

COMPRESSOR DEFINITION

| | |
|---------------------------|-----------------|
| Designation | T 6222GK |
| Nominal Voltage/Frequency | 220-240 V 50 Hz |
| Engineering Number | 936VA41 |

A - APPLICATION / LIMIT WORKING CONDITIONS

| | | | |
|--|---|-----------------------------------|-----------|
| 1 Type | Hermetic reciprocating compressor | | |
| 2 Refrigerant | R-404A | | |
| 3 Nominal voltage and frequency | 220-240 / 50 | [V / Hz] | |
| 4 Application type | Medium Back Pressure (Commercial Compressors) | | |
| 4.1 Evaporating temperature range | -20°C to 0°C | (-4°F to 32°F) | |
| 5 Motor type | CSCR | | |
| 6 Starting torque | HST - High starting torque | | |
| 7 Expansion device | Capillary tube or Expansion valve | | |
| 8 Compressor cooling | Operating voltage range | | |
| | | 50 Hz | 60 Hz |
| 8.1 LBP (32°C Ambient temperature) | - | - | - |
| 8.2 LBP (43°C Ambient temperature) | - | - | - |
| 8.3 HBP (32°C Ambient temperature) | - | - | - |
| 8.4 HBP (43°C Ambient temperature) | - | - | - |
| 9 Maximum condensing pressures/temperature | | | |
| 9.1 Operating (gauge) | 25.7 | [kgf/cm ²] (365 psig) | / °C - °F |
| 9.2 Peak (gauge) | 28.7 | [kgf/cm ²] (408 psig) | / °C - °F |
| 10 Maximum winding temperature | 130 | [°C] | |

B - MECHANICAL DATA

| | | |
|-------------------------------|---------------|--|
| 1 Commercial designation | 1 | [hp] |
| 2 Displacement | 20.44 | [cm ³] (1.247 cu.in) |
| 2.1 Bore [mm] | 36.990 | |
| 2.2 Stroke [mm] | 19.030 | |
| 3 Lubricant charge | 550 | [ml] (18.60 fl.oz.) |
| 3.1 Lubricants approved | | |
| 3.2 Lubricants type/viscosity | ESTER / ISO22 | |
| 4 Weight (with oil charge) | 17 | [kg] (37.48 lb.) |
| 5 Nitrogen charge | 0.2 to 0.3 | [kgf/cm ²] (2.84 to 4.27 psig) |

C - ELETRICAL DATA

| | | |
|--|------------------------------------|------------------------------------|
| 1 Nominal Voltage/Frequency/Number of Phases | 220-240 V 50 Hz 1 ~ (Single phase) | |
| 2 Starting device type | Voltage Relay | |
| 2.1 Starting device | 3ARR3B4AA3 | |
| 3 Start capacitor | 43-53(330) | [µF(VAC minimum)] |
| 4 Run capacitor | 15(450) | [µF(VAC minimum)] |
| 5 Motor protection | T0748/C9 | |
| 6 Start winding resistance | 10.15 | [Ω at 25°C (77°F)] +/- 8% |
| 7 Run winding resistance | 2.80 | [Ω at 25°C (77°F)] +/- 8% |
| 8 LRA - Locked rotor amperage (50 Hz) | 29.50 | [A] - Measured according to UL 984 |
| 9 FLA - Full load amperage L/MBP (50 Hz) | 6.20 | [A] - Measured according to UL 984 |
| 10 FLA - Full Load Amperage HBP (50 Hz) | - | [A] - Measured according to UL 984 |
| 11 Approval boards certification | IMQ | |

D - PERFORMANCE - CHECK POINT DATA

| | | | | | | | | |
|-------------------------------|----------|------|-----------------------------|-------------------------------|--|---------------------------|--------------------------------------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAEHBP46 Fan | | Evaporating temperature (Condensing temperature | | 7.2°C (44.96°F) 54.4°C (129.92°F) | |
| Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| 9880 | 2490 | 2895 | 1318 | 6.20 | 81.34 | 7.50 | 1.89 | 2.20 |

