

DEFINICIÓN DEL COMPRESOR

| | |
|------------------------------|------------------------|
| Denominación | VES H9C |
| Voltage / Frecuencia nominal | 230 V 32-150 Hz |
| Código de Ingeniería | 513907412 |

A - APLICACIÓN / CONDICIONES LÍMITES DE TRABAJO

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

B - DATOS MECÁNICOS

| | | |
|--------------------------------|----------------|----------------------------------|
| 1 Referencia Comercial | 1/5 | [hp] |
| 2 Desplazamiento | 9.04 | [cm ³] (0.552 cu.in) |
| 2.1 Diametro [mm] | 24.000 | |
| 2.2 Curso [mm] | 20.000 | |
| 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) | 6.55 | [kg] (14.44 lb.) |
| 5 Carga de nitrógeno | - | [kgf/cm ²] |

C - DATOS ELÉCTRICOS

| | | |
|---|----------------------------------|---------------------------|
| 1 Voltaje nominal/Frecuencia/Numero de fases | 230 V 31.7-150 Hz 3~ (Trifásico) | |
| 2 Tipo de Dispositivo de Arranque | Inverter | |
| 2.1 Dispositivo de Arranque | CF02D03 M 0.0 X | |
| 3 Capacitor de Arranque | - | [µF(VAC minimo)] |
| 4 Capacitor de marcha | - | [µF(VAC minimo)] |
| 5 Protección del motor | CF02D03 | |
| 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: @220V1300RPM | | | ASHRAELBP32 Estática | | Temperatura de evaporación (Temp. de condensación) | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 237 | 60 | 69 | 33 | 0.28 | 0.74 | 7.12 | 1.79 | 2.09 |

| | | | | | | | | |
|---|----------|-----|---------------------------------------|--------------------------------|---|--|-----------|-------|
| CONDICIONES DE PRUEBA: @220V1600RPM | | | ASHRAELBP32 Estática | | Temperatura de evaporación (Temp. de condensación) | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 295 | 74 | 86 | 41 | 0.33 | 0.93 | 7.18 | 1.81 | 2.10 |

| | | | | | | | | |
|---|----------|-----|---------------------------------------|--------------------------------|---|--|-----------|-------|
| CONDICIONES DE PRUEBA: @220V2000RPM | | | ASHRAELBP32 Estática | | Temperatura de evaporación (Temp. de condensación) | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 365 | 92 | 107 | 51 | 0.39 | 1.15 | 7.12 | 1.79 | 2.09 |

| | | | | | | | | |
|---|----------|-----|---------------------------------------|--------------------------------|---|--|-----------|-------|
| CONDICIONES DE PRUEBA: @220V4000RPM | | | ASHRAELBP32 Estática | | Temperatura de evaporación (Temp. de condensación) | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 718 | 181 | 210 | 110 | 0.87 | 2.25 | 6.51 | 1.64 | 1.91 |

