

COMPRESSOR DEFINITION

Designation	NT U6240GKV
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	925FA80

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 50	[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 1/2	[hp]
2 Displacement	27.80	[cm ³] (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 ²] (2.84 to 4.27 psig)

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	3ARR3B10AS3	
3 Start capacitor	88-108(330)	[µF(VAC minimum)]
4 Run capacitor	30(440)	[µF(VAC minimum)]
5 Motor protection	15HM1963-247	
6 Start winding resistance	3.95	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.47	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	CCC - VDE	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			EN12900MBP Fan		Evaporating temperature (Condensing temperature		-10°C (14°F) 45°C (113°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]
8295	2090	2431	1226	5.91	73.01	6.77	1.71	1.98

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz			EN12900 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)	6551	1651	1920	949	4.74	49.76	6.88	1.73	2.02
-15	(+ 5)	8019	2021	2350	1018	5.04	61.44	7.88	1.99	2.31
-10	(+14)	9861	2485	2889	1081	5.31	76.17	9.13	2.30	2.68
-5	(+23)	12059	3039	3534	1138	5.56	94.10	10.60	2.67	3.11
0	(+32)	14598	3679	4278	1191	5.80	115.38	12.27	3.09	3.59
+5	(+41)	17460	4400	5116	1239	6.02	140.16	14.09	3.55	4.13
+10	(+50)	20628	5198	6045	1284	6.22	168.59	16.05	4.04	4.70

TEST CONDITIONS: @220V50Hz			EN12900 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)	5535	1395	1622	1041	5.15	47.78	5.34	1.35	1.57
-15	(+ 5)	6752	1701	1978	1129	5.52	58.87	5.98	1.51	1.75
-10	(+14)	8276	2086	2425	1212	5.89	72.85	6.81	1.72	2.00
-5	(+23)	10093	2543	2957	1292	6.24	89.88	7.79	1.96	2.28
0	(+32)	12184	3070	3570	1367	6.59	110.10	8.89	2.24	2.61
+5	(+41)	14532	3662	4258	1441	6.92	133.66	10.09	2.54	2.96
+10	(+50)	17122	4315	5017	1512	7.25	160.72	11.35	2.86	3.33

TEST CONDITIONS: @220V50Hz			EN12900 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)	4465	1125	1308	1117	5.47	45.35	3.98	1.00	1.17
-15	(+ 5)	5422	1366	1589	1227	5.95	55.70	4.42	1.11	1.29
-10	(+14)	6621	1669	1940	1334	6.43	68.78	4.97	1.25	1.46
-5	(+23)	8047	2028	2358	1438	6.90	84.76	5.60	1.41	1.64
0	(+32)	9682	2440	2837	1540	7.37	103.77	6.30	1.59	1.85
+5	(+41)	11509	2900	3372	1642	7.84	125.96	7.02	1.77	2.06
+10	(+50)	13512	3405	3959	1743	8.31	151.50	7.73	1.95	2.27

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	Slanted		
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		