E - PERFORMANCE - CURVES

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|---------------------------------------|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE46 Fan | | (Condensing temperature 35°C (+95°F)) | | | | | |
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -20 | (- 4) | 4420 | 1114 | 1295 | 693 | 3.37 | 28.06 | 6.37 | 1.61 | 1.87 |
| -15 | (+ 5) | 5634 | 1420 | 1651 | 772 | 3.71 | 35.96 | 7.30 | 1.84 | 2.14 |
| -10 | (+14) | 7069 | 1781 | 2071 | 849 | 4.04 | 45.40 | 8.33 | 2.10 | 2.44 |
| -5 | (+23) | 8725 | 2199 | 2557 | 924 | 4.38 | 56.45 | 9.44 | 2.38 | 2.77 |
| 0 | (+32) | 10602 | 2672 | 3107 | 999 | 4.72 | 69.20 | 10.61 | 2.67 | 3.11 |
| +5 | (+41) | 12700 | 3200 | 3721 | 1074 | 5.06 | 83.72 | 11.83 | 2.98 | 3.47 |
| +10 | (+50) | 15019 | 3785 | 4401 | 1150 | 5.40 | 100.09 | 13.08 | 3.30 | 3.83 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE46 Fan | | (Condensing temperature 45°C (+113°F)) | | | | | |
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -20 | (- 4) | 3666 | 924 | 1074 | 709 | 3.43 | 25.68 | 5.17 | 1.30 | 1.52 |
| -15 | (+ 5) | 4750 | 1197 | 1392 | 803 | 3.84 | 33.48 | 5.91 | 1.49 | 1.73 |
| -10 | (+14) | 6018 | 1517 | 1763 | 895 | 4.25 | 42.71 | 6.72 | 1.69 | 1.97 |
| -5 | (+23) | 7472 | 1883 | 2189 | 987 | 4.67 | 53.46 | 7.57 | 1.91 | 2.22 |
| 0 | (+32) | 9110 | 2296 | 2669 | 1079 | 5.09 | 65.81 | 8.45 | 2.13 | 2.47 |
| +5 | (+41) | 10933 | 2755 | 3204 | 1173 | 5.52 | 79.82 | 9.33 | 2.35 | 2.73 |
| +10 | (+50) | 12941 | 3261 | 3792 | 1269 | 5.95 | 95.58 | 10.19 | 2.57 | 2.99 |

| | | | | | | | | | | |
|-------------------------------|-------|----------------------------|-----------------|------|--|-------------------------------|-------------------------|---------------------------|-----------|-------|
| TEST CONDITIONS: @220V50Hz | | | ASHRAE46 Fan | | (Condensing temperature 55°C (+131°F)) | | | | | |
| Evaporating temperature | | Cooling capacity +/- 5% | | | Power consumption +/- 5% | Current consumption +/- 5% | Gas flow rate +/- 5% | EFFICIENCY RATE +/- 7% | | |
| °C | (°F) | [Btu/h] | [kcal/h] | [W] | [W] | [A] | [kg/h] | [Btu/Wh] | [kcal/Wh] | [W/W] |
| -20 | (- 4) | 2912 | 734 | 853 | 725 | 3.49 | 22.90 | 4.02 | 1.01 | 1.18 |
| -15 | (+ 5) | 3865 | 974 | 1133 | 833 | 3.97 | 30.60 | 4.64 | 1.17 | 1.36 |
| -10 | (+14) | 4967 | 1252 | 1456 | 941 | 4.46 | 39.63 | 5.28 | 1.33 | 1.55 |
| -5 | (+23) | 6218 | 1567 | 1822 | 1049 | 4.96 | 50.08 | 5.93 | 1.49 | 1.74 |
| 0 | (+32) | 7618 | 1920 | 2232 | 1159 | 5.46 | 62.02 | 6.57 | 1.66 | 1.92 |
| +5 | (+41) | 9166 | 2310 | 2686 | 1271 | 5.97 | 75.52 | 7.17 | 1.81 | 2.10 |
| +10 | (+50) | 10863 | 2738 | 3183 | 1387 | 6.49 | 90.67 | 7.72 | 1.95 | 2.26 |

F - EXTERNAL CHARACTERISTICS

| | | | |
|-------------------------|-------------------|------|--------------------------|
| 1 Base plate | European Standard | | |
| 2 Tray holder | No | | |
| 3 Connectors | | | |
| 3.1 SUCTION | 9.6 +0.07/+0.00 | [mm] | (0.378" +0.003"/+0.000") |
| 3.1.1 Material | Copper | | |
| 3.1.2 Shape | Vertical | | |
| 3.2 DISCHARGE | 6.42 +0.08/+0.00 | [mm] | (0.253" +0.003"/+0.000") |
| 3.2.1 Material | Copper | | |
| 3.2.2 Shape | Vertical | | |
| 3.3 PROCESS | 9.6 +0.07/+0.00 | [mm] | (0.378" +0.003"/+0.000") |
| 3.3.1 Material | Copper | | |
| 3.3.2 Shape | Vertical | | |
| 3.4 Oil cooler (Copper) | No | [mm] | |
| 3.5 Connector sealing | Rubber Plugs | | |