

### COMPRESSOR DEFINITION

Designation	NT 2212GKV
Nominal Voltage/Frequency	115 V 60 Hz
Engineering Number	925CG02

### A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	115 / 60	[ V / Hz ]	
4 Application type	Low Back Pressure R404A		
4.1 Evaporating temperature range	-40°C to -10°C	(-40°F to 14°F)	
5 Motor type	CSCR		
6 Starting torque	HST - Hight 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 <sup>2</sup> ] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm <sup>2</sup> ] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[ °C ]	

### B - MECHANICAL DATA

1 Commercial designation	1 1/2	[hp]
2 Displacement	27.80	[cm <sup>3</sup> ] (1.696 cu.in)
2.1 Bore [mm]	38.100	
2.2 Stroke [mm]	24.400	
3 Lubricant charge	650	[ml] (21.98 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight (with oil charge)	18.3	[kg] (40.34 lb.)
5 Nitrogen charge	-	[kgf/cm <sup>2</sup> ]

### C - ELETRICAL 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	3ARR3B2L3	
3 Start capacitor	340-408(250)	[µF(VAC minimum)]
4 Run capacitor	85(240)	[µF(VAC minimum)]
5 Motor protection	15HM1969-247	
6 Start winding resistance	1.01	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	0.35	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	-	[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			ARILBP Fan		Evaporating temperature (Condensing temperature		-23.3°C (-9.94°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]
4036	1017	1183	1188	10.59	41.78	3.40	0.86	1.00

### E - PERFORMANCE - CURVES

TEST CONDITIONS: @115V60Hz		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]
-40	(-40)	2141	540	627	713	6.61	17.59	2.99	0.75	0.88
-35	(-31)	2956	745	866	838	7.61	24.53	3.54	0.89	1.04
-30	(-22)	3899	983	1142	955	8.60	32.50	4.10	1.03	1.20
-25	(-13)	4996	1259	1464	1072	9.62	41.87	4.66	1.17	1.37
-20	(- 4)	6273	1581	1838	1194	10.71	52.99	5.23	1.32	1.53
-15	(+ 5)	7754	1954	2272	1330	11.91	66.21	5.81	1.46	1.70
-10	(+14)	9464	2385	2773	1485	13.29	81.89	6.40	1.61	1.87

TEST CONDITIONS: @115V60Hz		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]
-40	(-40)	1576	397	462	685	6.42	14.88	2.29	0.58	0.67
-35	(-31)	2324	586	681	841	7.65	22.16	2.76	0.69	0.81
-30	(-22)	3157	796	925	985	8.84	30.29	3.21	0.81	0.94
-25	(-13)	4101	1033	1202	1124	10.04	39.65	3.66	0.92	1.07
-20	(- 4)	5180	1305	1518	1265	11.29	50.57	4.10	1.03	1.20
-15	(+ 5)	6420	1618	1881	1414	12.64	63.43	4.53	1.14	1.33
-10	(+14)	7846	1977	2299	1579	14.14	78.56	4.96	1.25	1.45

TEST CONDITIONS: @115V60Hz		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]
-40	(-40)	963	243	282	619	5.97	10.97	1.58	0.40	0.46
-35	(-31)	1640	413	481	812	7.46	18.67	1.99	0.50	0.58
-30	(-22)	2360	595	692	989	8.89	27.07	2.37	0.60	0.69
-25	(-13)	3147	793	922	1157	10.31	36.50	2.73	0.69	0.80
-20	(- 4)	4025	1014	1179	1322	11.77	47.33	3.06	0.77	0.90
-15	(+ 5)	5021	1265	1471	1492	13.30	59.91	3.38	0.85	0.99
-10	(+14)	6159	1552	1805	1673	14.97	74.59	3.67	0.92	1.08

### 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		