| | | | | | | | | |
|---|----------|-----|---------------------------------------|--------------------------------|---|--|-----------|-------|
| CONDICIONES DE PRUEBA: @220V4500RPM | | | ASHRAELBP32 Estática | | Temperatura de evaporación (Temp. de condensación) | -23.3°C (-9.94°F) 54.4°C (129.92°F) | | |
| Capacidad de refrigeración +/- 5% | | | Consumo de potencia +/- 5% | Consumo de corriente +/- 5% | Flujo de masa +/- 5% | RANGO DE EFICIENCIA +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 741 | 187 | 217 | 115 | 0.96 | 2.33 | 6.44 | 1.62 | 1.89 |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V950RPM | | 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) | 102 | 26 | 30 | 15 | 0.14 | 0.32 | 6.88 | 1.73 | 2.02 | |
| -30 (-22) | 136 | 34 | 40 | 17 | 0.16 | 0.43 | 7.83 | 1.97 | 2.30 | |
| -25 (-13) | 178 | 45 | 52 | 20 | 0.18 | 0.56 | 8.90 | 2.24 | 2.61 | |
| -20 (- 4) | 228 | 58 | 67 | 23 | 0.19 | 0.72 | 10.13 | 2.55 | 2.97 | |
| -15 (+ 5) | 288 | 73 | 84 | 25 | 0.20 | 0.91 | 11.61 | 2.93 | 3.40 | |
| -10 (+14) | 359 | 90 | 105 | 27 | 0.21 | 1.13 | 13.39 | 3.37 | 3.92 | |
| -5 (+23) | 442 | 111 | 129 | 28 | 0.22 | 1.40 | 15.53 | 3.91 | 4.55 | |
| 0 (+32) | 538 | 136 | 158 | 29 | 0.23 | 1.71 | 18.11 | 4.56 | 5.31 | |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|--|---------------|---------------------|-----------|-------|--|
| @220V950RPM | | 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) | 94 | 24 | 28 | 16 | 0.14 | 0.29 | 6.06 | 1.53 | 1.78 | |
| -30 (-22) | 128 | 32 | 37 | 18 | 0.17 | 0.40 | 6.94 | 1.75 | 2.03 | |
| -25 (-13) | 169 | 43 | 50 | 22 | 0.19 | 0.53 | 7.83 | 1.97 | 2.29 | |
| -20 (- 4) | 218 | 55 | 64 | 25 | 0.21 | 0.69 | 8.80 | 2.22 | 2.58 | |
| -15 (+ 5) | 278 | 70 | 81 | 28 | 0.23 | 0.87 | 9.92 | 2.50 | 2.91 | |
| -10 (+14) | 348 | 88 | 102 | 31 | 0.25 | 1.10 | 11.24 | 2.83 | 3.29 | |
| -5 (+23) | 430 | 108 | 126 | 34 | 0.27 | 1.36 | 12.84 | 3.24 | 3.76 | |
| 0 (+32) | 526 | 133 | 154 | 36 | 0.30 | 1.67 | 14.78 | 3.72 | 4.33 | |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|--|---------------|---------------------|-----------|-------|--|
| @220V950RPM | | 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) | 86 | 22 | 25 | 16 | 0.14 | 0.27 | 5.22 | 1.32 | 1.53 | |
| -30 (-22) | 118 | 30 | 35 | 19 | 0.17 | 0.37 | 6.13 | 1.54 | 1.80 | |
| -25 (-13) | 158 | 40 | 46 | 23 | 0.20 | 0.50 | 6.97 | 1.76 | 2.04 | |
| -20 (- 4) | 206 | 52 | 60 | 27 | 0.23 | 0.65 | 7.79 | 1.96 | 2.28 | |
| -15 (+ 5) | 264 | 67 | 77 | 30 | 0.25 | 0.83 | 8.66 | 2.18 | 2.54 | |
| -10 (+14) | 333 | 84 | 98 | 34 | 0.28 | 1.05 | 9.65 | 2.43 | 2.83 | |
| -5 (+23) | 414 | 104 | 121 | 38 | 0.31 | 1.31 | 10.82 | 2.73 | 3.17 | |
| 0 (+32) | 508 | 128 | 149 | 42 | 0.35 | 1.61 | 12.24 | 3.08 | 3.59 | |

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) | 139 | 35 | 41 | 20 | 0.17 | 0.44 | 6.81 | 1.72 | 1.99 | |
| -30 (-22) | 187 | 47 | 55 | 24 | 0.20 | 0.58 | 7.80 | 1.96 | 2.28 | |
| -25 (-13) | 244 | 61 | 71 | 27 | 0.23 | 0.76 | 8.87 | 2.23 | 2.60 | |
| -20 (- 4) | 313 | 79 | 92 | 31 | 0.25 | 0.98 | 10.09 | 2.54 | 2.96 | |
| -15 (+ 5) | 395 | 100 | 116 | 34 | 0.28 | 1.24 | 11.54 | 2.91 | 3.38 | |
| -10 (+14) | 492 | 124 | 144 | 37 | 0.31 | 1.55 | 13.29 | 3.35 | 3.89 | |
| -5 (+23) | 606 | 153 | 178 | 39 | 0.34 | 1.92 | 15.40 | 3.88 | 4.51 | |
| 0 (+32) | 738 | 186 | 216 | 40 | 0.38 | 2.34 | 17.95 | 4.52 | 5.26 | |

