2.2 Curso [mm]                 | 21.000         |                                  |
| 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)   | 6.6            | [kg] (14.55 lb.)                 |
| 5 Carga de nitrógeno           | -              | [kgf/cm <sup>2</sup> ]           |

### 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 VESF 2456 X             |                           |
| 6 Resistencia del motor - bobina arranque         | 9.30                             | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha           | 9.30                             | [Ω en 25°C (77°F)] +/- 8% |
| 8 LRA - Corriente com rotor trabado (32/150 Hz)   | 2.10                             | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (32/150 Hz) | -                                | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (32/150 Hz)  | -                                | [A] - Medido según UL 984 |
| 11 Institutos de aprobación                       | CCC - VDE                        |                           |

### D - PERFORMANCE - DATOS CHECK POINT

|  |          |     |                                       |                                |  |  |           |       |
|--|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V950RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Estática</b> |                                | Temperatura de evaporación<br>(Temp. de condensación | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 216  | 54       | 63  | 33                                    | 0.29                           | 0.68   | 6.49   | 1.64      | 1.90  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V1300RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Estática</b> |                                | Temperatura de evaporación<br>(Temp. de condensación | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 294   | 74       | 86  | 44                                    | 0.36                           | 0.92   | 6.76   | 1.70      | 1.98  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V2000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Estática</b> |                                | Temperatura de evaporación<br>(Temp. de condensación | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 453   | 114      | 133 | 66                                    | 0.53                           | 1.42   | 6.88   | 1.73      | 2.02  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V3000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Estática</b> |                                | Temperatura de evaporación<br>(Temp. de condensación | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 686   | 173      | 201 | 102                                   | 0.79                           | 2.15   | 6.70   | 1.69      | 1.96  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V4000RPM</b> |          |     | <b>ASHRAELBP32</b><br><b>Estática</b> |                                | Temperatura de evaporación<br>(Temp. de condensación | <b>-23.3°C (-9.94°F)</b><br><b>54.4°C (129.92°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] |
| 867   | 218      | 254 | 135                                   | 1.03                           | 2.72   | 6.42   | 1.62      | 1.88  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (Temp. de condensación 35°C (+95°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)                  | 179                        | 45       | 52  | 26                  | 0.26                                 | 0.56          | 6.83                | 1.72      | 2.00  |  |
| -30 (-22)                  | 238                        | 60       | 70  | 31                  | 0.28                                 | 0.75          | 7.70                | 1.94      | 2.26  |  |
| -25 (-13)                  | 309                        | 78       | 91  | 35                  | 0.31                                 | 0.97          | 8.70                | 2.19      | 2.55  |  |
| -20 (- 4)                  | 394                        | 99       | 116 | 40                  | 0.35                                 | 1.24          | 9.86                | 2.48      | 2.89  |  |
| -15 (+ 5)                  | 497                        | 125      | 146 | 44                  | 0.38                                 | 1.56          | 11.21               | 2.83      | 3.29  |  |
| -10 (+14)                  | 620                        | 156      | 182 | 48                  | 0.41                                 | 1.96          | 12.80               | 3.23      | 3.75  |  |
| -5 (+23)                   | 766                        | 193      | 224 | 52                  | 0.43                                 | 2.42          | 14.66               | 3.70      | 4.30  |  |
| 0 (+32)                    | 938                        | 236      | 275 | 55                  | 0.44                                 | 2.97          | 16.83               | 4.24      | 4.93  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (Temp. de condensación 45°C (+113°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)                  | 166                        | 42       | 49  | 28                  | 0.26                                  | 0.52          | 6.03                | 1.52      | 1.77  |  |
| -30 (-22)                  | 223                        | 56       | 65  | 33                  | 0.29                                  | 0.70          | 6.76                | 1.70      | 1.98  |  |
| -25 (-13)                  | 292                        | 74       | 86  | 39                  | 0.33                                  | 0.92          | 7.56                | 1.90      | 2.21  |  |
