

Model

SC18MNX

Sales code:

104H8875

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	14.00 kg / 30.86lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18MNX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, EAC, VDE
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

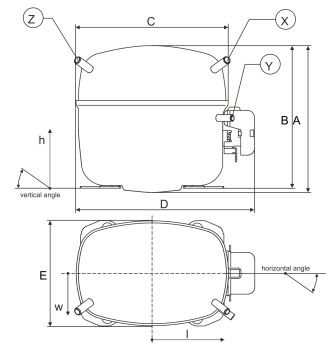
Oil type	POE	Winding resistance main	3.4 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.4 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

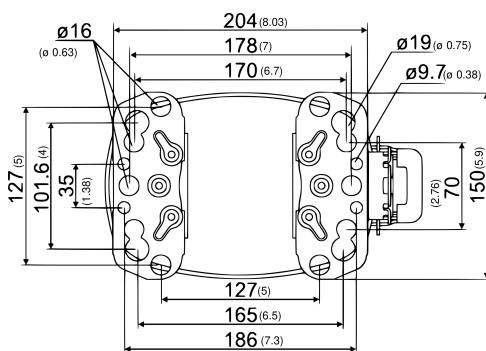
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

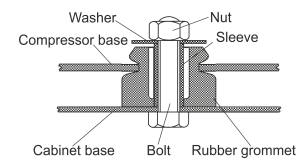


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

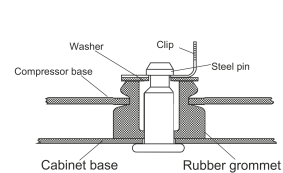
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	one comp.	multi pack
Bolt joint M6 ø16mm	118-1917	118-1918
Bolt joint ø1/4" ø16mm	118-1946	-
Bolt joint ø1/4" ø19mm	118-1949	-
Snap-on ø7,3 ø16mm	118-1947	118-1919

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Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC, EAC, VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

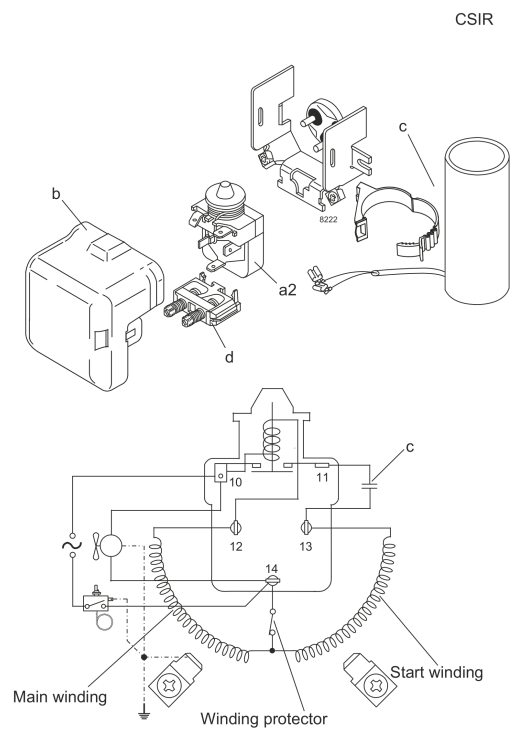
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a2 relay 117U7011

c start capacitor (80µF) 117U5017

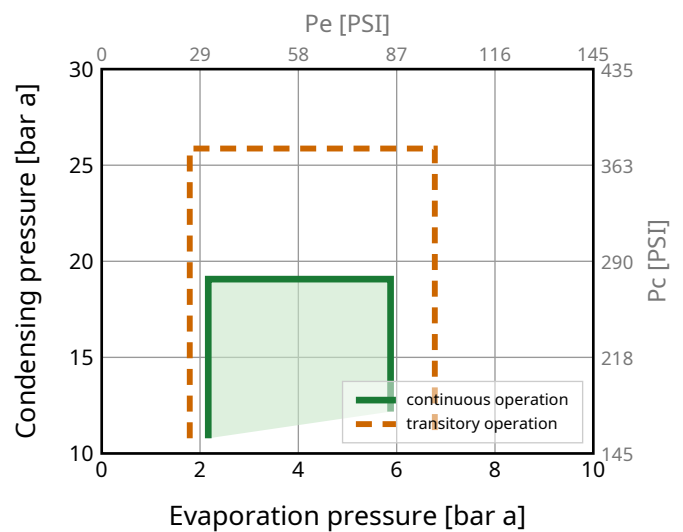
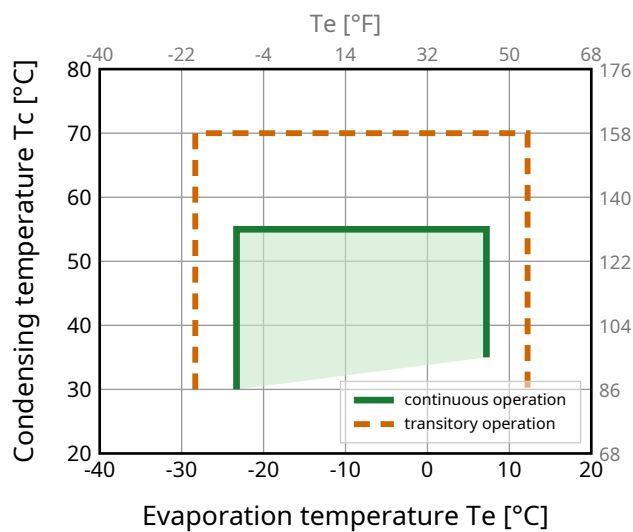
d cord relief 103N1004

b plastic cover 103N2009

Alternative components

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°C] [°F]	[°C] [°F]	[°C] [°F]	[°C] [°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]	
-6.7 20	54.4 129.9	35 95	46.1 115	1365	4659	1174	1.71	5.83	799	4.74	15.63	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1088	3712	936	1.42	4.86	764	4.61	13.83	CECOMAF MBP
-10 14	45 113	20 68	45 113	1206	4114	1037	1.69	5.77	713	4.41	14.84	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1282	4375	1103	1.67	5.71	766	4.60	16.67	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1254	4277	1078	1.76	6.00	713	4.41	14.39	opt MBP 1
-25 -13	45 113	32 89.6	45 113	675	2303	580	1.22	4.17	552	3.90	7.65	opt MBP 2

Performance Tables

R290, 220 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	730	2492	628	1.27	4.34	574	3.97	8.29
-20	-4	844	2881	726	1.38	4.70	612	4.08	9.61
-15	5	1035	3532	890	1.56	5.31	665	4.25	11.83
-10	14	1254	4277	1078	1.76	6.00	713	4.41	14.39
-5	23	1506	5138	1295	1.99	6.79	757	4.56	17.39
0	32	1798	6136	1547	2.25	7.68	799	4.71	20.91
5	41	2137	7291	1838	2.54	8.66	842	4.87	25.04
7.2	45	2302	7855	1980	2.67	9.12	861	4.95	27.08

pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F

-23.3	-10	628	2144	540	1.06	3.60	595	4.02	7.89
-20	-4	729	2488	627	1.14	3.88	640	4.17	9.18
-15	5	897	3059	771	1.27	4.34	704	4.39	11.34
-10	14	1088	3712	936	1.42	4.86	764	4.61	13.83
-5	23	1309	4466	1126	1.59	5.43	822	4.83	16.75
0	32	1566	5343	1347	1.78	6.07	880	5.05	20.19
5	41	1865	6364	1604	1.99	6.78	939	5.28	24.26
7.2	45	2012	6864	1730	2.08	7.11	966	5.39	26.28