COMPRESSOR DEFINITION

Designation	**NT 2192GK**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**923EA04**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	220-240 / 50	[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	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)	25.7	[kgf/cm²] (365 psig)	/ ºC - ºF
9.2 Peak (gauge)	28.7	[kgf/cm²] (408 psig)	/ ºC - ºF
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1+	[hp]
2 Displacement	22.37	[cm³] (1.365 cu.in)
2.1 Bore	36.990	
2.2 Stroke	10.415	
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)	17.5	[kg] (38.58 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	220-240 V 50 Hz 1 ~ (Single phase)	
2 Starting device type	Current Relay	
2.1 Starting device	MTRPH61-65	
3 Start capacitor	130-156(250)	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection (external)	T0060/20	
6 Start winding resistance		[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance		[Ω at 25ºC (77ºF)] +/- 8%
8 LRA - Locked rotor amperage (50 Hz)	-	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification	IMQ	

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS:			**ASHRAELBP32**			Evaporating temperature		**-23.3°C (-9.94°F)**
@220V50Hz			**Fan**			(Condensing temperature		**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]
3594	906	1053	814	4.92	24.37	4.42	1.11	1.30

E - PERFORMANCE - CURVES

TEST CONDITIONS:		**ASHRAE32**					(Condensing temperature **35ºC (+95ºF)**)			
@220V50Hz		**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]
-40	**(-40)**	1690	426	495	448	3.85	11.36	3.76	0.95	1.10
-35	**(-31)**	2240	565	656	524	4.02	15.11	4.28	1.08	1.26
-30	**(-22)**	2952	744	865	602	4.24	19.97	4.91	1.24	1.44
-25	**(-13)**	3827	964	1121	680	4.49	26.00	5.62	1.42	1.65
-20	**(- 4)**	4865	1226	1426	760	4.77	33.23	6.40	1.61	1.87
-15	**(+ 5)**	6069	1529	1778	841	5.10	41.70	7.21	1.82	2.11
-10	**(+14)**	7439	1875	2180	924	5.46	51.46	8.05	2.03	2.36

TEST CONDITIONS:		**ASHRAE32**					(Condensing temperature **45ºC (+113ºF)**)			
@220V50Hz		**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]
-40	**(-40)**	1488	375	436	450	3.81	9.98	3.31	0.83	0.97
-35	**(-31)**	2028	511	594	541	4.05	13.65	3.75	0.95	1.10
-30	**(-22)**	2716	684	796	634	4.33	18.34	4.28	1.08	1.25
-25	**(-13)**	3551	895	1040	729	4.65	24.08	4.87	1.23	1.43
-20	**(- 4)**	4535	1143	1329	824	5.01	30.91	5.50	1.39	1.61
-15	**(+ 5)**	5670	1429	1662	921	5.40	38.88	6.16	1.55	1.80
-10	**(+14)**	6957	1753	2038	1020	5.84	48.03	6.82	1.72	2.00

TEST CONDITIONS:		**ASHRAE32**					(Condensing temperature **55ºC (+131ºF)**)			
@220V50Hz		**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]
-40	**(-40)**	1283	323	376	441	3.81	8.58	2.91	0.73	0.85
-35	**(-31)**	1815	457	532	552	4.10	12.19	3.29	0.83	0.96
-30	**(-22)**	2478	625	726	664	4.43	16.71	3.73	0.94	1.09
-25	**(-13)**	3276	825	960	777	4.80	22.17	4.22	1.06	1.24
-20	**(- 4)**	4207	1060	1233	891	5.21	28.61	4.73	1.19	1.39
-15	**(+ 5)**	5275	1329	1546	1007	5.66	36.09	5.25	1.32	1.54
-10	**(+14)**	6478	1633	1898	1124	6.15	44.64	5.76	1.45	1.69

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	9.6 +0.07/+0.00	[mm]	(0.378" +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		