| 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) | 129 | 32 | 38 | 21 | 0.21 | 0.40 | 6.05 | 1.53 | 1.77 | |
| -30 (-22) | 176 | 44 | 51 | 25 | 0.23 | 0.55 | 6.94 | 1.75 | 2.03 | |
| -25 (-13) | 232 | 58 | 68 | 30 | 0.25 | 0.73 | 7.84 | 1.97 | 2.30 | |
| -20 (- 4) | 300 | 76 | 88 | 34 | 0.26 | 0.94 | 8.80 | 2.22 | 2.58 | |
| -15 (+ 5) | 381 | 96 | 112 | 38 | 0.28 | 1.20 | 9.90 | 2.50 | 2.90 | |
| -10 (+14) | 478 | 120 | 140 | 43 | 0.31 | 1.51 | 11.22 | 2.83 | 3.29 | |
| -5 (+23) | 591 | 149 | 173 | 46 | 0.34 | 1.87 | 12.81 | 3.23 | 3.75 | |
| 0 (+32) | 723 | 182 | 212 | 49 | 0.39 | 2.29 | 14.76 | 3.72 | 4.33 | |

| 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) | 117 | 29 | 34 | 22 | 0.21 | 0.37 | 5.23 | 1.32 | 1.53 | |
| -30 (-22) | 162 | 41 | 47 | 26 | 0.24 | 0.51 | 6.13 | 1.55 | 1.80 | |
| -25 (-13) | 216 | 54 | 63 | 31 | 0.26 | 0.68 | 6.96 | 1.75 | 2.04 | |
| -20 (- 4) | 282 | 71 | 83 | 36 | 0.29 | 0.89 | 7.76 | 1.96 | 2.28 | |
| -15 (+ 5) | 362 | 91 | 106 | 42 | 0.32 | 1.14 | 8.63 | 2.17 | 2.53 | |
| -10 (+14) | 457 | 115 | 134 | 47 | 0.36 | 1.44 | 9.62 | 2.43 | 2.82 | |
| -5 (+23) | 568 | 143 | 166 | 52 | 0.41 | 1.80 | 10.81 | 2.73 | 3.17 | |
| 0 (+32) | 698 | 176 | 205 | 57 | 0.48 | 2.21 | 12.27 | 3.09 | 3.60 | |

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) | 172 | 43 | 50 | 25 | 0.23 | 0.54 | 6.79 | 1.71 | 1.99 | |
| -30 (-22) | 230 | 58 | 67 | 30 | 0.25 | 0.72 | 7.74 | 1.95 | 2.27 | |
| -25 (-13) | 300 | 76 | 88 | 34 | 0.27 | 0.94 | 8.79 | 2.22 | 2.58 | |
| -20 (- 4) | 385 | 97 | 113 | 39 | 0.29 | 1.21 | 10.01 | 2.52 | 2.93 | |
| -15 (+ 5) | 486 | 123 | 142 | 43 | 0.31 | 1.53 | 11.45 | 2.89 | 3.36 | |
| -10 (+14) | 606 | 153 | 178 | 46 | 0.33 | 1.91 | 13.18 | 3.32 | 3.86 | |
| -5 (+23) | 746 | 188 | 219 | 49 | 0.35 | 2.36 | 15.26 | 3.85 | 4.47 | |
| 0 (+32) | 908 | 229 | 266 | 50 | 0.38 | 2.88 | 17.76 | 4.47 | 5.20 | |

| 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) | 159 | 40 | 47 | 26 | 0.26 | 0.50 | 6.06 | 1.53 | 1.78 | |
| -30 (-22) | 216 | 54 | 63 | 31 | 0.27 | 0.68 | 6.92 | 1.74 | 2.03 | |
| -25 (-13) | 285 | 72 | 84 | 36 | 0.29 | 0.89 | 7.80 | 1.96 | 2.28 | |
| -20 (- 4) | 369 | 93 | 108 | 42 | 0.32 | 1.16 | 8.75 | 2.21 | 2.57 | |
| -15 (+ 5) | 469 | 118 | 138 | 47 | 0.35 | 1.48 | 9.85 | 2.48 | 2.89 | |
| -10 (+14) | 588 | 148 | 172 | 53 | 0.39 | 1.86 | 11.16 | 2.81 | 3.27 | |
| -5 (+23) | 727 | 183 | 213 | 57 | 0.44 | 2.30 | 12.73 | 3.21 | 3.73 | |
| 0 (+32) | 889 | 224 | 260 | 61 | 0.50 | 2.82 | 14.63 | 3.69 | 4.29 | |

