

**COMPRESSOR DEFINITION**

Designation	<b>NT 6226GK</b>
Nominal Voltage/Frequency	<b>220-240 V 50 Hz</b>
Engineering Number	<b>923BA02</b>

**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 R404A)		
4.1 Evaporating temperature range	-20°C to 0°C	(-4°F to 32°F)	
5 Motor type	CSCR		
6 Starting torque	HST - Hight starting torque		
7 Expantion 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 <sup>2</sup> ] (365 psig)	/ °C - °F
9.2 Peak (gauge)	28.7	[kgf/cm <sup>2</sup> ] (408 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

**B - MECHANICAL DATA**

1 Commercial designation	1+	[hp]
2 Displacement	22.37	[cm <sup>3</sup> ] (1.365 cu.in)
2.1 Bore	36.990	
2.2 Stroke	10.415	
3 Lubricant charge	450	[ml] (15.22 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	17.5	[kg] (38.58 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm <sup>2</sup> ](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	3ARR3B6AC3	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	20(440)	[µF(VAC minimum)]
5 Motor protection (external)	T0828/C9	
6 Start winding resistance	8.40	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.70	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[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: <b>@220V50Hz</b>			<b>ASHRAEHBP46</b> <b>Fan</b>		Evaporating temperature <b>7.2°C (44.96°F)</b> (Condensing temperature <b>54.4°C (129.92°F)</b> )			
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]
11450	2885	3355	1376	6.60	94.26	8.32	2.10	2.44

**E - PERFORMANCE - CURVES**

TEST CONDITIONS: <b>@220V50Hz</b>			<b>ASHRAE46</b> <b>Fan</b>		(Condensing temperature <b>35°C (+95°F)</b> )				
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]
<b>-20 (- 4)</b>	5259	1325	1541	759	3.80	33.38	6.93	1.75	2.03
<b>-15 (+ 5)</b>	6578	1658	1928	824	4.08	41.99	7.99	2.01	2.34
<b>-10 (+14)</b>	8178	2061	2396	889	4.37	52.53	9.19	2.32	2.69
<b>-5 (+23)</b>	10039	2530	2942	956	4.67	64.96	10.50	2.65	3.08
<b>0 (+32)</b>	12143	3060	3558	1022	4.97	79.26	11.88	2.99	3.48

TEST CONDITIONS: <b>@220V50Hz</b>			<b>ASHRAE46</b> <b>Fan</b>		(Condensing temperature <b>45°C (+113°F)</b> )				
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]
<b>-20 (- 4)</b>	4486	1130	1314	815	4.05	31.42	5.50	1.39	1.61
<b>-15 (+ 5)</b>	5631	1419	1650	893	4.39	39.69	6.30	1.59	1.85
<b>-10 (+14)</b>	7023	1770	2058	972	4.74	49.84	7.22	1.82	2.12
<b>-5 (+23)</b>	8642	2178	2532	1050	5.09	61.83	8.23	2.07	2.41
<b>0 (+32)</b>	10469	2638	3068	1129	5.45	75.63	9.28	2.34	2.72

TEST CONDITIONS: <b>@220V50Hz</b>			<b>ASHRAE46</b> <b>Fan</b>		(Condensing temperature <b>55°C (+131°F)</b> )				
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]
<b>-20 (- 4)</b>	3767	949	1104	865	4.27	29.62	4.35	1.10	1.27
<b>-15 (+ 5)</b>	4736	1193	1388	960	4.69	37.50	4.93	1.24	1.45
<b>-10 (+14)</b>	5916	1491	1734	1055	5.12	47.20	5.61	1.41	1.64
<b>-5 (+23)</b>	7289	1837	2136	1149	5.55	58.69	6.35	1.60	1.86
<b>0 (+32)</b>	8836	2227	2589	1243	5.98	71.94	7.10	1.79	2.08

**F - EXTERNAL CHARACTERISTICS**

1 Base plate	Universal		
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		