

COMPRESSOR DEFINITION

Designation	J 6226Z
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	162HD04

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 - 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 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	890	[ml] (30.10 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	19.85	[kg] (43.76 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	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B10AA3	
3 Start capacitor	72-88(330)	[µF(VAC minimum)]
4 Run capacitor	17.5(450)	[µF(VAC minimum)]
5 Motor protection	T0736/C9	
6 Start winding resistance	8.47	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.51	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	43.00	[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)	8.00	[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]
11882	2994	3482	1525	7.34	77.04	7.79	1.96	2.28

E - PERFORMANCE - CURVES

TEST CONDITIONS: @208V50Hz		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]
-15	(+5)	6329	1595	1855	701	3.94	34.24	9.01	2.27	2.64
-10	(+14)	7589	1912	2224	798	4.44	41.18	9.53	2.40	2.79
-5	(+23)	9153	2307	2682	891	4.94	49.84	10.28	2.59	3.01
0	(+32)	11022	2778	3230	981	5.44	60.30	11.23	2.83	3.29
+5	(+41)	13195	3325	3867	1067	5.95	72.59	12.35	3.11	3.62
+10	(+50)	15673	3950	4592	1151	6.45	86.79	13.63	3.43	3.99

TEST CONDITIONS: @208V50Hz		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]
-15	(+5)	4858	1224	1424	689	3.93	28.36	7.04	1.77	2.06
-10	(+14)	6128	1544	1796	810	4.56	35.94	7.57	1.91	2.22
-5	(+23)	7627	1922	2235	928	5.19	44.93	8.22	2.07	2.41
0	(+32)	9355	2357	2741	1043	5.80	55.37	8.97	2.26	2.63
+5	(+41)	11310	2850	3314	1155	6.41	67.32	9.79	2.47	2.87
+10	(+50)	13494	3401	3954	1265	7.00	80.83	10.67	2.69	3.13

TEST CONDITIONS: @208V50Hz		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]
-15	(+5)	3332	840	976	677	3.92	21.24	4.93	1.24	1.45
-10	(+14)	4606	1161	1350	824	4.69	29.46	5.57	1.40	1.63
-5	(+23)	6033	1520	1768	967	5.44	38.75	6.23	1.57	1.82
0	(+32)	7613	1918	2231	1108	6.17	49.16	6.88	1.73	2.02
+5	(+41)	9345	2355	2738	1247	6.89	60.74	7.52	1.89	2.20
+10	(+50)	11230	2830	3291	1383	7.58	73.56	8.10	2.04	2.37

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]
-15 (+5)	7405	1866	2170	844	4.02	40.07	8.76	2.21	2.57	
-10 (+14)	8879	2238	2602	951	4.53	48.18	9.36	2.36	2.74	
-5 (+23)	10709	2699	3138	1054	5.04	58.32	10.17	2.56	2.98	
0 (+32)	12896	3250	3779	1154	5.56	70.55	11.16	2.81	3.27	
+5 (+41)	15438	3890	4524	1250	6.07	84.93	12.34	3.11	3.62	
+10 (+50)	18337	4621	5373	1343	6.58	101.54	13.66	3.44	4.00	

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]
-15 (+5)	5684	1432	1666	835	4.01	33.17	6.81	1.72	1.99	
-10 (+14)	7170	1807	2101	969	4.65	42.05	7.40	1.87	2.17	
-5 (+23)	8924	2249	2615	1100	5.29	52.57	8.11	2.04	2.38	
0 (+32)	10944	2758	3207	1227	5.92	64.78	8.91	2.25	2.61	
+5 (+41)	13232	3335	3877	1352	6.54	78.76	9.79	2.47	2.87	
+10 (+50)	15788	3979	4626	1474	7.14	94.57	10.71	2.70	3.14	

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]
-15 (+5)	3898	982	1142	826	4.00	24.85	4.73	1.19	1.39	
-10 (+14)	5390	1358	1579	988	4.78	34.47	5.43	1.37	1.59	
-5 (+23)	7059	1779	2069	1147	5.55	45.34	6.14	1.55	1.80	
0 (+32)	8907	2245	2610	1304	6.30	57.52	6.84	1.72	2.01	
+5 (+41)	10934	2755	3204	1458	7.03	71.07	7.52	1.89	2.20	
+10 (+50)	13139	3311	3850	1610	7.73	86.07	8.15	2.05	2.39	

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	9.6 +0.07/+0.00	[mm]	(0.378" +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		