

### DEFINICIÓN DEL COMPRESOR

|                              |                        |
|------------------------------|------------------------|
| Denominación                 | <b>VES D5C</b>         |
| Voltage / Frecuencia nominal | <b>230 V 40-150 Hz</b> |
| Código de Ingeniería         | <b>513907025</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 -5°C               | (-31°F para 23°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                      | 187 para 255 V                    | 187 para 255 V |
| 8.2 LBP (43°C Temperatura ambiente)     | Estática                      | 187 para 255 V                    | 187 para 255 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               | 5.19           | [cm <sup>3</sup> ] (0.317 cu.in) |
| 2.1 Diametro [mm]              | 21.000         |                                  |
| 2.2 Curso [mm]                 | 15.000         |                                  |
| 3 Carga de aceite              | 190            | [ml] (6.42 fl.oz.)               |
| 3.1 Aceites aprobados          |                |                                  |
| 3.2 Tipo/Viscosidad del aceite | ALQUILB / ISO5 |                                  |
| 4 Peso (com carga de aceite)   | 6.45           | [kg] (14.22 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                       | VCC3 1156 XXXXX/VES 2456 XX X X |                           |
| 3 Capacitor de Arranque                           | -                               | [µF(VAC minimo)]          |
| 4 Capacitor de marcha                             | -                               | [µF(VAC minimo)]          |
| 5 Protección del motor                            | INVERTER VES 2456X              |                           |
| 6 Resistencia del motor - bobina arranque         | 13.40                           | [Ω en 25°C (77°F)] +/- 8% |
| 7 Resistencia del motor - bobina marcha           | 13.40                           | [Ω en 25°C (77°F)] +/- 8% |
| 8 LRA - Corriente com rotor trabado (46/133 Hz)   | 2.10/2.10                       | [A] - Medido según UL 984 |
| 9 FLA - Corriente a plena carga L/MBP (46/133 Hz) | 2.10/2.10                       | [A] - Medido según UL 984 |
| 10 FLA - Corriente a plena carga HBP (46/133 Hz)  | -                               | [A] - Medido según UL 984 |
| 11 Institutos de aprobación                       | CCC - VDE                       |                           |

### D - PERFORMANCE - DATOS CHECK POINT

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| 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] |
| 116   | 29       | 34  | 19                                    | 0.18                           | 0.36   | 6.04   | 1.52      | 1.77  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V1600RPM</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] |
| 144   | 36       | 42  | 24                                    | 0.21                           | 0.45   | 6.10   | 1.54      | 1.79  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| 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] |
| 186   | 47       | 55  | 30                                    | 0.25                           | 0.58   | 6.28   | 1.58      | 1.84  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| 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] |
| 286   | 72       | 84  | 46                                    | 0.38                           | 0.90   | 6.19   | 1.56      | 1.81  |

|   |          |     |                                       |                                |  |  |           |       |
|---|----------|-----|---------------------------------------|--------------------------------|--|--|-----------|-------|
| CONDICIONES DE PRUEBA:<br><b>@220V4500RPM</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] |
| 430   | 108      | 126 | 73                                    | 0.57                           | 1.35   | 5.90   | 1.49      | 1.73  |

### 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)                  | 75                         | 19       | 22  | 13                  | 0.12                                  | 0.23          | 5.55                | 1.40      | 1.62  |  |
| -30 (-22)                  | 98                         | 25       | 29  | 15                  | 0.14                                  | 0.31          | 6.43                | 1.62      | 1.88  |  |
| -25 (-13)                  | 128                        | 32       | 38  | 17                  | 0.16                                  | 0.40          | 7.44                | 1.88      | 2.18  |  |
| -20 (- 4)                  | 166                        | 42       | 49  | 19                  | 0.18                                  | 0.52          | 8.66                | 2.18      | 2.54  |  |
| -15 (+ 5)                  | 214                        | 54       | 63  | 21                  | 0.19                                  | 0.67          | 10.15               | 2.56      | 2.97  |  |
| -10 (+14)                  | 271                        | 68       | 80  | 23                  | 0.20                                  | 0.86          | 11.95               | 3.01      | 3.50  |  |
| -5 (+23)                   | 341                        | 86       | 100 | 24                  | 0.21                                  | 1.08          | 14.15               | 3.57      | 4.15  |  |

