COMPRESSOR DEFINITION

Designation	**NT 6217ZV**
Nominal Voltage/Frequency	**208-230 V 60 Hz**
Engineering Number	**212ED04**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	208-230 / 60	[V / Hz]	
4 Application type	High Back Pressure (Commercial Compressors)		
4.1 Evaporating temperature range	-15°C to 10°C	(5°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 pressures/temperature			
9.1 Operating (gauge)	16.2	[kgf/cm²] (230 psig)	/ ºC - ºF
9.2 Peak (gauge)	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	ESTER / ISO22	
4 Weight (with oil charge)	16.7	[kg] (36.82 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	208-230 V 60 Hz 1~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRPH-59	
3 Start capacitor	64-77(330)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0925/J5	
6 Start winding resistance	6.03	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	1.84	[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	31.00	[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**			**ARIHBP** **Fan**		Evaporating temperature (Condensing temperature	**7.2°C (44.96°F)** **54.4°C (129.92°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]
6610	1666	1937	977	5.60	51.87	6.77	1.71	1.98

E - PERFORMANCE - CURVES

TEST CONDITIONS: **ARI18** (Condensing temperature **35ºC (+95ºF))**
@230V60Hz **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]
-15	**(+ 5)**	3396	856	995	551	4.22	21.24	6.16	1.55	1.80
-10	**(+14)**	4315	1087	1264	608	4.38	27.13	7.10	1.79	2.08
-5	**(+23)**	5403	1362	1583	665	4.55	34.15	8.12	2.05	2.38
0	**(+32)**	6662	1679	1952	724	4.74	42.37	9.20	2.32	2.70
+5	**(+41)**	8091	2039	2371	783	4.93	51.86	10.33	2.60	3.03
+10	**(+50)**	9691	2442	2840	843	5.14	62.70	11.49	2.90	3.37

TEST CONDITIONS: **ARI18** (Condensing temperature **45ºC (+113ºF))**
@230V60Hz **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]
-15	**(+ 5)**	2893	729	848	591	4.32	19.86	4.90	1.23	1.43
-10	**(+14)**	3692	930	1082	659	4.52	25.48	5.61	1.41	1.64
-5	**(+23)**	4644	1170	1361	726	4.73	32.23	6.40	1.61	1.87
0	**(+32)**	5750	1449	1685	794	4.96	40.19	7.25	1.83	2.12
+5	**(+41)**	7010	1767	2054	861	5.19	49.42	8.15	2.05	2.39
+10	**(+50)**	8424	2123	2468	928	5.44	60.00	9.08	2.29	2.66

TEST CONDITIONS: **ARI18** (Condensing temperature **55ºC (+131ºF))**
@230V60Hz **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]
-15	**(+ 5)**	2411	608	707	616	4.40	18.40	3.92	0.99	1.15
-10	**(+14)**	3108	783	911	701	4.65	23.87	4.43	1.12	1.30
-5	**(+23)**	3941	993	1155	785	4.91	30.47	5.02	1.26	1.47
0	**(+32)**	4911	1238	1439	867	5.19	38.27	5.66	1.43	1.66
+5	**(+41)**	6020	1517	1764	947	5.49	47.36	6.36	1.60	1.86
+10	**(+50)**	7265	1831	2129	1026	5.79	57.79	7.08	1.78	2.08

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		