

COMPRESSOR DEFINITION

Designation	NT 6226GK
Nominal Voltage/Frequency	220-240 V 50 Hz
Engineering Number	923BA02

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	CSIR		
6 Starting torque	HST - Hight starting torque		
7 Expantion device	Capillary tube or Expansion valve		
8 Compressor cooling	Operating voltage range		
Application	Ambient Temp.	Cooling	50 Hz 60 Hz
MBP	43 °C	Fan	- -
9 Maximum condensing temperature			
9.1 Operating	[55]	[°C]	
9.2 Peak	[60]	[°C]	
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1+	[hp]
2 Displacement	22,37	[cm³] (1.365 cu.in)
2.1 Bore [mm]	36,990	
2.2 Stroke [mm]	20,830	
3 Lubricant charge	450	[ml] (15.22 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	17,5	[kg] (38.58 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (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	Current Relay	
2.1 Starting device	3CR-702-185	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0625/C9	
6 Start winding resistance	8.40	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.70	[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	IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @220V50Hz			ASHRAEHBP46 Fan		Evaporating temperature (Condensing temperature		7,2°C (44,96°F) 54,4°C (129,92°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]	
10992	2770	3221	1540	8,47	90,49	7,14	1,80	2,09	

E - PERFORMANCE - CURVES

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	5203	1311	1525	800	5,56	33,02	6,49	1,63	1,90
-15	(+ 5)	6476	1632	1898	873	5,80	41,36	7,43	1,87	2,18
-10	(+14)	8006	2018	2346	947	6,06	51,43	8,46	2,13	2,48
-5	(+23)	9799	2469	2871	1024	6,35	63,39	9,58	2,41	2,81
0	(+32)	11858	2988	3475	1103	6,65	77,39	10,75	2,71	3,15
+5	(+41)	14190	3576	4158	1184	6,98	93,58	11,98	3,02	3,51
+10	(+50)	16799	4233	4923	1267	7,33	112,12	13,25	3,34	3,88

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	4433	1117	1299	871	5,76	31,05	5,10	1,28	1,49
-15	(+ 5)	5533	1394	1621	955	6,06	39,01	5,79	1,46	1,70
-10	(+14)	6855	1727	2009	1043	6,39	48,65	6,56	1,65	1,92
-5	(+23)	8403	2118	2462	1135	6,75	60,11	7,39	1,86	2,17
0	(+32)	10182	2566	2984	1230	7,15	73,56	8,27	2,08	2,42
+5	(+41)	12199	3074	3574	1329	7,57	89,15	9,18	2,31	2,69
+10	(+50)	14456	3643	4236	1431	8,02	107,03	10,11	2,55	2,96

TEST CONDITIONS: @220V50Hz		ASHRAE46 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)	3752	945	1099	941	6,02	29,51	3,99	1,01	1,17
-15	(+ 5)	4660	1174	1365	1040	6,38	36,89	4,48	1,13	1,31
-10	(+14)	5753	1450	1686	1144	6,78	45,89	5,03	1,27	1,47
-5	(+23)	7038	1774	2062	1253	7,22	56,66	5,62	1,42	1,65
0	(+32)	8518	2147	2496	1368	7,71	69,35	6,23	1,57	1,83
+5	(+41)	10199	2570	2989	1487	8,23	84,13	6,86	1,73	2,01
+10	(+50)	12086	3046	3542	1611	8,79	101,15	7,49	1,89	2,20

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	9,6 +0.07/+0.00	[mm]	(0.378" +0.003"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Vertical		
3.2 DISCHARGE	6,42 +0.08/+0.00	[mm]	(0.253" +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		