COMPRESSOR DEFINITION

Designation	**NT 6226GKV**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**923AA02**

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	
		50 Hz	60 Hz
8.1 LBP (32ºC Ambient temperature)	-	-	-
8.2 LBP (43ºC Ambient temperature)	-	-	-
8.3 HBP (32ºC Ambient temperature)	-	-	-
8.4 HBP (43ºC Ambient temperature)	-	-	-
9 Maximum condensing temperature			
9.1 Operating	25.2	[kgf/cm²] (358 psig)	/ ºC - ºF
9.2 Peak	28.3	[kgf/cm²] (402 psig)	/ ºC - ºF
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 25ºC (77ºF)] +/- 8%
7 Run winding resistance	1.70	[Ω at 25ºC (77ºF)] +/- 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**			**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]
5858	1476	1717	1051	6.45	51.56	5.57	1.40	1.63

E - PERFORMANCE - CURVES

TEST CONDITIONS: **EN12900** (Condensing temperature **35ºC (+95ºF))**
@220V50Hz **Fan**

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)**	4519	1139	1324	803	5.57	34.32	5.61	1.41	1.65
-15	**(+ 5)**	5663	1427	1659	877	5.82	43.41	6.46	1.63	1.89
-10	**(+14)**	7023	1770	2058	952	6.09	54.26	7.38	1.86	2.16
-5	**(+23)**	8599	2167	2520	1029	6.38	67.09	8.36	2.11	2.45
0	**(+32)**	10391	2619	3045	1107	6.68	82.11	9.38	2.36	2.75
+5	**(+41)**	12399	3125	3633	1186	7.01	99.52	10.45	2.63	3.06
+10	**(+50)**	14623	3685	4285	1266	7.35	119.53	11.55	2.91	3.38

TEST CONDITIONS: **EN12900** (Condensing temperature **45ºC (+113ºF))**
@220V50Hz **Fan**

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)**	3732	940	1093	870	5.78	32.21	4.30	1.08	1.26
-15	**(+ 5)**	4713	1188	1381	961	6.10	41.10	4.91	1.24	1.44
-10	**(+14)**	5869	1479	1720	1052	6.45	51.66	5.58	1.41	1.63
-5	**(+23)**	7199	1814	2109	1143	6.81	64.11	6.29	1.59	1.84
0	**(+32)**	8703	2193	2550	1235	7.19	78.65	7.04	1.77	2.06
+5	**(+41)**	10381	2616	3042	1328	7.59	95.48	7.82	1.97	2.29
+10	**(+50)**	12233	3083	3584	1420	8.02	114.82	8.61	2.17	2.52

TEST CONDITIONS: **EN12900** (Condensing temperature **55ºC (+131ºF))**
@220V50Hz **Fan**

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)**	3013	759	883	927	5.98	30.61	3.25	0.82	0.95
-15	**(+ 5)**	3792	956	1111	1038	6.39	38.94	3.65	0.92	1.07
-10	**(+14)**	4705	1186	1379	1149	6.82	48.85	4.09	1.03	1.20
-5	**(+23)**	5749	1449	1685	1260	7.27	60.55	4.56	1.15	1.34
0	**(+32)**	6925	1745	2029	1370	7.74	74.24	5.06	1.28	1.48
+5	**(+41)**	8234	2075	2413	1479	8.24	90.14	5.57	1.40	1.63
+10	**(+50)**	9675	2438	2835	1588	8.76	108.45	6.09	1.53	1.78

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		