

COMPRESSOR DEFINITION

Designation	NT 2192GS
Nominal Voltage/Frequency	200 V 50-60 Hz
Engineering Number	926LR02

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-404A		
3 Nominal voltage and frequency	200 / 50-60	[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	3PHASE		
6 Starting torque	HST - High 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 ²] (358 psig)	/ °C - °F
9.2 Peak	28.3	[kgf/cm ²] (402 psig)	/ °C - °F
10 Maximum winding temperature	130	[°C]	

B - MECHANICAL DATA

1 Commercial designation	1	[hp]
2 Displacement	22.37	[cm ³] (1.365 cu.in)
2.1 Bore [mm]	36.990	
2.2 Stroke [mm]	20.830	
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)	18.04	[kg] (39.77 lb.)
5 Nitrogen charge	-	[kgf/cm ²]

C - ELETRICAL DATA

1 Nominal Voltage/Frequency/Number of Phases	200 V 50-60 Hz 3 ~ (Three phase)	
2 Starting device type	3PHASE	
2.1 Starting device		
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection	T0926/K9	
6 Start winding resistance	3.60	[Ω at 25°C (77°F)] +/- 8%
7 Run winding resistance	2.10	[Ω at 25°C (77°F)] +/- 8%
8 LRA - Locked rotor amperage (50/60 Hz)	28.00/28.50	[A] - Measured according to UL 984
9 FLA - Full load amperage L/MBP (50/60 Hz)	-	[A] - Measured according to UL 984
10 FLA - Full Load Amperage HBP (50/60 Hz)	-	[A] - Measured according to UL 984
11 Approval boards certification		

D - PERFORMANCE - CHECK POINT DATA

TEST CONDITIONS: @200V60Hz			ASHRAELBP32 Fan		Evaporating temperature (Condensing temperature		-23.3°C (-9.94°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]
4165	1050	1220	949	3.27	28.24	4.39	1.11	1.29

E - PERFORMANCE - CURVES

TEST CONDITIONS: @200V50Hz			ASHRAE32 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)	1632	411	478	432	2.42	10.97	3.77	0.95	1.11
-35	(-31)	2220	559	651	506	2.55	14.97	4.39	1.11	1.29
-30	(-22)	2957	745	866	582	2.69	20.00	5.08	1.28	1.49
-25	(-13)	3842	968	1126	658	2.84	26.10	5.84	1.47	1.71
-20	(- 4)	4877	1229	1429	733	3.00	33.31	6.65	1.68	1.95
-15	(+ 5)	6061	1527	1776	807	3.17	41.65	7.51	1.89	2.20
-10	(+14)	7394	1863	2167	878	3.36	51.15	8.42	2.12	2.47

TEST CONDITIONS: @200V50Hz			ASHRAE32 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)	1451	366	425	437	2.42	9.73	3.33	0.84	0.98
-35	(-31)	2022	510	592	522	2.57	13.61	3.88	0.98	1.14
-30	(-22)	2730	688	800	609	2.73	18.44	4.48	1.13	1.31
-25	(-13)	3576	901	1048	698	2.91	24.25	5.12	1.29	1.50
-20	(- 4)	4560	1149	1336	787	3.11	31.08	5.79	1.46	1.70
-15	(+ 5)	5682	1432	1665	875	3.32	38.96	6.49	1.64	1.90
-10	(+14)	6941	1749	2034	962	3.55	47.92	7.22	1.82	2.11

TEST CONDITIONS: @200V50Hz			ASHRAE32 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)	1243	313	364	441	2.43	8.32	2.82	0.71	0.83
-35	(-31)	1794	452	526	537	2.60	12.06	3.34	0.84	0.98
-30	(-22)	2472	623	724	637	2.79	16.66	3.88	0.98	1.14
-25	(-13)	3276	826	960	738	3.01	22.17	4.44	1.12	1.30
-20	(- 4)	4207	1060	1233	841	3.24	28.61	5.01	1.26	1.47
-15	(+ 5)	5264	1327	1542	945	3.50	36.02	5.58	1.41	1.63
-10	(+14)	6447	1625	1889	1048	3.78	44.43	6.15	1.55	1.80

E - PERFORMANCE - CURVES

TEST CONDITIONS: @200V60Hz		ASHRAE32 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]
-40	(-40)	1955	493	573	475	2.12	13.14	4.11	1.04	1.21
-35	(-31)	2695	679	790	583	2.35	18.17	4.62	1.16	1.35
-30	(-22)	3587	904	1051	690	2.60	24.27	5.19	1.31	1.52
-25	(-13)	4632	1167	1357	796	2.85	31.47	5.82	1.47	1.71
-20	(- 4)	5830	1469	1708	898	3.11	39.81	6.50	1.64	1.90
-15	(+ 5)	7180	1809	2104	996	3.38	49.33	7.21	1.82	2.11
-10	(+14)	8683	2188	2544	1089	3.66	60.07	7.96	2.01	2.33

TEST CONDITIONS: @200V60Hz		ASHRAE32 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]
-40	(-40)	1663	419	487	481	2.11	11.16	3.47	0.88	1.02
-35	(-31)	2352	593	689	591	2.37	15.83	3.98	1.00	1.17
-30	(-22)	3204	807	939	706	2.65	21.63	4.52	1.14	1.33
-25	(-13)	4219	1063	1236	825	2.94	28.61	5.10	1.28	1.49
-20	(- 4)	5399	1360	1582	947	3.26	36.80	5.69	1.44	1.67
-15	(+ 5)	6742	1699	1976	1070	3.59	46.23	6.31	1.59	1.85
-10	(+14)	8249	2079	2417	1193	3.94	56.95	6.92	1.74	2.03

TEST CONDITIONS: @200V60Hz		ASHRAE32 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]
-40	(-40)	1449	365	425	492	2.14	9.70	2.93	0.74	0.86
-35	(-31)	2066	521	605	604	2.38	13.88	3.43	0.86	1.00
-30	(-22)	2859	720	838	727	2.66	19.26	3.94	0.99	1.15
-25	(-13)	3826	964	1121	860	2.96	25.89	4.45	1.12	1.30
-20	(- 4)	4968	1252	1456	1002	3.28	33.79	4.96	1.25	1.45
-15	(+ 5)	6285	1584	1842	1151	3.64	43.01	5.47	1.38	1.60
-10	(+14)	7777	1960	2279	1306	4.02	53.58	5.95	1.50	1.74

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		