

COMPRESSOR DEFINITION

Designation	NT 6226GKV
Nominal Voltage/Frequency	115 V 60 Hz
Engineering Number	923AG08

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 - Hight 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			ARIMBP Fan		Evaporating temperature (Condensing temperature		-6.7°C (19.94°F) 48.9°C (120.02°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]
6719	1693	1969	1371	13.05	72.41	4.90	1.23	1.44

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V60Hz		ARI4 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)	5196	1309	1522	1043	10.24	39.36	4.97	1.25	1.46
-15	(+ 5)	6392	1611	1873	1160	11.27	60.60	5.51	1.39	1.62
-10	(+14)	7798	1965	2285	1270	12.25	75.30	6.15	1.55	1.80
-5	(+23)	9414	2372	2759	1378	13.17	79.36	6.83	1.72	2.00
0	(+32)	11240	2832	3294	1491	13.96	68.70	7.53	1.90	2.21
+5	(+41)	13277	3346	3890	1615	14.62	39.24	8.21	2.07	2.41
+10	(+50)	15525	3912	4549	1758	15.08	- 13.11	8.85	2.23	2.59

TEST CONDITIONS: @115V60Hz		ARI4 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)	4136	1042	1212	1100	10.79	36.54	3.77	0.95	1.10
-15	(+ 5)	5156	1299	1511	1239	11.93	57.22	4.17	1.05	1.22
-10	(+14)	6397	1612	1874	1363	12.98	71.80	4.70	1.19	1.38
-5	(+23)	7861	1981	2303	1475	13.90	76.20	5.33	1.34	1.56
0	(+32)	9548	2406	2798	1585	14.66	66.33	6.02	1.52	1.77
+5	(+41)	11460	2888	3358	1697	15.22	38.12	6.74	1.70	1.98
+10	(+50)	13595	3426	3984	1819	15.54	- 12.51	7.46	1.88	2.19

TEST CONDITIONS: @115V60Hz		ARI4 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)	3359	846	984	1124	10.94	34.34	2.98	0.75	0.87
-15	(+ 5)	4049	1020	1186	1295	12.36	54.34	3.13	0.79	0.92
-10	(+14)	4974	1253	1457	1440	13.64	68.70	3.45	0.87	1.01
-5	(+23)	6135	1546	1798	1567	14.74	73.34	3.91	0.99	1.15
0	(+32)	7532	1898	2207	1682	15.63	64.17	4.48	1.13	1.31
+5	(+41)	9166	2310	2686	1791	16.27	37.11	5.13	1.29	1.50
+10	(+50)	11037	2781	3234	1901	16.63	- 11.91	5.81	1.46	1.70

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal
2 Tray holder	No
3 Connectors	
3.1 SUCTION	12.7 +0.25/-0.25 [mm] (0.500" +0.010"/-0.010")
3.1.1 Material	Steel
3.1.2 Shape	ROTOLOCK(Ex. thr. 1"-14UNS-2A)
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