

COMPRESSOR DEFINITION

Designation	NT X6222GKV
Nominal Voltage/Frequency	208-230 V 60 Hz
Engineering Number	842UD72

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	208-230 / 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 - High 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	3/4	[hp]
2 Displacement	15.54	[cm ³] (0.948 cu.in)
2.1 Bore [mm]	34.120	
2.2 Stroke [mm]	17.000	
3 Lubricant charge	385	[ml] (13.02 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	16.7	[kg] (36.82 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA4AL3C-649	
3 Start capacitor	64-77(330)	[µF(VAC minimum)]
4 Run capacitor	12.5(400)	[µF(VAC minimum)]
5 Motor protection	USP-515-84	
6 Start winding resistance	6.60	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	1.58	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	34.00	[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: @230V60Hz			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]
5199	1310	1523	874	4.39	56.03	5.95	1.50	1.74

E - PERFORMANCE - CURVES

TEST CONDITIONS: @230V60Hz		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)	3960	998	1160	647	3.65	33.45	6.11	1.54	1.79
-15	(+ 5)	4911	1238	1439	706	3.85	41.98	6.96	1.75	2.04
-10	(+14)	6063	1528	1777	758	4.05	52.45	8.00	2.02	2.34
-5	(+23)	7417	1869	2173	803	4.22	65.10	9.23	2.33	2.71
0	(+32)	8972	2261	2629	842	4.38	80.13	10.66	2.69	3.12
+5	(+41)	10728	2703	3144	875	4.50	97.77	12.27	3.09	3.60
+10	(+50)	12686	3197	3717	900	4.59	118.24	14.08	3.55	4.13

TEST CONDITIONS: @230V60Hz		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)	3172	799	929	677	3.75	31.00	4.70	1.18	1.38
-15	(+ 5)	3991	1006	1170	753	4.02	39.42	5.31	1.34	1.55
-10	(+14)	4976	1254	1458	821	4.28	49.82	6.05	1.53	1.77
-5	(+23)	6127	1544	1795	881	4.51	62.41	6.94	1.75	2.03
0	(+32)	7443	1876	2181	934	4.72	77.41	7.97	2.01	2.33
+5	(+41)	8924	2249	2615	978	4.89	95.05	9.13	2.30	2.68
+10	(+50)	10571	2664	3098	1014	5.02	115.53	10.44	2.63	3.06

TEST CONDITIONS: @230V60Hz		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)	2322	585	680	677	3.75	27.30	3.42	0.86	1.00
-15	(+ 5)	2979	751	873	776	4.12	35.45	3.85	0.97	1.13
-10	(+14)	3766	949	1104	865	4.45	45.60	4.36	1.10	1.28
-5	(+23)	4682	1180	1372	944	4.76	57.96	4.96	1.25	1.45
0	(+32)	5728	1444	1679	1014	5.04	72.76	5.65	1.42	1.66
+5	(+41)	6904	1740	2023	1074	5.28	90.21	6.43	1.62	1.88
+10	(+50)	8209	2069	2405	1125	5.47	110.54	7.29	1.84	2.14

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		