

Model

SCE18MNX

Sales code:

104H8879

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	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

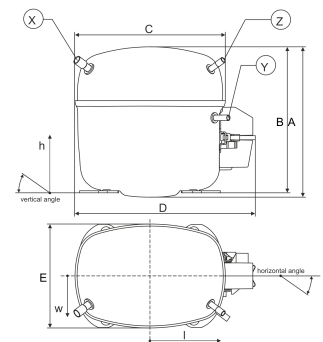
Oil type	POE	Winding resistance main	2.580 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.77 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

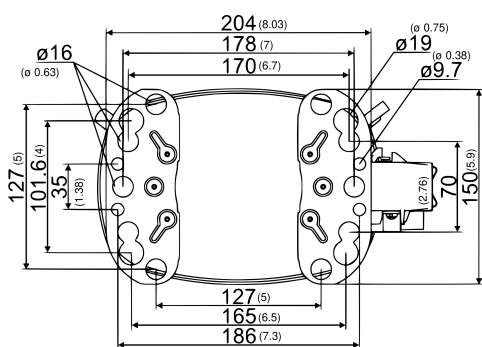
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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

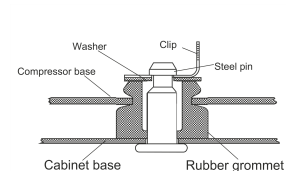
Mounting Accessories



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	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))	25.5 A
RLA (rated load amps / 1s/ U(N))	5.21 A
Cut in current (U(N))	25.5 A

Ambient/ machine room temperatures minimum /maximum

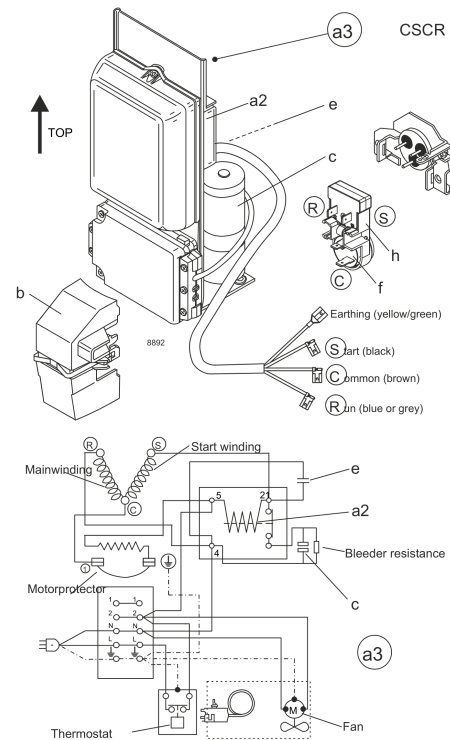
Ambient temperature range: 10 - 43°C / 50 - 109°F

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) 117-7807

f / h motor protector assy. (T0715) 117U8003

b plastic cover + clamp 117U1021

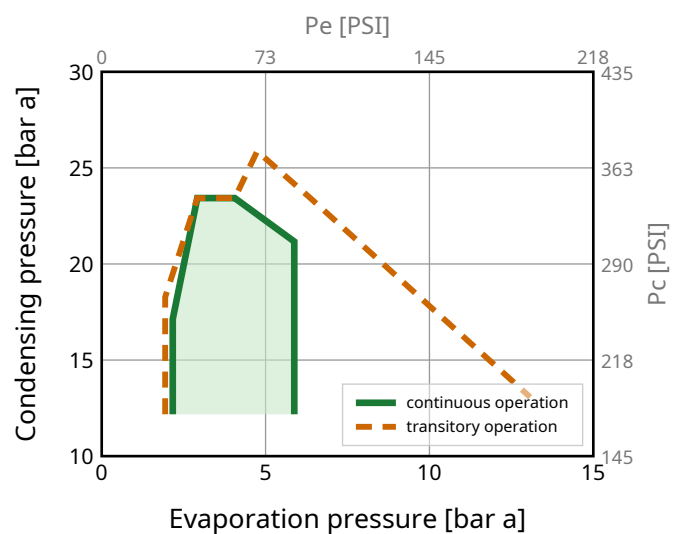
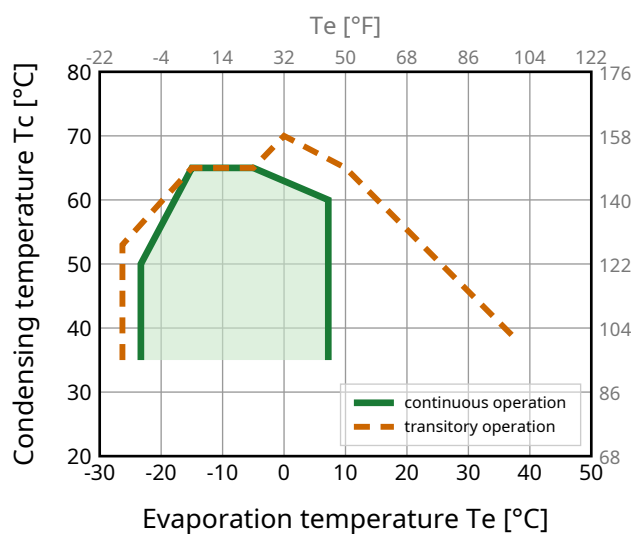
Alternative components

a2 potential relay (RVA 2GR134) 117-7445

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	1804	6154	1551	2.21	7.53	817	3.97	20.65	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1425	4863	1226	1.84	6.27	776	3.81	18.13	CECOMAF MBP
-10 14	45 113	20 68	45 113	1596	5447	1373	2.19	7.47	730	3.56	19.65	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1700	5800	1462	2.16	7.37	787	3.81	22.10	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1660	5663	1427	2.27	7.76	730	3.56	19.06	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1040	3549	894	1.83	6.23	569	2.92	10.56	opt LBP

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	931	3178	801	1.64	5.58	569	2.92	10.57
-20	-4	1096	3738	942	1.79	6.11	612	3.09	12.46
-15	5	1364	4654	1173	2.02	6.91	674	3.34	15.58
-10	14	1660	5663	1427	2.27	7.76	730	3.56	19.06
-5	23	1988	6783	1710	2.56	8.73	777	3.74	22.96
0	32	2353	8028	2023	2.90	9.90	811	3.86	27.36
5	41	2759	9415	2373	3.33	11.37	828	3.91	32.34
7.2	45	2952	10074	2539	3.56	12.14	830	3.91	34.73

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

-23.3	-10	757	2582	651	1.30	4.44	581	3.02	9.50
-20	-4	906	3093	780	1.44	4.91	631	3.22	11.41
-15	5	1152	3932	991	1.64	5.58	705	3.52	14.58
-10	14	1425	4863	1226	1.84	6.27	776	3.81	18.13
-5	23	1730	5901	1487	2.06	7.02	840	4.06	22.14
0	32	2070	7062	1780	2.31	7.90	894	4.26	26.69
5	41	2451	8361	2108	2.62	8.95	934	4.40	31.88
7.2	45	2632	8981	2264	2.78	9.49	947	4.44	34.39