

Model
SCE15MNX

Sales code:
104H7579

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	Conf. 2
Motor configuration	CSCR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
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

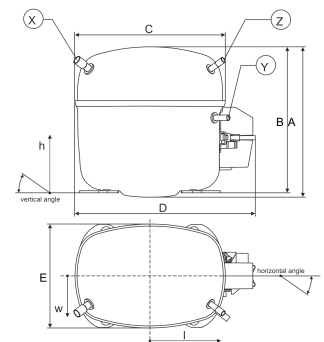
Oil type	POE	Winding resistance main	0.82 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.9 Ohm
Oil quantity	541 / 18.29fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

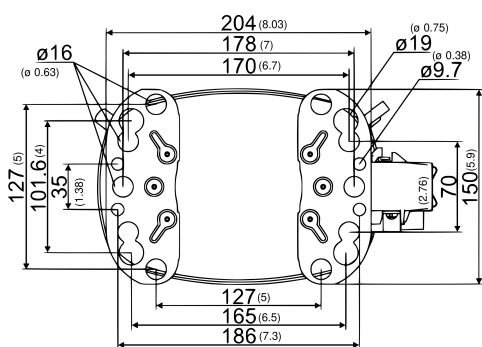
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

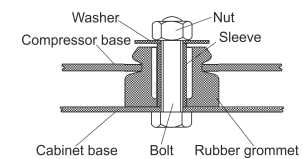


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

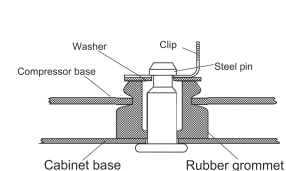
Mounting Accessories



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

SCE15MNX

Configuration 1

Sales code:

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Configuration

Motor configuration	CSCR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	23.5 μ F
Start capacitor	280 μ F
LRA (locked rotor amps / 4s/ U(N))	43.13 A
RLA (rated load amps / 1s/ U(N))	8.3 A
Cut in current (U(N))	43.13 A

Ambient/ machine room temperatures minimum /maximum

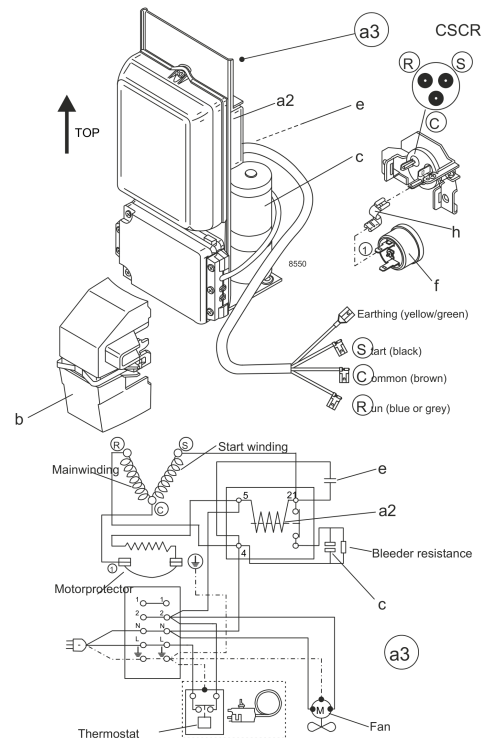
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (550mm) 117-7801

h protector holder 117U0439

f ext. protector (T1069/46) 117U3216

b plastic cover + clamp 117U1021

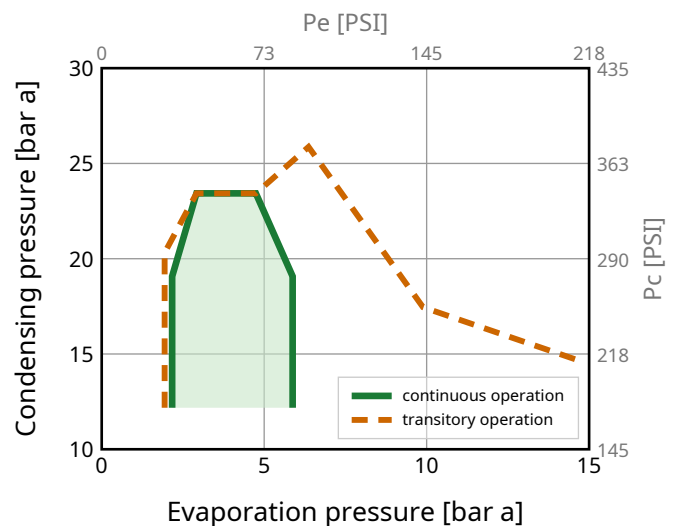
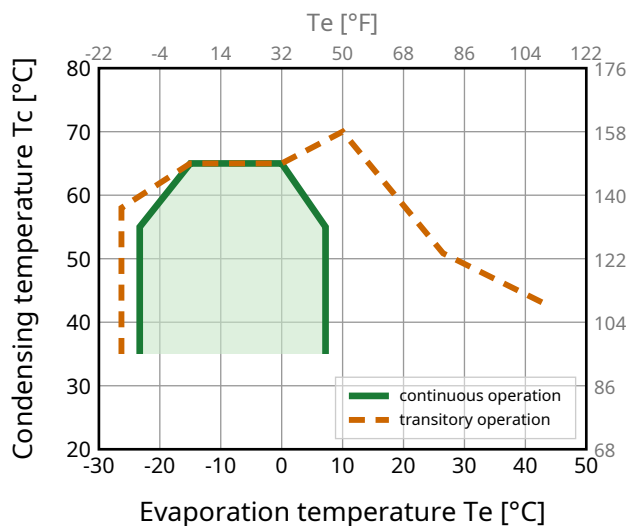
Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

