

### COMPRESSOR DEFINITION

Designation	NT 2212GKV
Nominal Voltage/Frequency	115 V 60 Hz
Engineering Number	925IG02

### 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	3ARR22B3P3	
3 Start capacitor	340-408(250)	[µF(VAC minimum)]
4 Run capacitor	40(250)	[µF(VAC minimum)]
5 Motor protection	15HM1969-247	
6 Start winding resistance	2.23	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	0.32	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (60 Hz)	93.00	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (60 Hz)	16.15	[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]
4139	1043	1213	1221	12.19	42.85	3.39	0.85	0.99

### 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)	2073	522	607	681	8.50	17.02	3.03	0.76	0.89
-35	(-31)	2890	728	847	817	9.31	23.96	3.53	0.89	1.04
-30	(-22)	3855	971	1130	950	10.17	32.13	4.06	1.02	1.19
-25	(-13)	4966	1251	1455	1079	11.08	41.65	4.61	1.16	1.35
-20	(- 4)	6223	1568	1824	1207	12.05	52.62	5.17	1.30	1.51
-15	(+ 5)	7628	1922	2235	1334	13.08	65.16	5.72	1.44	1.68
-10	(+14)	9179	2313	2690	1461	14.18	79.36	6.27	1.58	1.84

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)	1523	384	446	685	8.52	14.48	2.25	0.57	0.66
-35	(-31)	2193	553	643	822	9.33	20.90	2.67	0.67	0.78
-30	(-22)	3003	757	880	961	10.25	28.76	3.11	0.78	0.91
-25	(-13)	3954	996	1159	1105	11.29	38.16	3.56	0.90	1.04
-20	(- 4)	5046	1271	1478	1253	12.44	49.21	4.02	1.01	1.18
-15	(+ 5)	6278	1582	1840	1407	13.71	62.02	4.47	1.13	1.31
-10	(+14)	7651	1928	2242	1567	15.10	76.70	4.90	1.23	1.44

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)	1166	294	342	689	8.54	13.19	1.68	0.42	0.49
-35	(-31)	1642	414	481	829	9.38	18.72	1.99	0.50	0.58
-30	(-22)	2251	567	660	977	10.39	25.88	2.31	0.58	0.68
-25	(-13)	2995	755	878	1137	11.57	34.79	2.64	0.67	0.77
-20	(- 4)	3874	976	1135	1308	12.92	45.55	2.97	0.75	0.87
-15	(+ 5)	4887	1232	1432	1491	14.45	58.28	3.28	0.83	0.96
-10	(+14)	6035	1521	1768	1688	16.15	73.07	3.57	0.90	1.05

### 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		