

COMPRESSOR DEFINITION

Designation	NJ 6226Z
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	142HA14

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	High Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-15°C to 10°C	(5°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 pressures/temperature			
9.1 Operating (gauge)	16.2	[kgf/cm ²] (230 psig)	/ °C - °F
9.2 Peak (gauge)	20.6	[kgf/cm ²] (293 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1 1/4	[hp]
2 Displacement	34.38	[cm ³] (2.098 cu.in)
2.1 Bore [mm]	42.850	
2.2 Stroke [mm]	23.850	
3 Lubricant charge	750	[ml] (25.36 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	19.8	[kg] (43.65 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	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA4M3C-109	
3 Start capacitor	72-88(330)	[µF(VAC minimum)]
4 Run capacitor	17.5(440)	[µF(VAC minimum)]
5 Motor protection	T0335/C9	
6 Start winding resistance	8.70	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	2.00	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	31.00	[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 - IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			EN12900HBP Fan		Evaporating temperature (Condensing temperature		5°C (41°F) 50°C (122°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]
8906	2244	2610	1153	5.60	65.51	7.72	1.95	2.26

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		EN12900 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]
-15	(+5)	4888	1232	1432	697	3.68	30.31	7.01	1.77	2.05
-10	(+14)	6227	1569	1825	776	3.97	38.83	8.03	2.02	2.35
-5	(+23)	7736	1950	2267	851	4.26	48.47	9.10	2.29	2.67
0	(+32)	9453	2382	2770	927	4.56	59.57	10.19	2.57	2.99
+5	(+41)	11415	2877	3345	1009	4.86	72.48	11.30	2.85	3.31
+10	(+50)	13659	3442	4002	1101	5.17	87.54	12.42	3.13	3.64

TEST CONDITIONS: @220V50Hz		EN12900 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]
-15	(+5)	3899	983	1142	720	3.72	26.51	5.41	1.36	1.59
-10	(+14)	5104	1286	1496	820	4.10	34.89	6.22	1.57	1.82
-5	(+23)	6451	1626	1890	916	4.48	44.34	7.05	1.78	2.07
0	(+32)	7978	2010	2338	1010	4.88	55.21	7.90	1.99	2.32
+5	(+41)	9722	2450	2849	1109	5.29	67.84	8.77	2.21	2.57
+10	(+50)	11721	2954	3434	1216	5.70	82.59	9.64	2.43	2.82

TEST CONDITIONS: @220V50Hz		EN12900 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]
-15	(+5)	2958	745	867	708	3.76	22.37	4.19	1.06	1.23
-10	(+14)	4031	1016	1181	835	4.23	30.61	4.81	1.21	1.41
-5	(+23)	5218	1315	1529	955	4.71	39.88	5.46	1.38	1.60
0	(+32)	6556	1652	1921	1073	5.21	50.53	6.12	1.54	1.79
+5	(+41)	8084	2037	2369	1194	5.72	62.90	6.78	1.71	1.99
+10	(+50)	9839	2479	2883	1321	6.25	77.34	7.44	1.88	2.18

F - EXTERNAL CHARACTERISTICS

1 Base plate	American Standard		
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	8 +0.07/+0.00	[mm]	(0.315" +0.003"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Slanted J		
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		