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

c start capacitor (280 μ F, 6.3mm) 117U5350

Operation Pressure Range



Model

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Configuration 1

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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	1552	5296	1335	2.16	7.38	717	7.10	17.77	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1219	4159	1048	1.78	6.09	683	6.82	15.50	CECOMAF MBP
-10 14	45 113	20 68	45 113	1379	4704	1186	2.19	7.47	630	6.43	16.97	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1472	5022	1266	2.15	7.34	684	6.85	19.14	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1433	4890	1233	2.27	7.76	630	6.43	16.46	opt MBP 1
-25 -13	45 113	32 89.6	45 113	719	2453	618	1.46	4.98	492	5.44	8.15	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	784	2677	675	1.54	5.27	508	5.53	8.90
-20	-4	923	3150	794	1.72	5.86	538	5.74	10.50
-15	5	1162	3963	999	1.99	6.79	584	6.08	13.27
-10	14	1433	4890	1233	2.27	7.76	630	6.43	16.46
-5	23	1737	5928	1494	2.58	8.79	675	6.79	20.07
0	32	2073	7073	1783	2.89	9.87	716	7.14	24.11
5	41	2440	8324	2098	3.23	11.03	755	7.45	28.59
7.2	45	2610	8907	2245	3.39	11.57	770	7.57	30.71

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

-23.3	-10	636	2171	547	1.27	4.33	502	5.43	7.99
-20	-4	760	2594	654	1.38	4.72	550	5.78	9.57
-15	5	974	3324	838	1.57	5.37	619	6.31	12.32
-10	14	1219	4159	1048	1.78	6.09	683	6.82	15.50
-5	23	1494	5097	1285	2.02	6.90	739	7.28	19.12
0	32	1798	6134	1546	2.29	7.80	787	7.68	23.18
5	41	2130	7269	1832	2.58	8.81	825	8.00	27.71
7.2	45	2285	7798	1965	2.73	9.30	838	8.11	29.86

Model

SCE15MNX

Configuration 2

Sales code:

104H7579

Configuration

Motor configuration	CSIR
Power supply (nominal)	115-127 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	280 µF
LRA (locked rotor amps / 4s/ U(N))	43.13 A
RLA (rated load amps / 1s/ U(N))	8.3 A
Cut in current (U(N))	43.13 A

Ambient/ machine room temperatures minimum /maximum

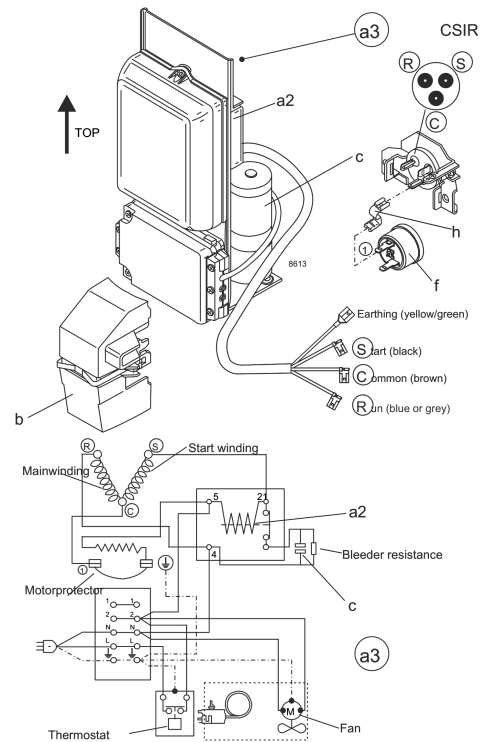
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (550mm) 117-7802