| -20 (- 4)                  | 375                        | 95       | 110 | 44                  | 0.37                                  | 1.18          | 8.45                | 2.13      | 2.48  |  |
| -15 (+ 5)                  | 475                        | 120      | 139 | 50                  | 0.42                                  | 1.50          | 9.48                | 2.39      | 2.78  |  |
| -10 (+14)                  | 595                        | 150      | 174 | 56                  | 0.46                                  | 1.88          | 10.68               | 2.69      | 3.13  |  |
| -5 (+23)                   | 738                        | 186      | 216 | 61                  | 0.50                                  | 2.33          | 12.09               | 3.05      | 3.54  |  |
| 0 (+32)                    | 906                        | 228      | 266 | 66                  | 0.53                                  | 2.87          | 13.75               | 3.47      | 4.03  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 149                        | 38       | 44  | 28                  | 0.26                                  | 0.47          | 5.29                | 1.33      | 1.55  |  |
| -30 (-22)                  | 205                        | 52       | 60  | 34                  | 0.29                                  | 0.64          | 5.98                | 1.51      | 1.75  |  |
| -25 (-13)                  | 272                        | 69       | 80  | 41                  | 0.34                                  | 0.85          | 6.66                | 1.68      | 1.95  |  |
| -20 (- 4)                  | 353                        | 89       | 103 | 48                  | 0.39                                  | 1.11          | 7.39                | 1.86      | 2.16  |  |
| -15 (+ 5)                  | 450                        | 113      | 132 | 55                  | 0.44                                  | 1.42          | 8.18                | 2.06      | 2.40  |  |
| -10 (+14)                  | 567                        | 143      | 166 | 62                  | 0.50                                  | 1.79          | 9.09                | 2.29      | 2.66  |  |
| -5 (+23)                   | 706                        | 178      | 207 | 70                  | 0.55                                  | 2.23          | 10.14               | 2.56      | 2.97  |  |
| 0 (+32)                    | 871                        | 219      | 255 | 77                  | 0.59                                  | 2.76          | 11.37               | 2.87      | 3.33  |  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 217                        | 55       | 64  | 33                  | 0.29                                 | 0.68          | 6.59                | 1.66      | 1.93  |  |
| -30 (-22)                  | 286                        | 72       | 84  | 38                  | 0.32                                 | 0.90          | 7.48                | 1.88      | 2.19  |  |
| -25 (-13)                  | 371                        | 93       | 109 | 44                  | 0.36                                 | 1.16          | 8.47                | 2.13      | 2.48  |  |
| -20 (- 4)                  | 474                        | 120      | 139 | 49                  | 0.40                                 | 1.49          | 9.61                | 2.42      | 2.81  |  |
| -15 (+ 5)                  | 601                        | 152      | 176 | 55                  | 0.44                                 | 1.89          | 10.94               | 2.76      | 3.21  |  |
| -10 (+14)                  | 755                        | 190      | 221 | 60                  | 0.48                                 | 2.38          | 12.53               | 3.16      | 3.67  |  |
| -5 (+23)                   | 940                        | 237      | 275 | 65                  | 0.53                                 | 2.97          | 14.41               | 3.63      | 4.22  |  |
| 0 (+32)                    | 1160                       | 292      | 340 | 70                  | 0.58                                 | 3.68          | 16.62               | 4.19      | 4.87  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 206                        | 52       | 60  | 34                  | 0.31                                  | 0.64          | 6.02                | 1.52      | 1.76  |  |
| -30 (-22)                  | 276                        | 69       | 81  | 41                  | 0.35                                  | 0.86          | 6.76                | 1.70      | 1.98  |  |
| -25 (-13)                  | 359                        | 90       | 105 | 48                  | 0.39                                  | 1.13          | 7.55                | 1.90      | 2.21  |  |
| -20 (- 4)                  | 460                        | 116      | 135 | 55                  | 0.43                                  | 1.45          | 8.43                | 2.12      | 2.47  |  |
| -15 (+ 5)                  | 583                        | 147      | 171 | 62                  | 0.48                                  | 1.83          | 9.45                | 2.38      | 2.77  |  |
| -10 (+14)                  | 731                        | 184      | 214 | 69                  | 0.53                                  | 2.31          | 10.64               | 2.68      | 3.12  |  |
| -5 (+23)                   | 909                        | 229      | 266 | 75                  | 0.59                                  | 2.87          | 12.07               | 3.04      | 3.54  |  |
