

Model
SCE15MNX

Sales code:
104H8579

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SCE15MNX

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

Application Notes

- Protector 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

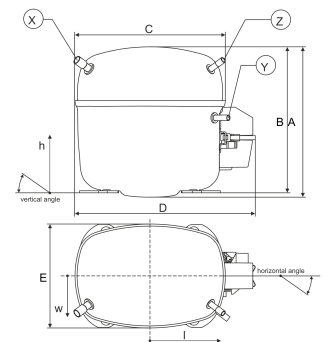
Oil type	POE	Winding resistance main	3.12 Ohm
Oil viscosity	32cSt	Winding resistance aux	11.25 Ohm
Oil quantity	541 / 18.29fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

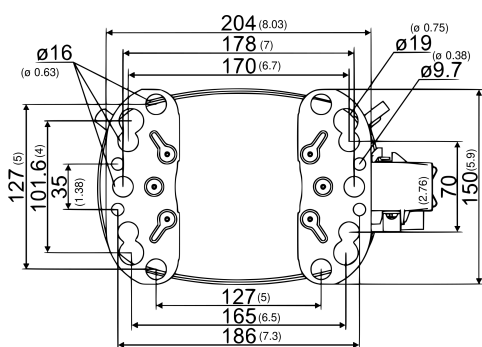
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

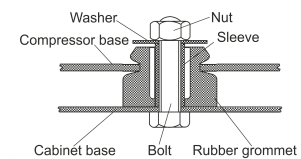


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

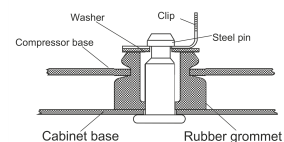
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	23.34 A
RLA (rated load amps / 1s/ U(N))	4.49 A
Cut in current (U(N))	23.34 A

Ambient/ machine room temperatures minimum /maximum

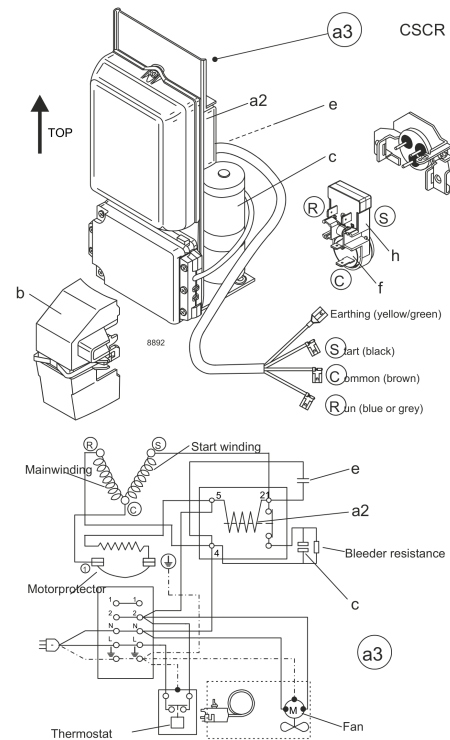
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit (550mm) 117-7808

