COMPRESSOR DEFINITION

Designation	**NE 1130Z**
Nominal Voltage/Frequency	**220-240 V 50 Hz**
Engineering Number	**262CA50**

A - APPLICATION / LIMIT WORKING CONDITIONS

1 Type	Hermetic reciprocating compressor		
2 Refrigerant	R-134a		
3 Nominal voltage and frequency	220-240 / 50	[V / Hz]	
4 Application type	Low Back Pressure R134a		
4.1 Evaporating temperature range	-30°C to -5°C	(-22°F to 23°F)	
5 Motor type	RSIR		
6 Starting torque	LST - Low Starting Torque		
7 Expantion device	Capillary tube		
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	1/3	[hp]
2 Displacement	12.11	[cm³] (0.739 cu.in)
2.1 Bore	27.775	
2.2 Stroke	10.000	
3 Lubricant charge	350	[ml] (11.84 fl.oz.)
3.1 Lubricants approved		
3.2 Lubricants type/viscosity	ESTER / ISO22	
4 Weight(with oil charge)	10.9	[kg] (24.03 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		
3 Start capacitor	-	[µF(VAC minimum)]
4 Run capacitor	-	[µF(VAC minimum)]
5 Motor protection (external)	T0156/G5	
6 Start winding resistance	31.50	[Ω at 25ºC (77ºF)] +/- 8%
7 Run winding resistance	6.40	[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)	2.01	[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: **@220V50Hz**			**ASHRAELBP32** **Fan**		Evaporating temperature **-23.3°C (-9.94°F)** (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]
1103	278	323	245	1.48	6.27	4.50	1.13	1.32

E - PERFORMANCE - CURVES

TEST CONDITIONS: **@220V50Hz** — **ASHRAE32** **Fan** — (Condensing temperature **35ºC (+95ºF)**)

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]
-30	**(-22)**	858	216	251	194	1.31	4.86	4.43	1.12	1.30
-25	**(-13)**	1138	287	334	218	1.46	6.46	5.21	1.31	1.53
-20	**(- 4)**	1475	372	432	247	1.62	8.40	5.97	1.51	1.75
-15	**(+ 5)**	1869	471	548	279	1.78	10.67	6.70	1.69	1.96
-10	**(+14)**	2319	584	680	315	1.94	13.29	7.37	1.86	2.16
-5	**(+23)**	2826	712	828	355	2.10	16.26	7.96	2.01	2.33

TEST CONDITIONS: **@220V50Hz** — **ASHRAE32** **Fan** — (Condensing temperature **45ºC (+113ºF)**)

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]
-30	**(-22)**	1076	271	316	296	1.43	6.87	4.10	1.00	1.20
-20	**(- 4)**	1394	351	409	259	1.62	7.94	5.38	1.36	1.58
-15	**(+ 5)**	1779	448	521	296	1.81	10.16	6.01	1.51	1.76
-10	**(+14)**	2224	560	652	337	2.00	12.74	6.61	1.66	1.94
-5	**(+23)**	2729	688	800	381	2.19	15.70	7.15	1.80	2.10

TEST CONDITIONS: **@220V50Hz** — **ASHRAE32** **Fan** — (Condensing temperature **55ºC (+131ºF)**)

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]
-30	**(-22)**	755	190	221	199	1.19	4.28	3.79	0.96	1.11
-25	**(-13)**	1004	253	294	233	1.41	5.70	4.31	1.09	1.26
-20	**(- 4)**	1316	332	386	271	1.63	7.49	4.86	1.22	1.42
-15	**(+ 5)**	1692	426	496	312	1.85	9.66	5.41	1.36	1.59
-10	**(+14)**	2132	537	625	358	2.07	12.21	5.96	1.50	1.75
-5	**(+23)**	2635	664	772	407	2.29	15.16	6.48	1.63	1.90

F - EXTERNAL CHARACTERISTICS

1 Base plate	European Standard		
2 Tray holder	No		
3 Connectors			
3.1 SUCTION	8.1 +0.10/+0.00	[mm]	(0.319" +0.004"/+0.000")
3.1.1 Material	Copper		
3.1.2 Shape	Slanted 42°		
3.2 DISCHARGE	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.2.1 Material	Copper		
3.2.2 Shape	Straight		
3.3 PROCESS	6.1 +0.10/+0.00	[mm]	(0.240" +0.004"/+0.000")
3.3.1 Material	Copper		
3.3.2 Shape	Slanted 42°		
3.4 Oil cooler (Copper)	No	[mm]	
3.5 Connector sealing	Rubber Plugs		