

COMPRESSOR DEFINITION

Designation	NT 6226GKV
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	923AD08

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	208-230 / 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	CSIR		
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 - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	3ARR2KCP171S	
3 Start capacitor	88-108(330)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0815/C9	
6 Start winding resistance	5.94	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.18	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	-	[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: @208V60Hz			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]
12590	3173	3689	2089	11.83	103.65	6.03	1.52	1.77

E - PERFORMANCE - CURVES

TEST CONDITIONS: @208V60Hz			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)	6209	1565	1819	1105	7.52	39.41	5.61	1.41	1.64
-15	(+ 5)	7569	1907	2218	1198	7.87	48.34	6.33	1.59	1.85
-10	(+14)	9201	2319	2696	1304	8.28	59.10	7.06	1.78	2.07
-5	(+23)	11112	2800	3256	1423	8.75	71.88	7.81	1.97	2.29
0	(+32)	13307	3353	3899	1554	9.29	86.83	8.56	2.16	2.51
+5	(+41)	15794	3980	4628	1697	9.92	104.16	9.31	2.34	2.73
+10	(+50)	18580	4682	5444	1852	10.64	124.02	10.03	2.53	2.94

TEST CONDITIONS: @208V60Hz			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)	5310	1338	1556	1160	7.63	37.19	4.57	1.15	1.34
-15	(+ 5)	6510	1640	1908	1278	8.10	45.89	5.10	1.28	1.49
-10	(+14)	7946	2002	2328	1406	8.63	56.39	5.66	1.43	1.66
-5	(+23)	9626	2426	2821	1544	9.21	68.86	6.24	1.57	1.83
0	(+32)	11557	2912	3386	1691	9.87	83.49	6.84	1.72	2.00
+5	(+41)	13743	3463	4027	1847	10.61	100.44	7.44	1.88	2.18
+10	(+50)	16194	4081	4745	2011	11.44	119.91	8.04	2.03	2.36

TEST CONDITIONS: @208V60Hz			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)	4441	1119	1301	1209	7.71	34.92	3.68	0.93	1.08
-15	(+ 5)	5469	1378	1603	1356	8.33	43.30	4.03	1.02	1.18
-10	(+14)	6699	1688	1963	1510	9.00	53.44	4.43	1.12	1.30
-5	(+23)	8137	2051	2384	1670	9.73	65.52	4.87	1.23	1.43
0	(+32)	9790	2467	2869	1837	10.53	79.73	5.33	1.34	1.56
+5	(+41)	11665	2940	3418	2010	11.41	96.23	5.81	1.46	1.70
+10	(+50)	13769	3470	4035	2189	12.38	115.20	6.30	1.59	1.84

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