

COMPRESSOR DEFINITION

Designation	NT U6234GSV
Nominal Voltage/Frequency	200-230 V 60 Hz
Engineering Number	926BZ50

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	200-230 / 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	3PHASE		
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 1/4	[hp]
2 Displacement	23.74	[cm ³] (1.449 cu.in)
2.1 Bore [mm]	38.100	
2.2 Stroke [mm]	20.830	
3 Lubricant charge	650	[ml] (21.98 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	18.32	[kg] (40.39 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	200-230 V 60 Hz 3 ~ (Three phase)	
2 Starting device type	3PHASE	
2.1 Starting device		
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0926/K9	
6 Start winding resistance	2.75	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.60	[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: @230V60Hz			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]	
8203	2067	2404	1365	4.54	88.40	6.01	1.51	1.76	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @230V60Hz		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)	6314	1591	1850	965	3.69	53.37	6.54	1.65	1.92
-15	(+ 5)	7845	1977	2299	1049	3.86	67.05	7.48	1.88	2.19
-10	(+14)	9580	2414	2807	1123	4.00	82.84	8.53	2.15	2.50
-5	(+23)	11529	2905	3378	1184	4.12	101.14	9.74	2.46	2.86
0	(+32)	13701	3453	4015	1230	4.20	122.37	11.13	2.81	3.26
+5	(+41)	16108	4059	4720	1259	4.24	146.94	12.73	3.21	3.73
+10	(+50)	18758	4727	5496	1269	4.23	175.25	14.55	3.67	4.26

TEST CONDITIONS: @230V60Hz		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)	5091	1283	1492	1024	3.80	49.71	4.98	1.25	1.46
-15	(+ 5)	6399	1613	1875	1137	4.03	63.21	5.63	1.42	1.65
-10	(+14)	7871	1984	2306	1238	4.24	78.83	6.35	1.60	1.86
-5	(+23)	9518	2399	2789	1327	4.43	96.97	7.17	1.81	2.10
0	(+32)	11350	2860	3326	1400	4.59	118.05	8.11	2.04	2.38
+5	(+41)	13376	3371	3919	1456	4.71	142.48	9.21	2.32	2.70
+10	(+50)	15606	3933	4573	1492	4.79	170.67	10.48	2.64	3.07

TEST CONDITIONS: @230V60Hz		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)	3764	949	1103	1047	3.84	44.23	3.59	0.90	1.05
-15	(+ 5)	4833	1218	1416	1192	4.14	57.57	4.06	1.02	1.19
-10	(+14)	6028	1519	1766	1326	4.43	73.04	4.55	1.15	1.33
-5	(+23)	7357	1854	2156	1446	4.70	91.05	5.09	1.28	1.49
0	(+32)	8832	2226	2588	1551	4.94	112.01	5.69	1.43	1.67
+5	(+41)	10462	2636	3066	1638	5.15	136.32	6.40	1.61	1.87
+10	(+50)	12257	3089	3592	1705	5.32	164.40	7.23	1.82	2.12

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	12.77 +0.08/+0.00	[mm]	(0.503" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
3.2 DISCHARGE	9.6 +0.07/+0.00	[mm]	(0.378" +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		