| 0 (+32)                    | 1120                       | 282      | 328 | 82                  | 0.65                                  | 3.55          | 13.78               | 3.47      | 4.04  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 184                        | 46       | 54  | 35                  | 0.31                                  | 0.58          | 5.28                | 1.33      | 1.55  |  |
| -30 (-22)                  | 254                        | 64       | 75  | 42                  | 0.36                                  | 0.80          | 6.00                | 1.51      | 1.76  |  |
| -25 (-13)                  | 337                        | 85       | 99  | 50                  | 0.41                                  | 1.06          | 6.70                | 1.69      | 1.96  |  |
| -20 (- 4)                  | 436                        | 110      | 128 | 59                  | 0.47                                  | 1.37          | 7.42                | 1.87      | 2.18  |  |
| -15 (+ 5)                  | 555                        | 140      | 163 | 68                  | 0.53                                  | 1.75          | 8.22                | 2.07      | 2.41  |  |
| -10 (+14)                  | 698                        | 176      | 205 | 76                  | 0.59                                  | 2.20          | 9.14                | 2.30      | 2.68  |  |
| -5 (+23)                   | 869                        | 219      | 255 | 85                  | 0.66                                  | 2.75          | 10.23               | 2.58      | 3.00  |  |
| 0 (+32)                    | 1072                       | 270      | 314 | 93                  | 0.73                                  | 3.40          | 11.53               | 2.91      | 3.38  |  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 272                        | 69       | 80  | 42                  | 0.34                                 | 0.85          | 6.53                | 1.65      | 1.91  |  |
| -30 (-22)                  | 359                        | 91       | 105 | 49                  | 0.39                                 | 1.13          | 7.41                | 1.87      | 2.17  |  |
| -25 (-13)                  | 467                        | 118      | 137 | 56                  | 0.44                                 | 1.47          | 8.40                | 2.12      | 2.46  |  |
| -20 (- 4)                  | 599                        | 151      | 175 | 63                  | 0.49                                 | 1.88          | 9.53                | 2.40      | 2.79  |  |
| -15 (+ 5)                  | 757                        | 191      | 222 | 70                  | 0.55                                 | 2.38          | 10.80               | 2.72      | 3.17  |  |
| -10 (+14)                  | 946                        | 238      | 277 | 77                  | 0.60                                 | 2.98          | 12.23               | 3.08      | 3.58  |  |
| -5 (+23)                   | 1169                       | 295      | 343 | 84                  | 0.65                                 | 3.70          | 13.83               | 3.49      | 4.05  |  |
| 0 (+32)                    | 1429                       | 360      | 419 | 91                  | 0.69                                 | 4.53          | 15.61               | 3.93      | 4.57  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 257                        | 65       | 75  | 43                  | 0.36                                  | 0.81          | 5.93                | 1.49      | 1.74  |  |
| -30 (-22)                  | 343                        | 87       | 101 | 52                  | 0.41                                  | 1.08          | 6.66                | 1.68      | 1.95  |  |
| -25 (-13)                  | 449                        | 113      | 131 | 60                  | 0.47                                  | 1.41          | 7.48                | 1.88      | 2.19  |  |
| -20 (- 4)                  | 577                        | 145      | 169 | 69                  | 0.54                                  | 1.81          | 8.39                | 2.11      | 2.46  |  |
| -15 (+ 5)                  | 731                        | 184      | 214 | 78                  | 0.60                                  | 2.30          | 9.40                | 2.37      | 2.76  |  |
| -10 (+14)                  | 915                        | 230      | 268 | 87                  | 0.67                                  | 2.88          | 10.54               | 2.66      | 3.09  |  |
| -5 (+23)                   | 1131                       | 285      | 331 | 96                  | 0.74                                  | 3.58          | 11.80               | 2.97      | 3.46  |  |
| 0 (+32)                    | 1384                       | 349      | 406 | 105                 | 0.80                                  | 4.39          | 13.21               | 3.33      | 3.87  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 232                        | 58       | 68  | 44                  | 0.36                                  | 0.73          | 5.28                | 1.33      | 1.55  |  |
| -30 (-22)                  | 318                        | 80       | 93  | 53                  | 0.42                                  | 1.00          | 5.95                | 1.50      | 1.74  |  |
| -25 (-13)                  | 422                        | 106      | 124 | 63                  | 0.49                                  | 1.32          | 6.66                | 1.68      | 1.95  |  |
| -20 (- 4)                  | 548                        | 138      | 161 | 74                  | 0.57                                  | 1.72          | 7.43                | 1.87      | 2.18  |  |