| 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) | 145 | 37 | 42 | 27 | 0.27 | 0.45 | 5.27 | 1.33 | 1.54 | |
| -30 (-22) | 199 | 50 | 58 | 33 | 0.28 | 0.62 | 6.14 | 1.55 | 1.80 | |
| -25 (-13) | 266 | 67 | 78 | 38 | 0.30 | 0.83 | 6.95 | 1.75 | 2.04 | |
| -20 (- 4) | 347 | 88 | 102 | 45 | 0.32 | 1.09 | 7.75 | 1.95 | 2.27 | |
| -15 (+ 5) | 445 | 112 | 131 | 52 | 0.36 | 1.40 | 8.61 | 2.17 | 2.52 | |
| -10 (+14) | 562 | 142 | 165 | 58 | 0.41 | 1.77 | 9.59 | 2.42 | 2.81 | |
| -5 (+23) | 699 | 176 | 205 | 65 | 0.48 | 2.21 | 10.76 | 2.71 | 3.15 | |
| 0 (+32) | 858 | 216 | 251 | 71 | 0.56 | 2.72 | 12.17 | 3.07 | 3.57 | |

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) | 215 | 54 | 63 | 32 | 0.25 | 0.67 | 6.74 | 1.70 | 1.97 | |
| -30 (-22) | 287 | 72 | 84 | 37 | 0.28 | 0.90 | 7.65 | 1.93 | 2.24 | |
| -25 (-13) | 375 | 94 | 110 | 43 | 0.32 | 1.18 | 8.67 | 2.18 | 2.54 | |
| -20 (- 4) | 481 | 121 | 141 | 49 | 0.36 | 1.51 | 9.86 | 2.48 | 2.89 | |
| -15 (+ 5) | 608 | 153 | 178 | 54 | 0.40 | 1.91 | 11.28 | 2.84 | 3.30 | |
| -10 (+14) | 758 | 191 | 222 | 59 | 0.44 | 2.39 | 12.98 | 3.27 | 3.80 | |
| -5 (+23) | 933 | 235 | 273 | 62 | 0.48 | 2.95 | 15.03 | 3.79 | 4.40 | |
| 0 (+32) | 1136 | 286 | 333 | 64 | 0.52 | 3.60 | 17.47 | 4.40 | 5.12 | |

| 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) | 199 | 50 | 58 | 33 | 0.25 | 0.62 | 6.03 | 1.52 | 1.77 | |
| -30 (-22) | 270 | 68 | 79 | 39 | 0.30 | 0.84 | 6.86 | 1.73 | 2.01 | |
| -25 (-13) | 356 | 90 | 104 | 46 | 0.35 | 1.12 | 7.71 | 1.94 | 2.26 | |
| -20 (- 4) | 461 | 116 | 135 | 53 | 0.40 | 1.45 | 8.65 | 2.18 | 2.53 | |
| -15 (+ 5) | 587 | 148 | 172 | 60 | 0.46 | 1.85 | 9.73 | 2.45 | 2.85 | |
| -10 (+14) | 735 | 185 | 215 | 67 | 0.51 | 2.32 | 11.02 | 2.78 | 3.23 | |
| -5 (+23) | 909 | 229 | 266 | 73 | 0.57 | 2.87 | 12.57 | 3.17 | 3.68 | |
| 0 (+32) | 1110 | 280 | 325 | 77 | 0.63 | 3.52 | 14.43 | 3.64 | 4.23 | |