| 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)                  | 61                         | 15       | 18  | 12                  | 0.12                                   | 0.19          | 4.98                | 1.25      | 1.46  |  |
| -30 (-22)                  | 86                         | 22       | 25  | 15                  | 0.14                                   | 0.27          | 5.81                | 1.46      | 1.70  |  |
| -25 (-13)                  | 117                        | 30       | 34  | 18                  | 0.16                                   | 0.37          | 6.66                | 1.68      | 1.95  |  |
| -20 (- 4)                  | 155                        | 39       | 46  | 20                  | 0.19                                   | 0.49          | 7.59                | 1.91      | 2.23  |  |
| -15 (+ 5)                  | 202                        | 51       | 59  | 23                  | 0.21                                   | 0.63          | 8.67                | 2.18      | 2.54  |  |
| -10 (+14)                  | 258                        | 65       | 75  | 26                  | 0.23                                   | 0.81          | 9.94                | 2.50      | 2.91  |  |
| -5 (+23)                   | 325                        | 82       | 95  | 28                  | 0.24                                   | 1.03          | 11.48               | 2.89      | 3.36  |  |

| 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)                  | 43                         | 11       | 13  | 12                  | 0.12                                   | 0.13          | 3.64                | 0.92      | 1.07  |  |
| -30 (-22)                  | 71                         | 18       | 21  | 15                  | 0.14                                   | 0.22          | 4.70                | 1.18      | 1.38  |  |
| -25 (-13)                  | 103                        | 26       | 30  | 18                  | 0.17                                   | 0.32          | 5.66                | 1.43      | 1.66  |  |
| -20 (- 4)                  | 142                        | 36       | 42  | 22                  | 0.20                                   | 0.45          | 6.58                | 1.66      | 1.93  |  |
| -15 (+ 5)                  | 188                        | 47       | 55  | 25                  | 0.22                                   | 0.59          | 7.51                | 1.89      | 2.20  |  |
| -10 (+14)                  | 243                        | 61       | 71  | 28                  | 0.25                                   | 0.77          | 8.53                | 2.15      | 2.50  |  |
| -5 (+23)                   | 308                        | 78       | 90  | 32                  | 0.27                                   | 0.97          | 9.69                | 2.44      | 2.84  |  |

### 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)                  | 87                         | 22       | 25  | 15                  | 0.14                                  | 0.27          | 5.63                | 1.42      | 1.65  |  |
| -30 (-22)                  | 117                        | 30       | 34  | 18                  | 0.17                                  | 0.37          | 6.45                | 1.63      | 1.89  |  |
| -25 (-13)                  | 157                        | 40       | 46  | 21                  | 0.19                                  | 0.49          | 7.50                | 1.89      | 2.20  |  |
| -20 (- 4)                  | 207                        | 52       | 61  | 24                  | 0.21                                  | 0.65          | 8.78                | 2.21      | 2.57  |  |
| -15 (+ 5)                  | 268                        | 68       | 79  | 26                  | 0.23                                  | 0.84          | 10.33               | 2.60      | 3.03  |  |
| -10 (+14)                  | 341                        | 86       | 100 | 28                  | 0.24                                  | 1.08          | 12.16               | 3.06      | 3.56  |  |
| -5 (+23)                   | 427                        | 108      | 125 | 30                  | 0.25                                  | 1.35          | 14.31               | 3.61      | 4.19  |  |

| 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)                  | 80                         | 20       | 23  | 15                  | 0.14                                   | 0.25          | 5.25                | 1.32      | 1.54  |  |
| -30 (-22)                  | 108                        | 27       | 32  | 18                  | 0.17                                   | 0.34          | 5.91                | 1.49      | 1.73  |  |
| -25 (-13)                  | 146                        | 37       | 43  | 22                  | 0.19                                   | 0.46          | 6.71                | 1.69      | 1.97  |  |
| -20 (- 4)                  | 194                        | 49       | 57  | 25                  | 0.22                                   | 0.61          | 7.66                | 1.93      | 2.25  |  |
| -15 (+ 5)                  | 252                        | 64       | 74  | 29                  | 0.25                                   | 0.79          | 8.80                | 2.22      | 2.58  |  |
| -10 (+14)                  | 322                        | 81       | 94  | 32                  | 0.27                                   | 1.02          | 10.14               | 2.56      | 2.97  |  |
| -5 (+23)                   | 404                        | 102      | 118 | 35                  | 0.29                                   | 1.28          | 11.71               | 2.95      | 3.43  |  |

