COMPRESSOR DEFINITION

Designation	**NT 6222UV**
Nominal Voltage/Frequency	**115 V 60 Hz**
Engineering Number	**842JG02**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-290		
3 Nominal voltage and frequency	115 / 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 - 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	18.4	[kgf/cm²] (262 psig)	/ ºC - ºF
9.2 Peak	20.6	[kgf/cm²] (293 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	3/4	[hp]
2 Displacement	20.44	[cm³] (1.247 cu.in)
2.1 Bore [mm]	36.990	
2.2 Stroke [mm]	19.030	
3 Lubricant charge	450	[ml] (15.22 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	AB / ISO32	
4 Weight (with oil charge)	16.6	[kg] (36.60 lb.)
5 Nitrogen charge	-	[kgf/cm²]

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	115 V 60 Hz 1~ (Single phase)	
2 Starting device type	Voltage Relay	
2.1 Starting device	RVA9AD3C-121	
3 Start capacitor	243-292(250)	[µF(VAC minimum)]
4 Run capacitor	35(400)	[µF(VAC minimum)]
5 Motor protection	T0873/C9	
6 Start winding resistance	2.66	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	0.43	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	54.50	[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: **@115V60Hz**			**ARIMBP** **Fan**		Evaporating temperature (Condensing temperature	**-6.7°C (19.94°F)** **48.9°C (120.02°F))**		
Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
5192	1308	1521	851	8.06	21.70	6.10	1.54	1.79

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ARI4** (Condensing temperature **35ºC (+95ºF))**
@115V60Hz **Fan**

Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	3808	960	1116	631	6.15	13.49	6.02	1.52	1.76
-15	**(+ 5)**	4597	1158	1347	677	6.56	16.33	6.84	1.72	2.00
-10	**(+14)**	5759	1451	1687	726	7.00	20.61	7.95	2.00	2.33
-5	**(+23)**	7293	1838	2137	779	7.47	26.37	9.34	2.35	2.74
0	**(+32)**	9201	2319	2696	834	7.98	33.67	10.97	2.77	3.22
+5	**(+41)**	11482	2894	3365	892	8.53	42.56	12.84	3.24	3.76
+10	**(+50)**	14136	3562	4142	953	9.11	53.08	14.91	3.76	4.37

TEST CONDITIONS: **ARI4** (Condensing temperature **45ºC (+113ºF))**
@115V60Hz **Fan**

Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	3174	800	930	639	6.11	12.33	4.93	1.24	1.44
-15	**(+ 5)**	3907	984	1145	716	6.78	15.37	5.46	1.38	1.60
-10	**(+14)**	4871	1227	1427	788	7.43	19.38	6.20	1.56	1.82
-5	**(+23)**	6066	1529	1777	856	8.05	24.40	7.11	1.79	2.08
0	**(+32)**	7492	1888	2195	918	8.65	30.48	8.18	2.06	2.40
+5	**(+41)**	9149	2306	2681	976	9.23	37.68	9.38	2.36	2.75
+10	**(+50)**	11037	2781	3234	1028	9.79	46.04	10.70	2.70	3.13

TEST CONDITIONS: **ARI4** (Condensing temperature **55ºC (+131ºF))**
@115V60Hz **Fan**

Evaporating temperature		Cooling capacity (Qe) +/- 5%			Input power (We) +/- 5%	Electric current +/- 5%	Mass flow rate +/- 5%	Efficiency EER & COP +/- 7%		
°C	(°F)	[Btu/h]	[kcal/h]	[W]	[W]	[A]	[kg/h]	[Btu/Wh]	[kcal/Wh]	[W/W]
-20	**(- 4)**	2284	576	669	655	6.36	10.07	3.54	0.89	1.04
-15	**(+ 5)**	3114	785	913	760	7.24	13.81	4.06	1.02	1.19
-10	**(+14)**	4034	1016	1182	853	8.03	18.04	4.69	1.18	1.37
-5	**(+23)**	5042	1271	1477	933	8.74	22.81	5.40	1.36	1.58
0	**(+32)**	6140	1547	1799	1001	9.37	28.17	6.17	1.55	1.81
+5	**(+41)**	7327	1846	2147	1056	9.92	34.17	6.98	1.76	2.05
+10	**(+50)**	8602	2168	2521	1098	10.39	40.87	7.81	1.97	2.29

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		