

COMPRESSOR DEFINITION

Designation	NT 6226GKV
Nominal Voltage/Frequency	115 V 60 Hz
Engineering Number	923AG02

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	25.2	[kgf/cm ²] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm ²] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1	[hp]
2 Displacement	22.37	[cm ³] (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 ²] (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	RVA2AE3C-105	
3 Start capacitor	243-292(250)	[µF(VAC minimum)]
4 Run capacitor	40(400)	[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)	17.92	[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]
13258	3341	3885	1827	17.11	109.15	7.26	1.83	2.13

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)	6404	1614	1876	951	9.64	40.63	6.73	1.70	1.97
-15	(+ 5)	7907	1993	2317	1049	10.58	50.50	7.54	1.90	2.21
-10	(+14)	9640	2429	2825	1153	11.54	61.93	8.36	2.11	2.45
-5	(+23)	11603	2924	3400	1264	12.50	75.07	9.17	2.31	2.69
0	(+32)	13796	3476	4042	1383	13.44	90.03	9.98	2.51	2.92
+5	(+41)	16218	4087	4752	1508	14.37	106.94	10.76	2.71	3.15
+10	(+50)	18870	4755	5529	1640	15.25	125.95	11.51	2.90	3.37

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)	5448	1373	1596	1005	9.93	38.18	5.43	1.37	1.59
-15	(+ 5)	6799	1713	1992	1118	10.91	47.93	6.09	1.53	1.78
-10	(+14)	8367	2108	2452	1237	11.96	59.36	6.76	1.70	1.98
-5	(+23)	10151	2558	2974	1362	13.07	72.60	7.45	1.88	2.18
0	(+32)	12150	3062	3560	1493	14.21	87.76	8.14	2.05	2.38
+5	(+41)	14366	3620	4210	1630	15.38	104.99	8.82	2.22	2.58
+10	(+50)	16798	4233	4922	1773	16.56	124.41	9.47	2.39	2.78

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)	4588	1156	1344	1044	10.36	36.07	4.39	1.11	1.29
-15	(+ 5)	5732	1444	1680	1177	11.38	45.38	4.87	1.23	1.43
-10	(+14)	7079	1784	2074	1315	12.52	56.48	5.38	1.36	1.58
-5	(+23)	8628	2174	2528	1458	13.76	69.49	5.92	1.49	1.73
0	(+32)	10380	2616	3042	1607	15.09	84.53	6.46	1.63	1.89
+5	(+41)	12334	3108	3614	1761	16.49	101.74	7.01	1.77	2.05
+10	(+50)	14491	3652	4246	1920	17.96	121.24	7.55	1.90	2.21

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		