

### COMPRESSOR DEFINITION

Designation	<b>NT 6226GK</b>
Nominal Voltage/Frequency	<b>115 V 60 Hz</b>
Engineering Number	<b>923BG02</b>

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	115 / 60	[ V / Hz ]	
4 Application type	Medium Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-20°C to 10°C	(-4°F to 50°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 temperature			
9.1 Operating (gauge)	25.2	[kgf/cm <sup>2</sup> ] (358 psig)	/ °C - °F
9.2 Peak (gauge)	28.3	[kgf/cm <sup>2</sup> ] (402 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 [mm]	36.990	
2.2 Stroke [mm]	20.830	
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	115 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B3P3	
3 Start capacitor	243-292(250)	[µF(VAC minimum)]
4 Run capacitor	40(440)	[µF(VAC minimum)]
5 Motor protection	15HM1958	
6 Start winding resistance	2.39	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	0.36	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	77.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	UL	

### D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @115V60Hz			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]
13254	3340	3884	1830	17.10	109.12	7.24	1.82	2.12

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V60Hz			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)	6344	1599	1859	950	9.68	40.26	6.67	1.68	1.95
-15	(+ 5)	7818	1970	2291	1049	10.70	49.93	7.45	1.88	2.18
-10	(+14)	9527	2401	2792	1154	11.67	61.20	8.26	2.08	2.42
-5	(+23)	11476	2892	3363	1265	12.59	74.24	9.07	2.29	2.66
0	(+32)	13670	3445	4006	1383	13.48	89.21	9.89	2.49	2.90
+5	(+41)	16116	4061	4723	1507	14.35	106.28	10.69	2.69	3.13
+10	(+50)	18820	4743	5515	1640	15.19	125.61	11.48	2.89	3.36

TEST CONDITIONS: @115V60Hz			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)	5393	1359	1580	1000	9.94	37.79	5.40	1.36	1.58
-15	(+ 5)	6729	1696	1972	1115	11.00	47.43	6.04	1.52	1.77
-10	(+14)	8276	2086	2425	1236	12.08	58.72	6.70	1.69	1.96
-5	(+23)	10041	2530	2942	1361	13.16	71.82	7.38	1.86	2.16
0	(+32)	12029	3031	3525	1492	14.27	86.90	8.06	2.03	2.36
+5	(+41)	14246	3590	4175	1630	15.41	104.12	8.74	2.20	2.56
+10	(+50)	16698	4208	4893	1774	16.59	123.65	9.41	2.37	2.76

TEST CONDITIONS: @115V60Hz			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)	4532	1142	1328	1042	10.31	35.64	4.35	1.10	1.27
-15	(+ 5)	5677	1431	1664	1177	11.40	44.94	4.82	1.21	1.41
-10	(+14)	7012	1767	2055	1316	12.55	55.93	5.32	1.34	1.56
-5	(+23)	8541	2152	2503	1459	13.77	68.78	5.85	1.47	1.72
0	(+32)	10271	2588	3010	1607	15.08	83.65	6.39	1.61	1.87
+5	(+41)	12207	3076	3577	1760	16.47	100.70	6.94	1.75	2.03
+10	(+50)	14355	3618	4206	1920	17.95	120.11	7.48	1.88	2.19

### 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	6.42 +0.08/+0.00	[mm]	(0.253" +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		