COMPRESSOR DEFINITION

Designation	**NJ 6226Z**
Nominal Voltage/Frequency	**208-230 V 60 Hz**
Engineering Number	**142HD14**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	208-230 / 60	[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 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 pressures/temperature			
9.1 Operating (gauge)	16.2	[kgf/cm²] (230 psig)	/ ºC - ºF
9.2 Peak (gauge)	20.6	[kgf/cm²] (293 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	11/4	[hp]
2 Displacement	34.38	[cm³] (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)	19.9	[kg] (43.87 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 60 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	T0820/20	
6 Start winding resistance	8.47	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	1.51	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	40.00	[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]
11130	2805	3261	1445	7.23	72.16	7.70	1.94	2.26

E - PERFORMANCE - CURVES

TEST CONDITIONS: **@208V60Hz** — **ASHRAE46** **Fan** — (Condensing temperature **35ºC (+95ºF))**

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)**	5508	1388	1614	783	3.97	29.76	7.05	1.78	2.07
-10	**(+14)**	7180	1809	2104	886	4.44	38.97	8.11	2.04	2.38
-5	**(+23)**	9075	2287	2659	992	4.94	49.45	9.15	2.30	2.68
0	**(+32)**	11193	2821	3280	1100	5.45	61.26	10.17	2.56	2.98
+5	**(+41)**	13534	3411	3966	1209	5.98	74.46	11.19	2.82	3.28
+10	**(+50)**	16099	4057	4717	1317	6.54	89.10	12.21	3.08	3.58

TEST CONDITIONS: **@208V60Hz** — **ASHRAE46** **Fan** — (Condensing temperature **45ºC (+113ºF))**

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)**	4552	1147	1334	776	3.94	26.62	5.85	1.47	1.71
-10	**(+14)**	6021	1517	1764	897	4.51	35.31	6.70	1.69	1.96
-5	**(+23)**	7716	1944	2261	1026	5.11	45.41	7.52	1.89	2.20
0	**(+32)**	9636	2428	2824	1161	5.76	57.00	8.31	2.09	2.43
+5	**(+41)**	11782	2969	3452	1300	6.44	70.12	9.07	2.29	2.66
+10	**(+50)**	14154	3567	4147	1442	7.16	84.83	9.83	2.48	2.88

TEST CONDITIONS: **@208V60Hz** — **ASHRAE46** **Fan** — (Condensing temperature **55ºC (+131ºF))**

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)**	3442	867	1008	767	3.90	21.94	4.50	1.13	1.32
-10	**(+14)**	4777	1204	1400	904	4.54	30.54	5.29	1.33	1.55
-5	**(+23)**	6340	1598	1858	1053	5.25	40.71	6.02	1.52	1.76
0	**(+32)**	8131	2049	2383	1211	6.01	52.51	6.71	1.69	1.97
+5	**(+41)**	10151	2558	2974	1378	6.84	65.99	7.36	1.85	2.16
+10	**(+50)**	12399	3124	3633	1552	7.73	81.22	7.98	2.01	2.34

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		