

COMPRESSOR DEFINITION

Designation	NT U6238GSV
Nominal Voltage/Frequency	200-230 V 60 Hz
Engineering Number	926CZ50

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 1/2	[hp]
2 Displacement	26.21	[cm ³] (1.599 cu.in)
2.1 Bore [mm]	36.990	
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)	18.32	[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]
9113	2296	2670	1522	4.89	98.20	5.99	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)	7071	1782	2072	1095	3.92	59.78	6.46	1.63	1.89
-15	(+ 5)	8755	2206	2565	1185	4.10	74.81	7.39	1.86	2.17
-10	(+14)	10641	2682	3118	1267	4.28	92.01	8.40	2.12	2.46
-5	(+23)	12725	3207	3729	1343	4.44	111.65	9.47	2.39	2.78
0	(+32)	15001	3780	4396	1415	4.61	133.97	10.60	2.67	3.11
+5	(+41)	17464	4401	5117	1486	4.77	159.26	11.78	2.97	3.45
+10	(+50)	20108	5067	5892	1557	4.94	187.76	12.99	3.27	3.81

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)	5704	1437	1671	1174	4.09	55.69	4.86	1.22	1.42
-15	(+ 5)	7140	1799	2092	1295	4.34	70.52	5.51	1.39	1.62
-10	(+14)	8741	2203	2561	1403	4.58	87.54	6.23	1.57	1.83
-5	(+23)	10504	2647	3078	1502	4.80	107.01	6.99	1.76	2.05
0	(+32)	12421	3130	3640	1592	5.01	129.20	7.80	1.97	2.29
+5	(+41)	14488	3651	4245	1676	5.22	154.36	8.64	2.18	2.53
+10	(+50)	16700	4209	4894	1757	5.42	182.76	9.50	2.39	2.78

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)	4286	1080	1256	1213	4.17	50.35	3.53	0.89	1.04
-15	(+ 5)	5454	1374	1598	1376	4.52	64.98	3.96	1.00	1.16
-10	(+14)	6751	1701	1978	1522	4.85	81.81	4.44	1.12	1.30
-5	(+23)	8172	2059	2395	1653	5.15	101.12	4.95	1.25	1.45
0	(+32)	9711	2447	2846	1772	5.44	123.16	5.48	1.38	1.61
+5	(+41)	11363	2864	3330	1881	5.71	148.20	6.03	1.52	1.77
+10	(+50)	13123	3307	3845	1981	5.97	176.50	6.59	1.66	1.93

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		