| 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)                  | 63                         | 16       | 18  | 15                  | 0.13                                   | 0.20          | 4.23                | 1.06      | 1.24  |  |
| -30 (-22)                  | 91                         | 23       | 27  | 18                  | 0.16                                   | 0.28          | 4.97                | 1.25      | 1.46  |  |
| -25 (-13)                  | 128                        | 32       | 38  | 22                  | 0.20                                   | 0.40          | 5.76                | 1.45      | 1.69  |  |
| -20 (- 4)                  | 175                        | 44       | 51  | 26                  | 0.23                                   | 0.55          | 6.62                | 1.67      | 1.94  |  |
| -15 (+ 5)                  | 233                        | 59       | 68  | 31                  | 0.26                                   | 0.73          | 7.58                | 1.91      | 2.22  |  |
| -10 (+14)                  | 301                        | 76       | 88  | 35                  | 0.29                                   | 0.95          | 8.67                | 2.18      | 2.54  |  |
| -5 (+23)                   | 382                        | 96       | 112 | 39                  | 0.32                                   | 1.21          | 9.90                | 2.49      | 2.90  |  |

### 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)                  | 112                        | 28       | 33  | 19                  | 0.17                                 | 0.35          | 5.75                | 1.45      | 1.68  |  |
| -30 (-22)                  | 149                        | 38       | 44  | 23                  | 0.20                                 | 0.47          | 6.56                | 1.65      | 1.92  |  |
| -25 (-13)                  | 199                        | 50       | 58  | 26                  | 0.23                                 | 0.62          | 7.56                | 1.91      | 2.22  |  |
| -20 (- 4)                  | 260                        | 66       | 76  | 30                  | 0.25                                 | 0.82          | 8.79                | 2.21      | 2.57  |  |
| -15 (+ 5)                  | 336                        | 85       | 98  | 33                  | 0.27                                 | 1.06          | 10.26               | 2.59      | 3.01  |  |
| -10 (+14)                  | 426                        | 107      | 125 | 36                  | 0.29                                 | 1.34          | 12.01               | 3.03      | 3.52  |  |
| -5 (+23)                   | 532                        | 134      | 156 | 38                  | 0.31                                 | 1.68          | 14.06               | 3.54      | 4.12  |  |

| 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)                  | 101                        | 26       | 30  | 20                  | 0.17                                  | 0.32          | 5.21                | 1.31      | 1.53  |  |
| -30 (-22)                  | 138                        | 35       | 41  | 23                  | 0.21                                  | 0.43          | 5.93                | 1.49      | 1.74  |  |
| -25 (-13)                  | 186                        | 47       | 55  | 27                  | 0.24                                  | 0.58          | 6.76                | 1.70      | 1.98  |  |
| -20 (- 4)                  | 247                        | 62       | 72  | 32                  | 0.27                                  | 0.78          | 7.73                | 1.95      | 2.27  |  |
| -15 (+ 5)                  | 321                        | 81       | 94  | 36                  | 0.30                                  | 1.01          | 8.87                | 2.23      | 2.60  |  |
| -10 (+14)                  | 409                        | 103      | 120 | 40                  | 0.32                                  | 1.29          | 10.20               | 2.57      | 2.99  |  |
| -5 (+23)                   | 512                        | 129      | 150 | 44                  | 0.35                                  | 1.62          | 11.75               | 2.96      | 3.44  |  |

