

Model
SCE18MNX

Sales code:
104H7879

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	450g / 15.87oz
Weight	14.20 kg / 31.31lbs
Displacement	17.68 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18MNX

-	Conf. 1	Conf. 2
Motor configuration	CSCR	CSIR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL, EAC	UL, EAC
Starting torque	HST	HST
Refrigerant	R290	R290
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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

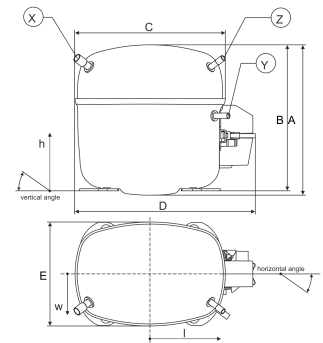
Oil type	POE	Winding resistance main	0.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.81 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

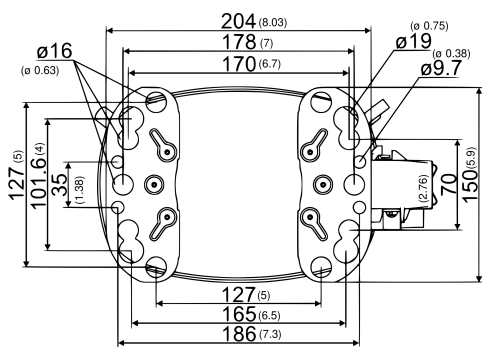
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

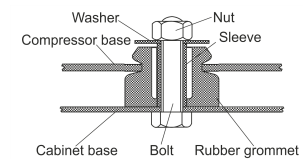


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

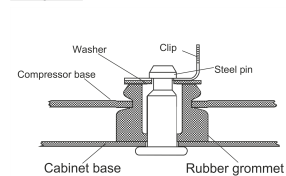
Mounting Accessories



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

Model

SCE18MNX

Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	23.5 μF
Start capacitor	410 μF
LRA (locked rotor amps / 4s/ U(N))	56.6 A
RLA (rated load amps / 1s/ U(N))	8.98 A
Cut in current (U(N))	56.6 A

Ambient/ machine room temperatures minimum /maximum

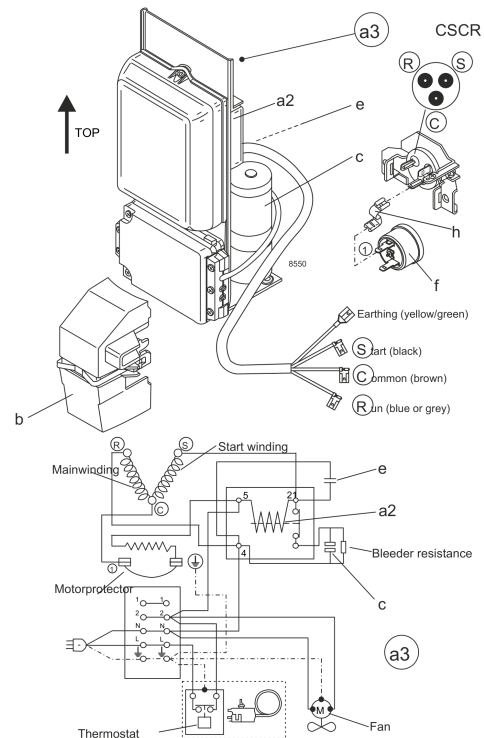
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

