

Model

SCE18MNX

Sales code:

104H8889

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18MNX

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-253 V
Approvals	UL, KC, CB
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Protector, relay and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

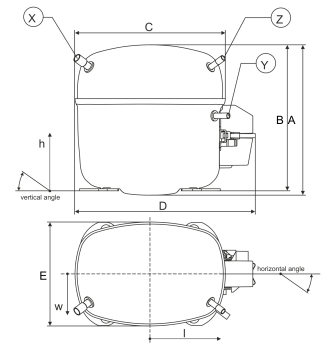
Oil type	POE	Winding resistance main	2.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	21.20 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

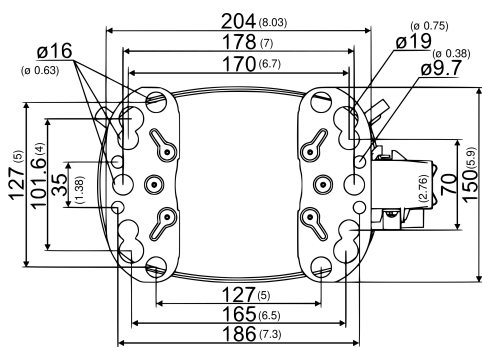
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
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)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL, KC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	27.7 A
RLA (rated load amps / 1s/ U(N))	5.2 A
Cut in current (U(N))	27.7 A

Ambient/ machine room temperatures minimum /maximum

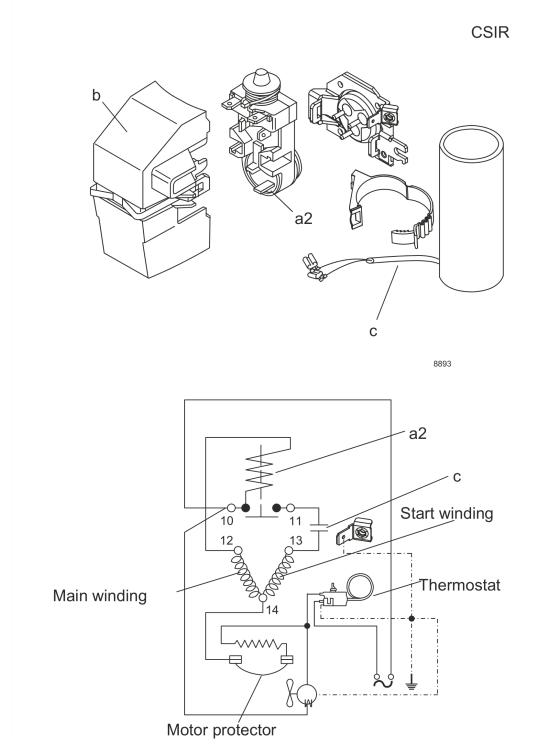
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



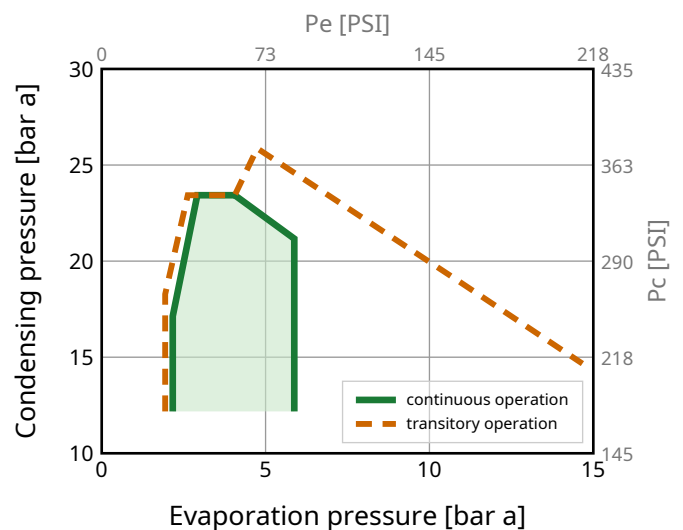
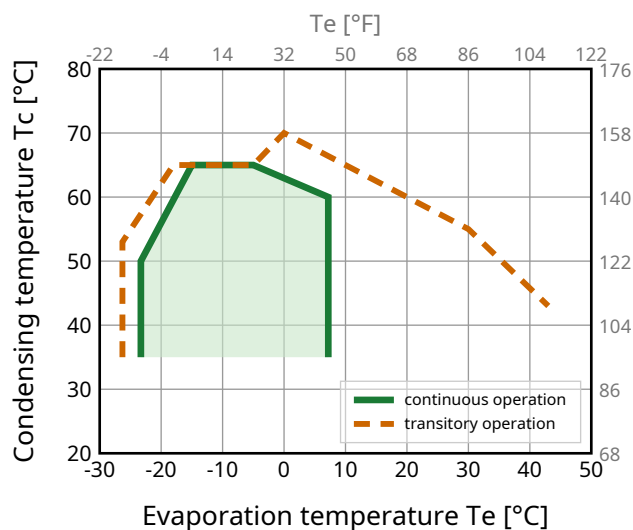
Components (relay + cover: pre-assembled)

a2 assy. relay + ext. protector (T0715) 117U7412

c start capacitor (60µF, 6.3mm, 82kOhm) 117U5076

b plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 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	1796	6129	1545	1.97	6.71	913	5.07	20.57	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1420	4845	1221	1.64	5.58	868	4.92	18.06	CECOMAF MBP
-10 14	45 113	20 68	45 113	1591	5428	1368	2.02	6.91	786	4.52	19.58	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1693	5778	1456	1.96	6.70	862	4.81	22.02	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1654	5643	1422	2.10	7.18	786	4.52	18.99	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1038	3542	893	1.71	5.85	606	3.96	10.55	opt LBP

Performance Tables

R290, 230 V/60 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	930	3172	800	1.53	5.24	606	3.96	10.55
-20	-4	1093	3730	940	1.67	5.70	654	4.10	12.44
-15	5	1360	4640	1170	1.88	6.41	723	4.31	15.54
-10	14	1654	5643	1422	2.10	7.18	786	4.52	18.99
-5	23	1980	6756	1703	2.36	8.06	838	4.69	22.87
0	32	2343	7996	2015	2.68	9.13	875	4.83	27.25
5	41	2748	9377	2363	3.07	10.48	894	4.91	32.21
7.2	45	2941	10033	2529	3.28	11.20	896	4.92	34.59

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

-23.3	-10	756	2578	650	1.17	3.99	646	4.19	9.48
-20	-4	905	3087	778	1.29	4.39	703	4.37	11.39
-15	5	1149	3921	988	1.46	4.98	788	4.65	14.54
-10	14	1420	4845	1221	1.64	5.58	868	4.92	18.06
-5	23	1722	5876	1481	1.83	6.24	941	5.17	22.04
0	32	2060	7029	1772	2.06	7.02	1002	5.39	26.57
5	41	2439	8321	2097	2.33	7.95	1047	5.55	31.72
7.2	45	2619	8937	2253	2.47	8.42	1061	5.60	34.22