| 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)                  | 85                         | 21       | 25  | 19                  | 0.17                                  | 0.26          | 4.39                | 1.11      | 1.29  |  |
| -30 (-22)                  | 120                        | 30       | 35  | 23                  | 0.21                                  | 0.38          | 5.15                | 1.30      | 1.51  |  |
| -25 (-13)                  | 166                        | 42       | 49  | 28                  | 0.24                                  | 0.52          | 5.94                | 1.50      | 1.74  |  |
| -20 (- 4)                  | 224                        | 56       | 66  | 33                  | 0.28                                  | 0.70          | 6.78                | 1.71      | 1.99  |  |
| -15 (+ 5)                  | 295                        | 74       | 87  | 38                  | 0.31                                  | 0.93          | 7.71                | 1.94      | 2.26  |  |
| -10 (+14)                  | 381                        | 96       | 112 | 43                  | 0.35                                  | 1.20          | 8.76                | 2.21      | 2.57  |  |
| -5 (+23)                   | 481                        | 121      | 141 | 48                  | 0.39                                  | 1.52          | 9.94                | 2.50      | 2.91  |  |

### 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)                  | 167                        | 42       | 49  | 30                  | 0.26                                  | 0.52          | 5.54                | 1.40      | 1.62  |  |
| -30 (-22)                  | 230                        | 58       | 67  | 35                  | 0.29                                  | 0.72          | 6.52                | 1.64      | 1.91  |  |
| -25 (-13)                  | 310                        | 78       | 91  | 41                  | 0.34                                  | 0.97          | 7.57                | 1.91      | 2.22  |  |
| -20 (- 4)                  | 408                        | 103      | 120 | 47                  | 0.38                                  | 1.28          | 8.73                | 2.20      | 2.56  |  |
| -15 (+ 5)                  | 523                        | 132      | 153 | 52                  | 0.42                                  | 1.65          | 10.02               | 2.53      | 2.94  |  |
| -10 (+14)                  | 655                        | 165      | 192 | 57                  | 0.45                                  | 2.07          | 11.50               | 2.90      | 3.37  |  |
| -5 (+23)                   | 805                        | 203      | 236 | 61                  | 0.48                                  | 2.54          | 13.20               | 3.33      | 3.87  |  |

| 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)                  | 148                        | 37       | 43  | 30                  | 0.25                                   | 0.46          | 4.90                | 1.24      | 1.44  |  |
| -30 (-22)                  | 207                        | 52       | 61  | 36                  | 0.30                                   | 0.65          | 5.79                | 1.46      | 1.70  |  |
| -25 (-13)                  | 285                        | 72       | 84  | 42                  | 0.35                                   | 0.90          | 6.70                | 1.69      | 1.96  |  |
| -20 (- 4)                  | 381                        | 96       | 112 | 49                  | 0.40                                   | 1.20          | 7.68                | 1.94      | 2.25  |  |
| -15 (+ 5)                  | 495                        | 125      | 145 | 56                  | 0.45                                   | 1.56          | 8.77                | 2.21      | 2.57  |  |
| -10 (+14)                  | 626                        | 158      | 183 | 63                  | 0.49                                   | 1.97          | 9.99                | 2.52      | 2.93  |  |
| -5 (+23)                   | 775                        | 195      | 227 | 68                  | 0.53                                   | 2.45          | 11.39               | 2.87      | 3.34  |  |

| 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)                  | 126                        | 32       | 37  | 30                  | 0.26                                   | 0.39          | 4.18                | 1.05      | 1.22  |  |
| -30 (-22)                  | 181                        | 46       | 53  | 36                  | 0.31                                   | 0.57          | 5.02                | 1.26      | 1.47  |  |
| -25 (-13)                  | 254                        | 64       | 75  | 44                  | 0.36                                   | 0.80          | 5.85                | 1.47      | 1.71  |  |
| -20 (- 4)                  | 347                        | 87       | 102 | 52                  | 0.42                                   | 1.09          | 6.70                | 1.69      | 1.96  |  |
| -15 (+ 5)                  | 457                        | 115      | 134 | 60                  | 0.47                                   | 1.44          | 7.62                | 1.92      | 2.23  |  |
| -10 (+14)                  | 586                        | 148      | 172 | 68                  | 0.53                                   | 1.85          | 8.64                | 2.18      | 2.53  |  |
| -5 (+23)                   | 734                        | 185      | 215 | 75                  | 0.58                                   | 2.32          | 9.80                | 2.47      | 2.87  |  |

