

### COMPRESSOR DEFINITION

Designation	NT U6240GSV
Nominal Voltage/Frequency	200-230 V 60 Hz
Engineering Number	926DZ50

### 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 - 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 <sup>2</sup> ] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm <sup>2</sup> ] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1 1/2	[hp]
2 Displacement	27.80	[cm <sup>3</sup> ] (1.696 cu.in)
2.1 Bore [mm]	38.100	
2.2 Stroke [mm]	24.400	
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)	18.3	[kg] (40.34 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm <sup>2</sup> ] (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	T0966/K9	
6 Start winding resistance	2.30	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.30	[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]
9485	2390	2779	1647	5.66	102.21	5.76	1.45	1.69

### 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)	7437	1874	2179	1184	4.26	62.87	6.28	1.58	1.84
-15	(+ 5)	9193	2317	2694	1286	4.66	78.57	7.15	1.80	2.10
-10	(+14)	11183	2818	3277	1379	5.09	96.69	8.11	2.04	2.38
-5	(+23)	13424	3383	3933	1465	5.32	117.76	9.17	2.31	2.69
0	(+32)	15934	4015	4669	1542	5.10	142.32	10.33	2.60	3.03
+5	(+41)	18732	4720	5489	1612	4.19	170.89	11.62	2.93	3.40
+10	(+50)	21835	5502	6398	1675	2.35	204.03	13.03	3.28	3.82

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)	6017	1516	1763	1260	4.65	58.74	4.78	1.20	1.40
-15	(+ 5)	7515	1894	2202	1392	5.18	74.23	5.40	1.36	1.58
-10	(+14)	9195	2317	2694	1514	5.64	92.09	6.07	1.53	1.78
-5	(+23)	11076	2791	3246	1625	5.77	112.85	6.81	1.72	2.00
0	(+32)	13176	3320	3861	1727	5.34	137.04	7.63	1.92	2.24
+5	(+41)	15512	3909	4545	1819	4.11	165.21	8.54	2.15	2.50
+10	(+50)	18103	4562	5305	1902	1.83	197.88	9.55	2.41	2.80

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)	4524	1140	1326	1299	5.12	53.16	3.48	0.88	1.02
-15	(+ 5)	5744	1447	1683	1469	5.69	68.42	3.91	0.99	1.15
-10	(+14)	7096	1788	2079	1625	6.06	85.99	4.37	1.10	1.28
-5	(+23)	8598	2167	2519	1770	6.00	106.41	4.86	1.22	1.42
0	(+32)	10268	2588	3009	1902	5.26	130.22	5.40	1.36	1.58
+5	(+41)	12124	3055	3553	2023	3.60	157.96	5.99	1.51	1.76
+10	(+50)	14184	3574	4156	2132	0.78	190.15	6.66	1.68	1.95

### 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		