| 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) | 181 | 46 | 53 | 34 | 0.27 | 0.57 | 5.29 | 1.33 | 1.55 | |
| -30 (-22) | 248 | 63 | 73 | 41 | 0.32 | 0.78 | 6.12 | 1.54 | 1.79 | |
| -25 (-13) | 332 | 84 | 97 | 48 | 0.37 | 1.04 | 6.90 | 1.74 | 2.02 | |
| -20 (- 4) | 434 | 109 | 127 | 57 | 0.42 | 1.36 | 7.69 | 1.94 | 2.25 | |
| -15 (+ 5) | 556 | 140 | 163 | 65 | 0.48 | 1.75 | 8.54 | 2.15 | 2.50 | |
| -10 (+14) | 701 | 177 | 206 | 74 | 0.54 | 2.21 | 9.51 | 2.40 | 2.79 | |
| -5 (+23) | 872 | 220 | 256 | 82 | 0.60 | 2.76 | 10.65 | 2.68 | 3.12 | |
| 0 (+32) | 1070 | 270 | 314 | 89 | 0.66 | 3.39 | 12.03 | 3.03 | 3.53 | |

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) | 320 | 81 | 94 | 50 | 0.34 | 1.00 | 6.42 | 1.62 | 1.88 | |
| -30 (-22) | 428 | 108 | 125 | 59 | 0.45 | 1.34 | 7.27 | 1.83 | 2.13 | |
| -25 (-13) | 560 | 141 | 164 | 68 | 0.53 | 1.76 | 8.22 | 2.07 | 2.41 | |
| -20 (- 4) | 719 | 181 | 211 | 77 | 0.60 | 2.26 | 9.33 | 2.35 | 2.73 | |
| -15 (+ 5) | 908 | 229 | 266 | 86 | 0.65 | 2.86 | 10.64 | 2.68 | 3.12 | |
| -10 (+14) | 1132 | 285 | 332 | 93 | 0.70 | 3.57 | 12.23 | 3.08 | 3.58 | |
| -5 (+23) | 1393 | 351 | 408 | 98 | 0.76 | 4.40 | 14.15 | 3.57 | 4.15 | |
| 0 (+32) | 1696 | 427 | 497 | 102 | 0.83 | 5.37 | 16.46 | 4.15 | 4.82 | |

| 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) | 296 | 75 | 87 | 51 | 0.37 | 0.93 | 5.83 | 1.47 | 1.71 | |
| -30 (-22) | 401 | 101 | 118 | 61 | 0.49 | 1.26 | 6.60 | 1.66 | 1.93 | |
| -25 (-13) | 530 | 134 | 155 | 72 | 0.59 | 1.66 | 7.39 | 1.86 | 2.17 | |
| -20 (- 4) | 686 | 173 | 201 | 83 | 0.67 | 2.16 | 8.26 | 2.08 | 2.42 | |
| -15 (+ 5) | 873 | 220 | 256 | 94 | 0.74 | 2.75 | 9.27 | 2.33 | 2.72 | |
| -10 (+14) | 1094 | 276 | 321 | 104 | 0.81 | 3.45 | 10.46 | 2.64 | 3.07 | |
| -5 (+23) | 1353 | 341 | 396 | 114 | 0.89 | 4.28 | 11.92 | 3.00 | 3.49 | |
| 0 (+32) | 1653 | 417 | 484 | 121 | 0.98 | 5.24 | 13.68 | 3.45 | 4.01 | |

| 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) | 267 | 67 | 78 | 52 | 0.36 | 0.84 | 5.15 | 1.30 | 1.51 | |
| -30 (-22) | 368 | 93 | 108 | 62 | 0.51 | 1.15 | 5.94 | 1.50 | 1.74 | |
| -25 (-13) | 492 | 124 | 144 | 74 | 0.63 | 1.54 | 6.67 | 1.68 | 1.95 | |
| -20 (- 4) | 643 | 162 | 188 | 87 | 0.74 | 2.02 | 7.40 | 1.86 | 2.17 | |
| -15 (+ 5) | 825 | 208 | 242 | 101 | 0.84 | 2.60 | 8.19 | 2.06 | 2.40 | |
| -10 (+14) | 1041 | 262 | 305 | 114 | 0.94 | 3.29 | 9.09 | 2.29 | 2.66 | |
| -5 (+23) | 1295 | 326 | 379 | 127 | 1.05 | 4.10 | 10.17 | 2.56 | 2.98 | |
| 0 (+32) | 1590 | 401 | 466 | 139 | 1.18 | 5.04 | 11.49 | 2.90 | 3.37 | |