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

a3 SC starter kit (600mm) 117-7805

h protector holder 117U0439

f ext. protector (T0803) 117U3220

b plastic cover + clamp 117U1021

Alternative components

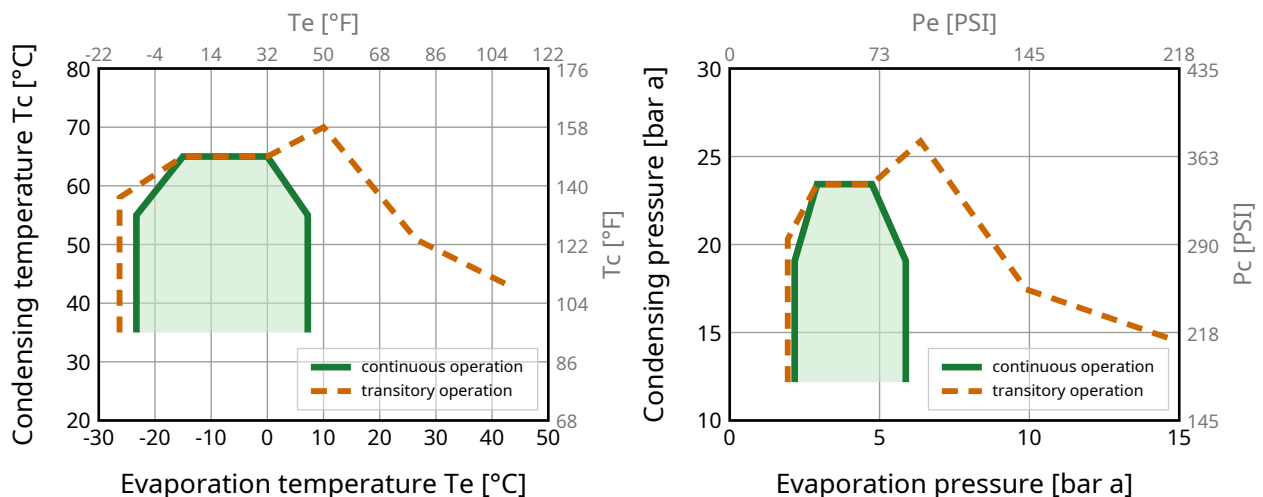
a3 SC starter kit (600mm) 117-7823

a2 potential relay (RVA 7AB3R A39) 117-7443

e run capacitor (23,5 μ F, 6.3mm) 117-7133

c start capacitor (410 μ F, 6.3mm) 117U5379

Operation Pressure Range



Model

SCE18MNX

Configuration 1

Sales code:

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Standard Conditions

R290, 115 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	1796	6129	1545	2.13	7.26	844	8.43	20.57	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1421	4850	1222	1.76	6.02	806	8.13	18.08	CECOMAF MBP
-10 14	45 113	20 68	45 113	1598	5451	1374	2.16	7.38	738	7.73	19.66	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1700	5800	1462	2.13	7.26	798	8.17	22.10	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1661	5667	1428	2.25	7.68	738	7.73	19.07	opt MBP 1
-25 -13	45 113	32 89.6	45 113	848	2893	729	1.48	5.04	574	6.28	9.61	opt MBP 2

Performance Tables

R290, 115 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	928	3165	798	1.56	5.31	596	6.49	10.53
-20	-4	1090	3719	937	1.71	5.85	636	6.85	12.40
-15	5	1359	4637	1169	1.97	6.72	690	7.33	15.53
-10	14	1661	5667	1428	2.25	7.68	738	7.73	19.07
-5	23	2002	6833	1722	2.56	8.75	781	8.07	23.13
0	32	2390	8153	2055	2.92	9.97	818	8.37	27.79
5	41	2828	9651	2433	3.32	11.34	851	8.61	33.15
7.2	45	3040	10371	2614	3.52	12.00	864	8.71	35.76

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

-23.3	-10	737	2516	634	1.25	4.28	588	6.57	9.25
-20	-4	895	3054	770	1.38	4.71	649	7.00	11.27
-15	5	1147	3915	987	1.57	5.35	732	7.60	14.51
-10	14	1421	4850	1222	1.76	6.02	806	8.13	18.08
-5	23	1723	5879	1482	1.98	6.76	869	8.61	22.05
0	32	2059	7025	1771	2.23	7.60	925	9.04	26.55
5	41	2435	8309	2094	2.51	8.55	972	9.44	31.68
7.2	45	2615	8922	2249	2.64	9.01	990	9.61	34.16

Model

SCE18MNX

Configuration 2

Sales code:

104H7879

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	410 µF
LRA (locked rotor amps / 4s/ U(N))	56.6 A
RLA (rated load amps / 1s/ U(N))	8.98 A
Cut in current (U(N))	56.6 A

Ambient/ machine room temperatures minimum /maximum

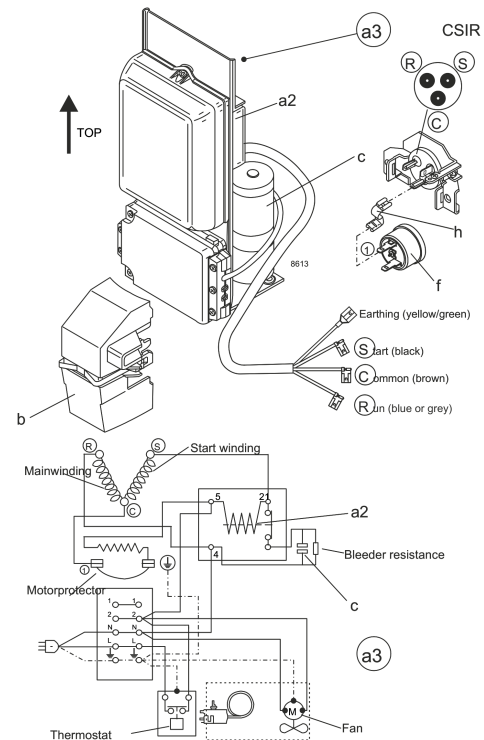
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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

