COMPRESSOR DEFINITION

Designation	**NT 6222GK**
Nominal Voltage/Frequency	**200-240 V 50 Hz / 230 V 60 Hz**
Engineering Number	**922CN09**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	200-240 / 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 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	17.39	[cm³] (1.061 cu.in)
2.1 Bore [mm]	34.120	
2.2 Stroke [mm]	19.030	
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)	17.4	[kg] (38.36 lb.)
5 Nitrogen charge	-	[kgf/cm²]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	200-240 V 50 Hz / 230 V 60 Hz 1 ~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA3N3C-122	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	17.5(440)	[µF(VAC minimum)]
5 Motor protection	T0748/G9	
6 Start winding resistance	10.10	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	1.75	[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	CCC - IMQ - IRAM - UL	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: **@200V50Hz**			**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]
4462	1124	1307	769	4.08	39.27	5.80	1.46	1.70

E - PERFORMANCE - CURVES

TEST CONDITIONS: **EN12900** (Condensing temperature **35ºC (+95ºF))**
@200V50Hz **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)**	3371	849	988	600	3.25	25.61	5.61	1.41	1.65
-15	**(+ 5)**	4308	1086	1262	657	3.52	32.99	6.56	1.65	1.92
-10	**(+14)**	5440	1371	1594	717	3.80	42.03	7.59	1.91	2.22
-5	**(+23)**	6746	1700	1977	778	4.09	52.67	8.68	2.19	2.54
0	**(+32)**	8204	2067	2404	838	4.38	64.85	9.79	2.47	2.87
+5	**(+41)**	9794	2468	2870	894	4.68	78.49	10.89	2.74	3.19
+10	**(+50)**	11495	2897	3368	945	4.99	93.54	11.95	3.01	3.50

TEST CONDITIONS: **EN12900** (Condensing temperature **45ºC (+113ºF))**
@200V50Hz **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)**	2763	696	810	643	3.47	23.89	4.30	1.08	1.26
-15	**(+ 5)**	3522	888	1032	703	3.77	30.68	5.01	1.26	1.47
-10	**(+14)**	4461	1124	1307	769	4.08	39.25	5.79	1.46	1.70
-5	**(+23)**	5560	1401	1629	838	4.40	49.52	6.63	1.67	1.94
0	**(+32)**	6796	1713	1992	909	4.74	61.44	7.48	1.89	2.19
+5	**(+41)**	8151	2054	2388	978	5.09	74.93	8.33	2.10	2.44
+10	**(+50)**	9602	2420	2814	1043	5.45	89.94	9.12	2.30	2.67

TEST CONDITIONS: **EN12900** (Condensing temperature **55ºC (+131ºF))**
@200V50Hz **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)**	2278	574	668	694	3.70	23.14	3.28	0.83	0.96
-15	**(+ 5)**	2831	714	830	758	4.04	29.07	3.74	0.94	1.10
-10	**(+14)**	3550	895	1040	831	4.40	36.89	4.28	1.08	1.25
-5	**(+23)**	4414	1112	1294	909	4.78	46.52	4.86	1.22	1.42
0	**(+32)**	5403	1361	1583	990	5.18	57.90	5.45	1.37	1.60
+5	**(+41)**	6494	1636	1903	1073	5.60	70.97	6.03	1.52	1.77
+10	**(+50)**	7668	1932	2247	1154	6.04	85.66	6.56	1.65	1.92

F - EXTERNAL CHARACTERISTICS

1 Base plate	Universal		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	12.7 +0.25/-0.25	[mm]	(0.500" +0.010"/-0.010")
3.1.1 Material	Steel		
3.1.2 Shape	ROTOLOCK(Ex. thr. 1"-14UNS-2A)		
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		