

COMPRESSOR DEFINITION

Designation	NT U6234GKV
Nominal Voltage/Frequency	115 V 60 Hz
Engineering Number	925BG50

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	115 / 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 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)	18.38	[kg] (40.52 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	115 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B2L3	
3 Start capacitor	340-408(250)	[µF(VAC minimum)]
4 Run capacitor	85(240)	[µF(VAC minimum)]
5 Motor protection	15HM1969-247	
6 Start winding resistance	1.01	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	0.35	[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: @115V60Hz			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]
8227	2073	2411	1362	12.19	88.66	6.04	1.52	1.77

E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V60Hz			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)	6391	1610	1873	1009	9.07	54.02	6.33	1.60	1.85
-15	(+ 5)	7936	2000	2326	1089	9.74	67.84	7.29	1.84	2.14
-10	(+14)	9709	2447	2845	1158	10.34	83.95	8.39	2.11	2.46
-5	(+23)	11727	2955	3436	1216	10.86	102.88	9.65	2.43	2.83
0	(+32)	14011	3531	4106	1259	11.30	125.13	11.12	2.80	3.26
+5	(+41)	16578	4178	4858	1286	11.65	151.25	12.81	3.23	3.75
+10	(+50)	19449	4901	5699	1294	11.89	181.73	14.75	3.72	4.32

TEST CONDITIONS: @115V60Hz			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)	5138	1295	1506	1065	9.52	50.17	4.84	1.22	1.42
-15	(+ 5)	6433	1621	1885	1171	10.43	63.54	5.49	1.38	1.61
-10	(+14)	7916	1995	2319	1270	11.29	79.26	6.22	1.57	1.82
-5	(+23)	9605	2420	2814	1358	12.10	97.85	7.07	1.78	2.07
0	(+32)	11520	2903	3376	1434	12.84	119.83	8.05	2.03	2.36
+5	(+41)	13680	3447	4009	1495	13.51	145.73	9.19	2.32	2.69
+10	(+50)	16104	4058	4719	1540	14.10	176.05	10.52	2.65	3.08

TEST CONDITIONS: @115V60Hz			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)	3846	969	1127	1094	9.74	45.19	3.51	0.88	1.03
-15	(+ 5)	4872	1228	1428	1230	10.93	58.03	3.97	1.00	1.16
-10	(+14)	6047	1524	1772	1360	12.09	73.28	4.45	1.12	1.30
-5	(+23)	7389	1862	2165	1481	13.21	91.46	4.99	1.26	1.46
0	(+32)	8918	2247	2613	1592	14.30	113.09	5.60	1.41	1.64
+5	(+41)	10652	2684	3121	1690	15.33	138.69	6.31	1.59	1.85
+10	(+50)	12611	3178	3695	1773	16.30	168.78	7.16	1.80	2.10

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		