a3 SC starter kit (600mm) 117-7803

h protector holder 117U0439

f ext. protector (T0803) 117U3220

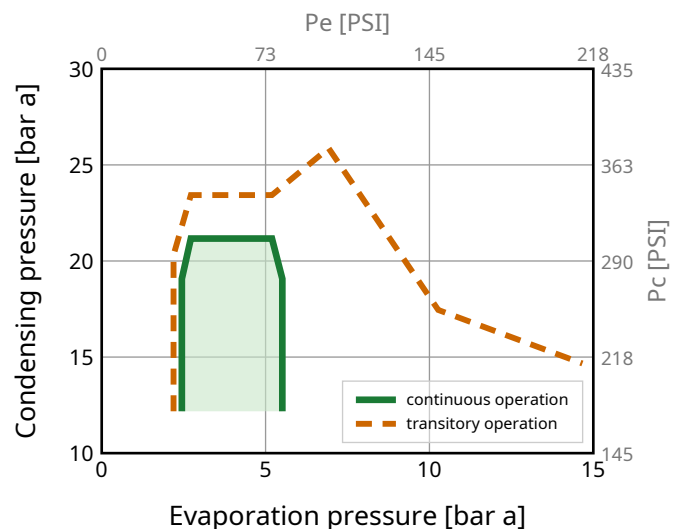
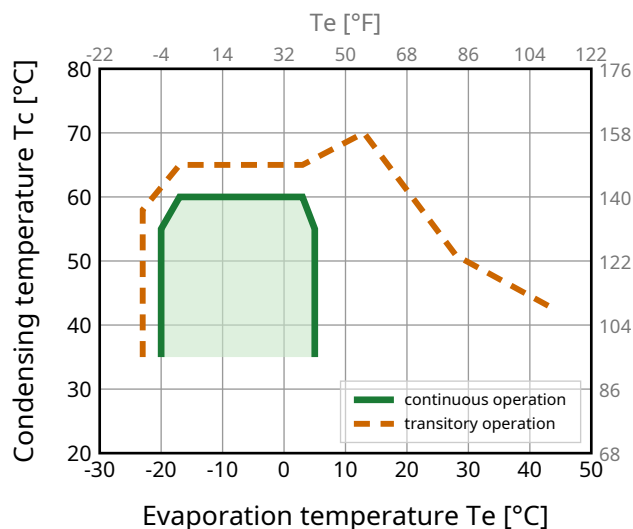
b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AB3R A39) 117-7443

c start capacitor (410µF, 6.3mm) 117U5379

Operation Pressure Range



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Configuration 2

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Standard Conditions

R290, 115 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	1784	6085	1534	1.99	6.78	898	10.38	20.42	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1411	4815	1214	1.65	5.62	857	10.01	17.95	CECOMAF MBP
-10 14	45 113	20 68	45 113	1586	5412	1364	2.02	6.89	785	9.52	19.52	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1688	5758	1451	1.99	6.78	849	10.06	21.94	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1649	5626	1418	2.10	7.17	785	9.52	18.93	opt MBP 1
-25 -13	45 113	32 89.6	45 113	842	2872	724	1.38	4.70	611	7.74	9.54	opt MBP 2

Performance Tables

R290, 115 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]
-20	-4	1082	3692	931	1.60	5.46	676	8.43	12.31
-15	5	1349	4603	1160	1.84	6.27	734	9.02	15.41
-10	14	1649	5626	1418	2.10	7.17	785	9.52	18.93
-5	23	1988	6783	1710	2.39	8.17	830	9.95	22.96
0	32	2372	8094	2040	2.73	9.30	870	10.30	27.59
5	41	2808	9581	2415	3.10	10.58	905	10.61	32.91

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

-20	-4	889	3032	764	1.29	4.39	690	8.62	11.18
-15	5	1139	3887	980	1.46	4.99	779	9.36	14.41
-10	14	1411	4815	1214	1.65	5.62	857	10.01	17.95
-5	23	1711	5837	1471	1.85	6.31	925	10.60	21.90
0	32	2044	6974	1758	2.08	7.09	984	11.14	26.36
5	41	2418	8249	2079	2.34	7.98	1034	11.63	31.45