f / h motor protector assy. (T1116) 117U8002

b plastic cover + clamp 117U1021

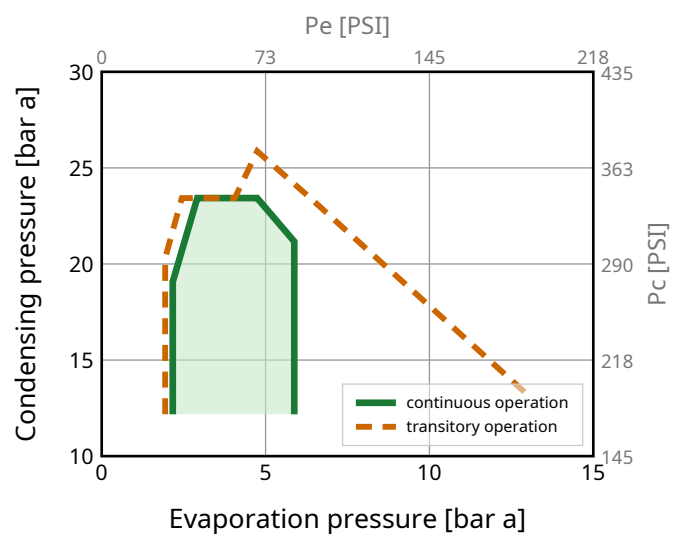
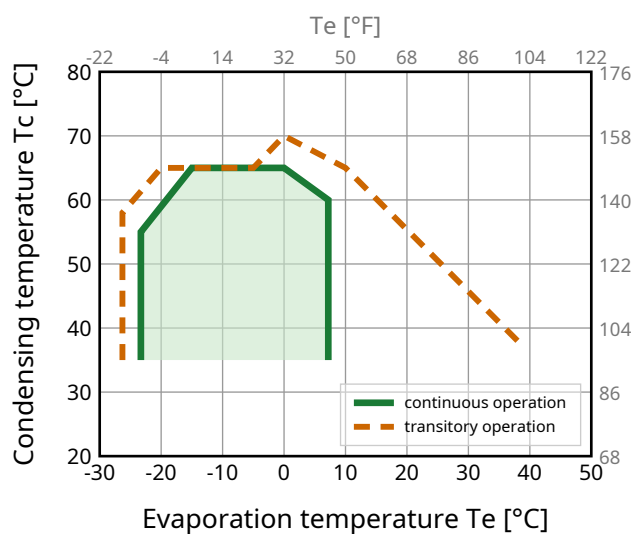
Alternative components

a2 potential relay (RVA2AM3R A89) 117-7601

e run capacitor (10 μ F, 6.3mm) 117-7121

c start capacitor (80 μ F) 117U5373

Operation Pressure Range



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Standard Conditions

R290, 230 V/60 Hz, CSCR, 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	1554	5302	1336	2.25	7.69	689	3.12	17.79	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1223	4174	1052	1.87	6.39	653	2.95	15.56	CECOMAF MBP
-10 14	45 113	20 68	45 113	1378	4702	1185	2.22	7.57	621	2.75	16.96	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1469	5011	1263	2.20	7.50	668	3.00	19.09	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1433	4888	1232	2.31	7.87	621	2.75	16.45	opt MBP 1
-25 -13	45 113	32 89.6	45 113	720	2456	619	1.57	5.34	460	2.07	8.16	opt MBP 2

Performance Tables

R290, 230 V/60 Hz, CSCR, 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	791	2699	680	1.65	5.63	479	2.15	8.97
-20	-4	935	3190	804	1.81	6.17	517	2.31	10.64
-15	5	1171	3996	1007	2.05	6.99	572	2.54	13.38
-10	14	1433	4888	1232	2.31	7.87	621	2.75	16.45
-5	23	1723	5879	1482	2.60	8.87	663	2.92	19.90
0	32	2046	6981	1760	2.95	10.08	693	3.05	23.79
5	41	2406	8208	2069	3.39	11.58	709	3.12	28.19
7.2	45	2577	8791	2216	3.63	12.37	711	3.12	30.31

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

-23.3	-10	636	2170	547	1.32	4.49	483	2.19	7.98
-20	-4	767	2617	660	1.46	4.97	526	2.38	9.65
-15	5	983	3353	845	1.66	5.67	591	2.68	12.43
-10	14	1223	4174	1052	1.87	6.39	653	2.95	15.56
-5	23	1492	5091	1283	2.10	7.18	709	3.20	19.10
0	32	1793	6118	1542	2.37	8.09	756	3.41	23.12
5	41	2130	7269	1832	2.69	9.19	791	3.56	27.71
7.2	45	2291	7818	1970	2.86	9.75	802	3.61	29.93