E - PERFORMANCE - CURVAS

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 35°C (+95°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|--------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V4000RPM | | 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) | 420 | 106 | 123 | 71 | 0.59 | 1.31 | 5.92 | 1.49 | 1.73 | |
| -30 (-22) | 563 | 142 | 165 | 84 | 0.68 | 1.76 | 6.69 | 1.69 | 1.96 | |
| -25 (-13) | 736 | 185 | 216 | 98 | 0.78 | 2.31 | 7.54 | 1.90 | 2.21 | |
| -20 (- 4) | 945 | 238 | 277 | 111 | 0.89 | 2.97 | 8.53 | 2.15 | 2.50 | |
| -15 (+ 5) | 1194 | 301 | 350 | 123 | 1.00 | 3.76 | 9.71 | 2.45 | 2.84 | |
| -10 (+14) | 1488 | 375 | 436 | 134 | 1.09 | 4.69 | 11.13 | 2.80 | 3.26 | |
| -5 (+23) | 1833 | 462 | 537 | 142 | 1.16 | 5.80 | 12.85 | 3.24 | 3.77 | |
| 0 (+32) | 2233 | 563 | 654 | 147 | 1.20 | 7.08 | 14.93 | 3.76 | 4.38 | |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 45°C (+113°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V4000RPM | | 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) | 386 | 97 | 113 | 71 | 0.59 | 1.21 | 5.44 | 1.37 | 1.59 | |
| -30 (-22) | 525 | 132 | 154 | 85 | 0.70 | 1.65 | 6.14 | 1.55 | 1.80 | |
| -25 (-13) | 695 | 175 | 204 | 101 | 0.84 | 2.18 | 6.86 | 1.73 | 2.01 | |
| -20 (- 4) | 900 | 227 | 264 | 117 | 0.98 | 2.83 | 7.64 | 1.92 | 2.24 | |
| -15 (+ 5) | 1145 | 289 | 336 | 134 | 1.12 | 3.60 | 8.54 | 2.15 | 2.50 | |
| -10 (+14) | 1435 | 362 | 421 | 149 | 1.25 | 4.53 | 9.62 | 2.42 | 2.82 | |
| -5 (+23) | 1776 | 448 | 520 | 163 | 1.36 | 5.62 | 10.93 | 2.75 | 3.20 | |
| 0 (+32) | 2171 | 547 | 636 | 174 | 1.43 | 6.88 | 12.52 | 3.16 | 3.67 | |

| CONDICIONES DE PRUEBA: | | ASHRAE32 | | | (Temp. de condensación 55°C (+131°F)) | | | | | |
|----------------------------|----------------------------|----------|-----|---------------------|---------------------------------------|---------------|---------------------|-----------|-------|--|
| @220V4000RPM | | 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) | 347 | 87 | 102 | 71 | 0.56 | 1.09 | 4.88 | 1.23 | 1.43 | |
| -30 (-22) | 479 | 121 | 140 | 86 | 0.70 | 1.50 | 5.59 | 1.41 | 1.64 | |
| -25 (-13) | 642 | 162 | 188 | 103 | 0.85 | 2.02 | 6.25 | 1.57 | 1.83 | |
| -20 (- 4) | 840 | 212 | 246 | 122 | 1.01 | 2.64 | 6.90 | 1.74 | 2.02 | |
| -15 (+ 5) | 1078 | 272 | 316 | 142 | 1.18 | 3.39 | 7.61 | 1.92 | 2.23 | |
| -10 (+14) | 1361 | 343 | 399 | 161 | 1.33 | 4.29 | 8.42 | 2.12 | 2.47 | |
| -5 (+23) | 1694 | 427 | 496 | 180 | 1.46 | 5.36 | 9.40 | 2.37 | 2.75 | |
| 0 (+32) | 2082 | 525 | 610 | 197 | 1.56 | 6.60 | 10.59 | 2.67 | 3.10 | |

F - CARACTERÍSTICAS EXTERNAS

| | | | |
|--------------------------------------|----------------|------|-----------|
| 1 Placa base | | | |
| 2 Soporte de badeja | No | | |
| 3 Tubos | | | |
| 3.1 SUCCIÓN | 8.2 | [mm] | (0.323") |
| 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 | | |