| -15 (+ 5)                  | 699                        | 176      | 205 | 85                  | 0.65                                  | 2.20          | 8.26                | 2.08      | 2.42  |  |
| -10 (+14)                  | 879                        | 221      | 257 | 96                  | 0.73                                  | 2.77          | 9.18                | 2.31      | 2.69  |  |
| -5 (+23)                   | 1090                       | 275      | 319 | 107                 | 0.82                                  | 3.45          | 10.18               | 2.57      | 2.98  |  |
| 0 (+32)                    | 1337                       | 337      | 392 | 118                 | 0.91                                  | 4.24          | 11.29               | 2.85      | 3.31  |  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 389                        | 98       | 114 | 65                  | 0.51                                  | 1.22          | 5.99                | 1.51      | 1.76  |  |
| -30 (-22)                  | 521                        | 131      | 153 | 75                  | 0.58                                  | 1.63          | 6.91                | 1.74      | 2.02  |  |
| -25 (-13)                  | 683                        | 172      | 200 | 87                  | 0.66                                  | 2.14          | 7.87                | 1.98      | 2.31  |  |
| -20 (- 4)                  | 878                        | 221      | 257 | 99                  | 0.75                                  | 2.76          | 8.88                | 2.24      | 2.60  |  |
| -15 (+ 5)                  | 1112                       | 280      | 326 | 112                 | 0.85                                  | 3.50          | 9.94                | 2.51      | 2.91  |  |
| -10 (+14)                  | 1388                       | 350      | 407 | 126                 | 0.95                                  | 4.38          | 11.06               | 2.79      | 3.24  |  |
| -5 (+23)                   | 1711                       | 431      | 501 | 140                 | 1.06                                  | 5.41          | 12.25               | 3.09      | 3.59  |  |
| 0 (+32)                    | 2084                       | 525      | 611 | 154                 | 1.17                                  | 6.60          | 13.50               | 3.40      | 3.96  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 381                        | 96       | 112 | 67                  | 0.52                                   | 1.19          | 5.67                | 1.43      | 1.66  |  |
| -30 (-22)                  | 507                        | 128      | 149 | 79                  | 0.60                                   | 1.59          | 6.40                | 1.61      | 1.87  |  |
| -25 (-13)                  | 663                        | 167      | 194 | 93                  | 0.70                                   | 2.08          | 7.17                | 1.81      | 2.10  |  |
| -20 (- 4)                  | 853                        | 215      | 250 | 107                 | 0.81                                   | 2.68          | 8.00                | 2.02      | 2.34  |  |
| -15 (+ 5)                  | 1082                       | 273      | 317 | 122                 | 0.92                                   | 3.40          | 8.89                | 2.24      | 2.60  |  |
| -10 (+14)                  | 1352                       | 341      | 396 | 138                 | 1.04                                   | 4.27          | 9.83                | 2.48      | 2.88  |  |
| -5 (+23)                   | 1669                       | 421      | 489 | 154                 | 1.17                                   | 5.28          | 10.85               | 2.73      | 3.18  |  |
| 0 (+32)                    | 2036                       | 513      | 597 | 171                 | 1.29                                   | 6.45          | 11.93               | 3.01      | 3.50  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 349                        | 88       | 102 | 68                  | 0.53                                   | 1.09          | 5.17                | 1.30      | 1.51  |  |
| -30 (-22)                  | 472                        | 119      | 138 | 82                  | 0.63                                   | 1.48          | 5.76                | 1.45      | 1.69  |  |
| -25 (-13)                  | 625                        | 157      | 183 | 98                  | 0.74                                   | 1.96          | 6.41                | 1.62      | 1.88  |  |
| -20 (- 4)                  | 812                        | 205      | 238 | 114                 | 0.87                                   | 2.55          | 7.12                | 1.79      | 2.09  |  |
| -15 (+ 5)                  | 1037                       | 261      | 304 | 131                 | 1.00                                   | 3.27          | 7.88                | 1.99      | 2.31  |  |
| -10 (+14)                  | 1304                       | 329      | 382 | 150                 | 1.14                                   | 4.12          | 8.72                | 2.20      | 2.55  |  |
| -5 (+23)                   | 1618                       | 408      | 474 | 168                 | 1.28                                   | 5.12          | 9.62                | 2.42      | 2.82  |  |
| 0 (+32)                    | 1982                       | 500      | 581 | 188                 | 1.43                                   | 6.28          | 10.59               | 2.67      | 3.10  |  |

