COMPRESSOR DEFINITION

Designation	**NT 6226GK**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**513308803**

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 10°C	(-4°F to 50°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 (32ºC Ambient temperature)	-	-	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	25.2	[kgf/cm²] (358 psig)	/ ºC - ºF
9.2 Peak	28.3	[kgf/cm²] (402 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1+	[hp]
2 Displacement	22.37	[cm³] (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)	16.65	[kg] (36.71 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (2.84 to 4.27 psig)

C - ELECTRICAL 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	RVA403C-123	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	20(400)	[µF(VAC minimum)]
5 Motor protection	T0828/C9	
6 Start winding resistance	7.56	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	2.22	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	37.00	[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	CCC - VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: **@220V50Hz**			**EN12900MBP Fan**		Evaporating temperature (Condensing temperature	**-10°C (14°F) 45°C (113°F))**		
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
5978	1506	1752	980	4.78	52.62	6.10	1.54	1.79

E - PERFORMANCE - CURVES

TEST CONDITIONS: **@220V50Hz**		**EN12900 Fan**					(Condensing temperature **35ºC (+95ºF))**			
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	4643	1170	1360	764	3.82	35.23	6.07	1.53	1.78
-15	**(+ 5)**	5822	1467	1706	831	4.12	44.63	7.01	1.77	2.06
-10	**(+14)**	7222	1820	2116	898	4.41	55.82	8.05	2.03	2.36
-5	**(+23)**	8845	2229	2592	966	4.71	69.03	9.16	2.31	2.68
0	**(+32)**	10690	2694	3132	1035	5.03	84.48	10.32	2.60	3.02
+5	**(+41)**	12757	3215	3738	1106	5.35	102.39	11.52	2.90	3.38
+10	**(+50)**	15046	3792	4409	1180	5.69	122.97	12.75	3.21	3.74

TEST CONDITIONS: **@220V50Hz**		**EN12900 Fan**					(Condensing temperature **45ºC (+113ºF))**			
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	3801	958	1114	821	4.07	32.83	4.63	1.17	1.36
-15	**(+ 5)**	4804	1211	1408	901	4.42	41.89	5.33	1.34	1.56
-10	**(+14)**	5990	1509	1755	980	4.77	52.71	6.11	1.54	1.79
-5	**(+23)**	7359	1855	2156	1059	5.13	65.52	6.95	1.75	2.04
0	**(+32)**	8912	2246	2611	1138	5.48	80.52	7.83	1.97	2.30
+5	**(+41)**	10648	2683	3120	1218	5.85	97.93	8.74	2.20	2.56
+10	**(+50)**	12567	3167	3683	1299	6.23	117.98	9.67	2.44	2.83

TEST CONDITIONS: **@220V50Hz**		**EN12900 Fan**					(Condensing temperature **55ºC (+131ºF))**			
Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	3072	774	900	869	4.30	31.22	3.54	0.89	1.04
-15	**(+ 5)**	3890	980	1140	967	4.73	39.94	4.02	1.01	1.18
-10	**(+14)**	4852	1223	1422	1062	5.15	50.38	4.56	1.15	1.34
-5	**(+23)**	5959	1502	1746	1156	5.58	62.76	5.15	1.30	1.51
0	**(+32)**	7210	1817	2113	1249	6.00	77.30	5.78	1.46	1.69
+5	**(+41)**	8606	2169	2522	1342	6.44	94.22	6.42	1.62	1.88
+10	**(+50)**	10146	2557	2973	1435	6.88	113.73	7.06	1.78	2.07

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		