

Model

SC10MNX

Sales code:

104H8075

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	10.29 cm3 / 0.63cu.in
Compressors on pallet	80



General – Configurations With SC10MNX

-	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	5.100 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.50 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm³ / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



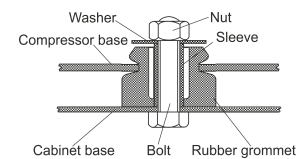
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

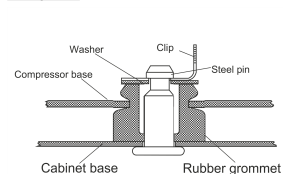


Dimensions in mm [in]

Bolt joint



Snap-on



	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
LRA (locked rotor amps / 4s/ U(N))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

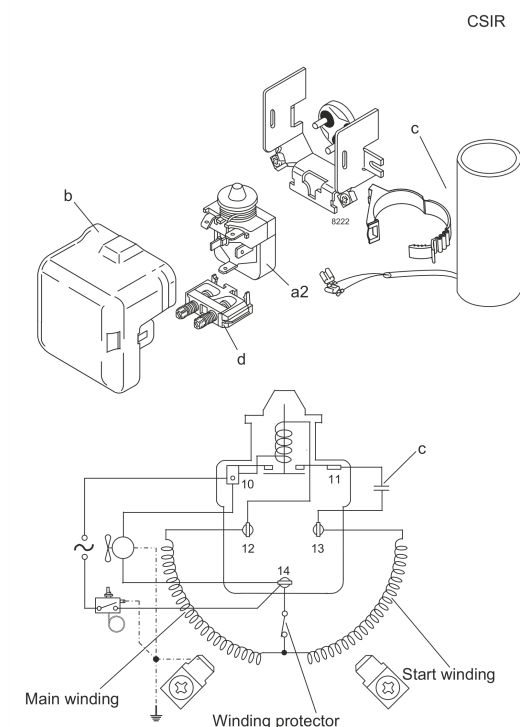
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a2 relay 117U7005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Alternative components

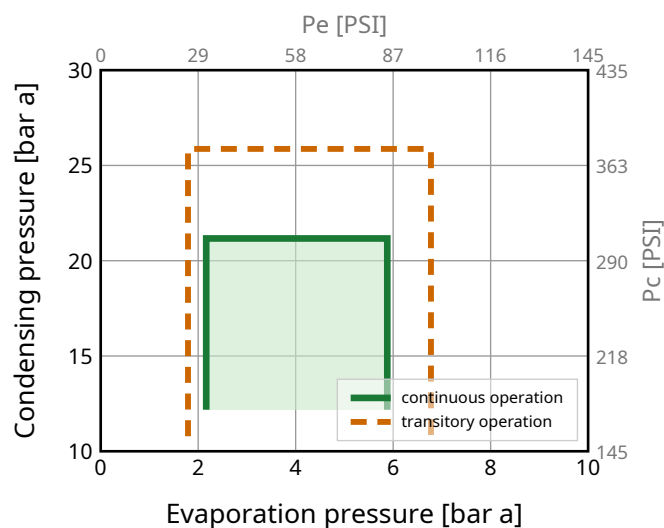
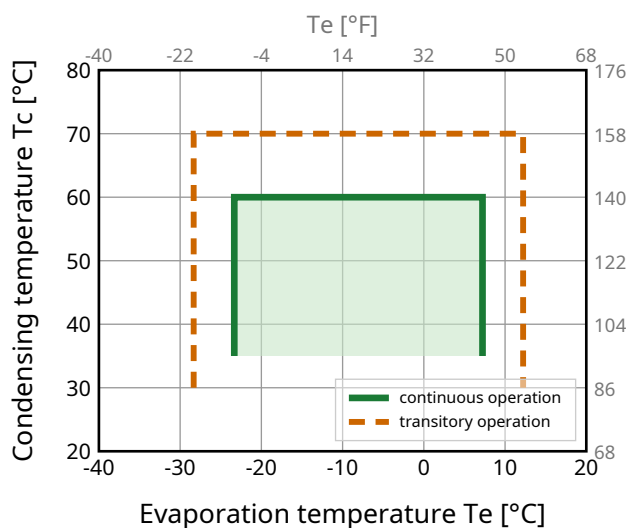
a2 relay 117U7005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

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	766	2615	659	1.70	5.80	451	2.83	8.78	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	593	2024	510	1.38	4.71	430	2.76	7.54	CECOMAF MBP
-10 14	45 113	20 68	45 113	687	2345	591	1.72	5.86	400	2.67	8.46	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	735	2508	632	1.71	5.83	430	2.76	9.56	ARI540 MBP
-10 14	45 113	32 89.6	45 113	715	2438	615	1.78	6.09	400	2.67	8.21	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	406	1386	349	1.32	4.49	308	2.42	4.13	opt LBP

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	364	1241	313	1.18	4.03	308	2.42	4.13
-20	-4	439	1499	378	1.30	4.45	337	2.49	5.00
-15	5	567	1936	488	1.52	5.19	373	2.58	6.48
-10	14	715	2438	615	1.78	6.09	400	2.67	8.21
-5	23	883	3012	759	2.09	7.14	422	2.75	10.20
0	32	1074	3665	924	2.45	8.36	438	2.82	12.49
5	41	1291	4404	1110	2.85	9.74	452	2.88	15.13
7.2	45	1394	4758	1199	3.05	10.40	458	2.91	16.41

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

-23.3	-10	283	964	243	0.96	3.29	293	2.43	3.55
-20	-4	350	1193	301	1.05	3.57	334	2.51	4.40
-15	5	463	1581	398	1.20	4.08	387	2.64	5.86
-10	14	593	2024	510	1.38	4.71	430	2.76	7.54
-5	23	742	2531	638	1.60	5.46	464	2.87	9.49
0	32	911	3107	783	1.85	6.33	491	2.98	11.74
5	41	1102	3760	948	2.15	7.33	513	3.07	14.34
7.2	45	1194	4074	1027	2.29	7.81	522	3.12	15.60