### 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)                  | 258                        | 65       | 76  | 50                  | 0.39                                 | 0.81          | 5.19                | 1.31      | 1.52  |  |
| -30 (-22)                  | 344                        | 87       | 101 | 57                  | 0.45                                 | 1.08          | 6.00                | 1.51      | 1.76  |  |
| -25 (-13)                  | 452                        | 114      | 132 | 66                  | 0.51                                 | 1.42          | 6.89                | 1.74      | 2.02  |  |
| -20 (- 4)                  | 583                        | 147      | 171 | 74                  | 0.57                                 | 1.83          | 7.88                | 1.99      | 2.31  |  |
| -15 (+ 5)                  | 744                        | 188      | 218 | 82                  | 0.63                                 | 2.34          | 9.02                | 2.27      | 2.64  |  |
| -10 (+14)                  | 939                        | 237      | 275 | 91                  | 0.69                                 | 2.96          | 10.31               | 2.60      | 3.02  |  |
| -5 (+23)                   | 1170                       | 295      | 343 | 99                  | 0.75                                 | 3.70          | 11.80               | 2.97      | 3.46  |  |

| 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)                  | 228                        | 58       | 67  | 49                  | 0.39                                  | 0.71          | 4.67                | 1.18      | 1.37  |  |
| -30 (-22)                  | 319                        | 80       | 93  | 59                  | 0.46                                  | 1.00          | 5.43                | 1.37      | 1.59  |  |
| -25 (-13)                  | 427                        | 108      | 125 | 69                  | 0.54                                  | 1.34          | 6.24                | 1.57      | 1.83  |  |
| -20 (- 4)                  | 557                        | 140      | 163 | 79                  | 0.61                                  | 1.75          | 7.11                | 1.79      | 2.08  |  |
| -15 (+ 5)                  | 714                        | 180      | 209 | 88                  | 0.68                                  | 2.25          | 8.08                | 2.04      | 2.37  |  |
| -10 (+14)                  | 902                        | 227      | 264 | 98                  | 0.75                                  | 2.85          | 9.17                | 2.31      | 2.69  |  |
| -5 (+23)                   | 1125                       | 284      | 330 | 108                 | 0.82                                  | 3.56          | 10.41               | 2.62      | 3.05  |  |

| 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)                  | 176                        | 44       | 52  | 44                  | 0.35                                  | 0.55          | 3.99                | 1.01      | 1.17  |  |
| -30 (-22)                  | 272                        | 69       | 80  | 56                  | 0.45                                  | 0.85          | 4.79                | 1.21      | 1.40  |  |
| -25 (-13)                  | 385                        | 97       | 113 | 69                  | 0.54                                  | 1.21          | 5.58                | 1.41      | 1.64  |  |
| -20 (- 4)                  | 517                        | 130      | 151 | 81                  | 0.63                                  | 1.62          | 6.41                | 1.61      | 1.88  |  |
| -15 (+ 5)                  | 673                        | 170      | 197 | 93                  | 0.71                                  | 2.12          | 7.28                | 1.84      | 2.13  |  |
| -10 (+14)                  | 858                        | 216      | 251 | 104                 | 0.79                                  | 2.71          | 8.24                | 2.08      | 2.42  |  |
| -5 (+23)                   | 1075                       | 271      | 315 | 116                 | 0.87                                  | 3.40          | 9.31                | 2.35      | 2.73  |  |

**F - CARACTERÍSTICAS EXTERNAS**

|                                      |                |      |           |
|--------------------------------------|----------------|------|-----------|
| 1 Placa base                         |                |      |           |
| 2 Soporte de badeja                  | Sí             |      |           |
| 3 Tubos                              |                |      |           |
| 3.1 SUCCIÓN                          | 6.2            | [mm] | (0.244" ) |
| 3.1.1 Material                       |                |      |           |
| 3.1.2 Forma                          |                |      |           |
| 3.2 DESCARGA                         | 5.1            | [mm] | (0.201" ) |
| 3.2.1 Material                       |                |      |           |
| 3.2.2 Forma                          |                |      |           |
| 3.3 PROCESO                          | 6              | [mm] | (0.236" ) |
| 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 |      |           |