### E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 530                        | 134      | 155 | 92                  | 0.69                                 | 1.66          | 5.77                | 1.45      | 1.69  |  |
| -30 (-22)                  | 684                        | 172      | 200 | 106                 | 0.82                                 | 2.14          | 6.51                | 1.64      | 1.91  |  |
| -25 (-13)                  | 885                        | 223      | 259 | 120                 | 0.92                                 | 2.78          | 7.38                | 1.86      | 2.16  |  |
| -20 (- 4)                  | 1123                       | 283      | 329 | 134                 | 1.00                                 | 3.53          | 8.35                | 2.11      | 2.45  |  |
| -15 (+ 5)                  | 1388                       | 350      | 407 | 148                 | 1.08                                 | 4.37          | 9.41                | 2.37      | 2.76  |  |
| -10 (+14)                  | 1671                       | 421      | 490 | 159                 | 1.17                                 | 5.27          | 10.51               | 2.65      | 3.08  |  |
| -5 (+23)                   | 1963                       | 495      | 575 | 169                 | 1.27                                 | 6.21          | 11.63               | 2.93      | 3.41  |  |
| 0 (+32)                    | 2253                       | 568      | 660 | 175                 | 1.40                                 | 7.14          | 12.74               | 3.21      | 3.73  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 495                        | 125      | 145 | 93                  | 0.70                                  | 1.55          | 5.35                | 1.35      | 1.57  |  |
| -30 (-22)                  | 652                        | 164      | 191 | 109                 | 0.85                                  | 2.04          | 5.99                | 1.51      | 1.76  |  |
| -25 (-13)                  | 855                        | 215      | 251 | 126                 | 0.97                                  | 2.68          | 6.75                | 1.70      | 1.98  |  |
| -20 (- 4)                  | 1094                       | 276      | 321 | 143                 | 1.08                                  | 3.44          | 7.60                | 1.91      | 2.23  |  |
| -15 (+ 5)                  | 1359                       | 342      | 398 | 159                 | 1.18                                  | 4.28          | 8.51                | 2.14      | 2.49  |  |
| -10 (+14)                  | 1641                       | 414      | 481 | 174                 | 1.28                                  | 5.18          | 9.46                | 2.38      | 2.77  |  |
| -5 (+23)                   | 1930                       | 486      | 566 | 186                 | 1.41                                  | 6.10          | 10.41               | 2.62      | 3.05  |  |
| 0 (+32)                    | 2217                       | 559      | 650 | 194                 | 1.57                                  | 7.03          | 11.34               | 2.86      | 3.32  |  |

| CONDICIONES DE PRUEBA:     |                            | ASHRAE32 |     |                     | (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)                  | 457                        | 115      | 134 | 94                  | 0.72                                  | 1.43          | 4.86                | 1.23      | 1.43  |  |
| -30 (-22)                  | 605                        | 153      | 177 | 112                 | 0.89                                  | 1.90          | 5.44                | 1.37      | 1.59  |  |
| -25 (-13)                  | 798                        | 201      | 234 | 130                 | 1.04                                  | 2.50          | 6.13                | 1.54      | 1.80  |  |
| -20 (- 4)                  | 1026                       | 259      | 301 | 149                 | 1.17                                  | 3.22          | 6.89                | 1.74      | 2.02  |  |
| -15 (+ 5)                  | 1279                       | 322      | 375 | 166                 | 1.29                                  | 4.03          | 7.70                | 1.94      | 2.26  |  |
| -10 (+14)                  | 1547                       | 390      | 453 | 182                 | 1.43                                  | 4.88          | 8.53                | 2.15      | 2.50  |  |
| -5 (+23)                   | 1822                       | 459      | 534 | 195                 | 1.58                                  | 5.76          | 9.36                | 2.36      | 2.74  |  |
| 0 (+32)                    | 2093                       | 527      | 613 | 204                 | 1.76                                  | 6.64          | 10.15               | 2.56      | 2.97  |  |

**F - CARACTERÍSTICAS EXTERNAS**

|                                      |                |      |           |
|--------------------------------------|----------------|------|-----------|
| 1 Placa base                         |                |      |           |
| 2 Soporte de badeja                  | No             |      |           |
| 3 Tubos                              |                |      |           |
| 3.1 SUCCIÓN                          | 6.5            | [mm] | (0.256" ) |
| 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                          | 6.5            | [mm] | (0.256" ) |
| 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 |      |           |