

COMPRESSOR DEFINITION

Designation	NT U6232GKV
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	925AD50

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	208-230 / 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	CSCR		
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+	[hp]
2 Displacement	20.44	[cm ³] (1.247 cu.in)
2.1 Bore [mm]	36.990	
2.2 Stroke [mm]	19.030	
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)	18.1	[kg] (39.90 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

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	3ARR3B6V3	
3 Start capacitor	108-130(330)	[µF(VAC minimum)]
4 Run capacitor	25(440)	[µF(VAC minimum)]
5 Motor protection	USP-553-84	
6 Start winding resistance	3.09	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.27	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	46.00	[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: @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]
7059	1779	2068	1212	6.15	76.07	5.82	1.47	1.71

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)	5261	1326	1542	901	5.06	44.64	5.81	1.47	1.70
-15	(+ 5)	6626	1670	1941	972	5.26	56.51	6.83	1.72	2.00
-10	(+14)	8178	2061	2396	1029	5.45	70.62	7.97	2.01	2.34
-5	(+23)	9916	2499	2906	1076	5.64	86.99	9.23	2.33	2.71
0	(+32)	11838	2983	3469	1117	5.83	105.68	10.60	2.67	3.11
+5	(+41)	13941	3513	4085	1156	6.03	126.73	12.04	3.03	3.53
+10	(+50)	16223	4088	4754	1197	6.23	150.17	13.55	3.41	3.97

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)	4212	1062	1234	943	5.18	41.04	4.50	1.13	1.32
-15	(+ 5)	5448	1373	1596	1039	5.50	53.67	5.23	1.32	1.53
-10	(+14)	6808	1716	1995	1123	5.81	68.21	6.04	1.52	1.77
-5	(+23)	8292	2090	2430	1198	6.11	84.72	6.90	1.74	2.02
0	(+32)	9896	2494	2900	1267	6.42	103.22	7.79	1.96	2.28
+5	(+41)	11619	2928	3405	1336	6.73	123.76	8.70	2.19	2.55
+10	(+50)	13459	3392	3944	1407	7.04	146.39	9.60	2.42	2.81

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)	3133	790	918	963	5.30	36.91	3.26	0.82	0.95
-15	(+ 5)	4195	1057	1229	1085	5.70	49.88	3.85	0.97	1.13
-10	(+14)	5320	1341	1559	1195	6.10	64.44	4.45	1.12	1.30
-5	(+23)	6506	1639	1906	1296	6.49	80.65	5.03	1.27	1.47
0	(+32)	7749	1953	2271	1393	6.87	98.55	5.58	1.41	1.64
+5	(+41)	9050	2280	2652	1490	7.26	118.17	6.08	1.53	1.78
+10	(+50)	10404	2622	3049	1591	7.65	139.56	6.51	1.64	1.91

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		