h protector holder 117U0439

f ext. protector (T1069/46) 117U3216

b plastic cover + clamp 117U1021

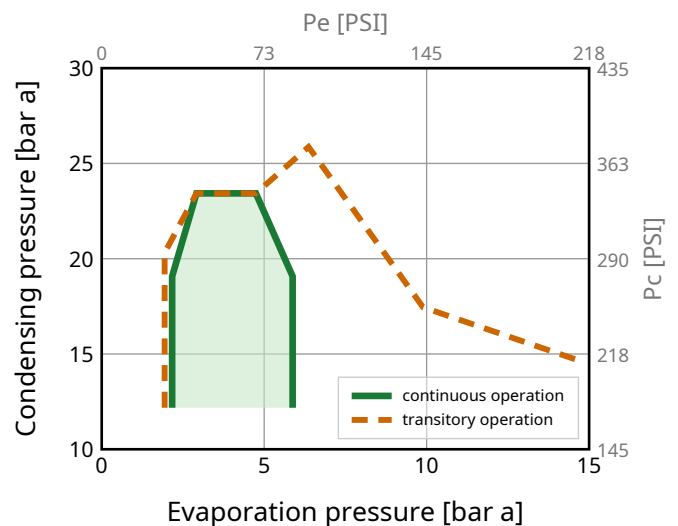
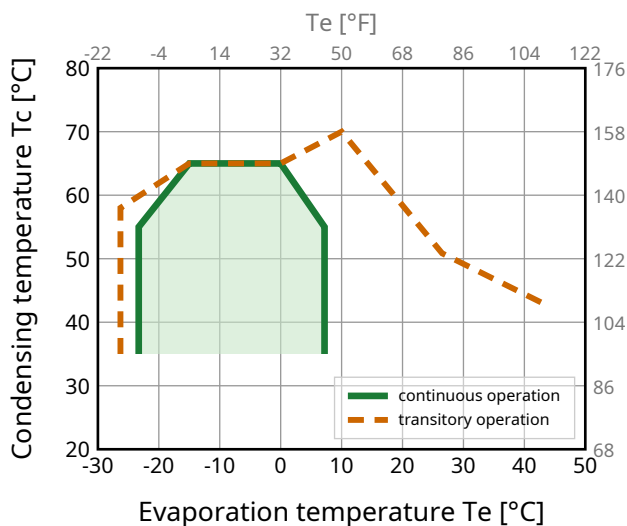
Alternative components

a3 SC starter kit (550mm) 117-7822

a2 potential relay (RVA 7AA3R) 117-7441

c start capacitor (280µF, 6.3mm) 117U5350

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	1535	5236	1320	2.05	6.99	749	7.42	17.57	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1205	4112	1036	1.69	5.77	713	7.12	15.33	CECOMAF MBP
-10 14	45 113	20 68	45 113	1363	4651	1172	2.07	7.07	658	6.72	16.77	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1455	4965	1252	2.04	6.95	714	7.15	18.92	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1417	4835	1219	2.15	7.35	658	6.72	16.27	opt MBP 1
-25 -13	45 113	32 89.6	45 113	711	2425	611	1.38	4.72	514	5.68	8.06	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]
-23.3	-10	776	2646	667	1.46	4.99	530	5.78	8.80
-20	-4	913	3114	785	1.63	5.55	562	5.99	10.38
-15	5	1148	3918	988	1.88	6.42	610	6.34	13.12
-10	14	1417	4835	1219	2.15	7.35	658	6.72	16.27
-5	23	1718	5861	1477	2.44	8.32	704	7.09	19.84
0	32	2050	6993	1763	2.74	9.35	748	7.46	23.83
5	41	2412	8230	2074	3.06	10.44	788	7.78	28.27
7.2	45	2581	8806	2220	3.21	10.96	804	7.91	30.36

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

-23.3	-10	629	2146	541	1.20	4.10	524	5.67	7.90
-20	-4	752	2564	646	1.31	4.47	574	6.04	9.46
-15	5	963	3286	828	1.49	5.08	647	6.59	12.18
-10	14	1205	4112	1036	1.69	5.77	713	7.12	15.33
-5	23	1477	5039	1270	1.91	6.53	772	7.61	18.90
0	32	1778	6065	1529	2.16	7.38	822	8.02	22.92
5	41	2106	7186	1811	2.44	8.34	862	8.36	27.40
7.2	45	2260	7709	1943	2.58	8.81	876	8.47	29.52