COMPRESSOR DEFINITION

Designation	**NT 6217UV**
Nominal Voltage/Frequency	**115 V 60 Hz**
Engineering Number	**842HG04**

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	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	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	1/2	[hp]
2 Displacement	14.50	[cm³] (0.885 cu.in)
2.1 Bore [mm]	34.120	
2.2 Stroke [mm]	15.870	
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)	16.2	[kg] (35.71 lb.)
5 Nitrogen charge	0.2 to 0.3	[kgf/cm²] (2.84 to 4.27 psig)

C - ELECTRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	115 V 60 Hz 1~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	9660C-3018-183	
3 Start capacitor	189-227(250)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0826/J5	
6 Start winding resistance	2.62	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	0.51	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	44.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	8.55	[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:			**ARIMBP**			Evaporating temperature		**-6.7°C (19.94°F)**
@115V60Hz			**Fan**			(Condensing temperature		**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]
3616	911	1060	638	7.78	15.11	5.67	1.43	1.66

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)**	2640	665	774	478	6.86	9.36	5.46	1.38	1.60
-15	**(+ 5)**	3251	819	953	514	7.09	11.57	6.32	1.59	1.85
-10	**(+14)**	4008	1010	1175	547	7.30	14.35	7.34	1.85	2.15
-5	**(+23)**	4916	1239	1440	578	7.48	17.76	8.51	2.15	2.49
0	**(+32)**	5976	1506	1751	609	7.65	21.84	9.82	2.48	2.88
+5	**(+41)**	7193	1813	2108	639	7.79	26.64	11.26	2.84	3.30
+10	**(+50)**	8572	2160	2512	671	7.91	32.22	12.80	3.22	3.75

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)**	1906	480	558	482	6.85	7.41	4.08	1.03	1.20
-15	**(+ 5)**	2556	644	749	539	7.24	10.05	4.78	1.20	1.40
-10	**(+14)**	3338	841	978	592	7.61	13.26	5.62	1.42	1.65
-5	**(+23)**	4257	1073	1247	641	7.95	17.10	6.58	1.66	1.93
0	**(+32)**	5315	1339	1557	689	8.27	21.61	7.66	1.93	2.25
+5	**(+41)**	6516	1642	1909	734	8.56	26.85	8.85	2.23	2.59
+10	**(+50)**	7864	1982	2304	779	8.82	32.86	10.11	2.55	2.96

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)**	1691	426	495	512	7.16	7.41	3.23	0.81	0.95
-15	**(+ 5)**	2119	534	621	576	7.54	9.39	3.67	0.92	1.07
-10	**(+14)**	2665	671	781	634	7.89	11.94	4.22	1.06	1.24
-5	**(+23)**	3333	840	977	687	8.22	15.12	4.88	1.23	1.43
0	**(+32)**	4127	1040	1209	736	8.51	18.98	5.64	1.42	1.65
+5	**(+41)**	5050	1273	1480	782	8.78	23.56	6.47	1.63	1.90
+10	**(+50)**	6106	1539	1789	826	9.02	28.92	7.37	1.86	2.16

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		