

Model
SCE15MNX

Sales code:
104H8549

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
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	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE
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

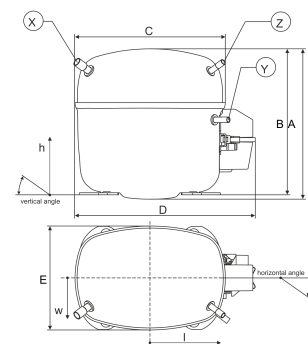
Oil type	POE	Winding resistance main	4.07 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.88 Ohm
Oil quantity	541 / 18.29fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

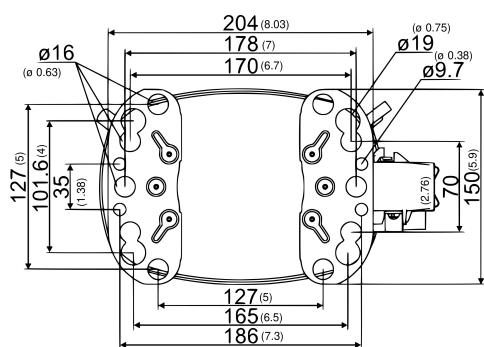
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

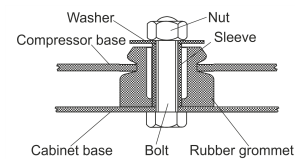


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

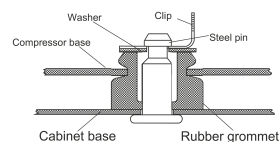
Mounting Accessories



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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Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	17.47 A
RLA (rated load amps / 1s/ U(N))	2.92 A
Cut in current (U(N))	17.47 A

Ambient/ machine room temperatures minimum /maximum

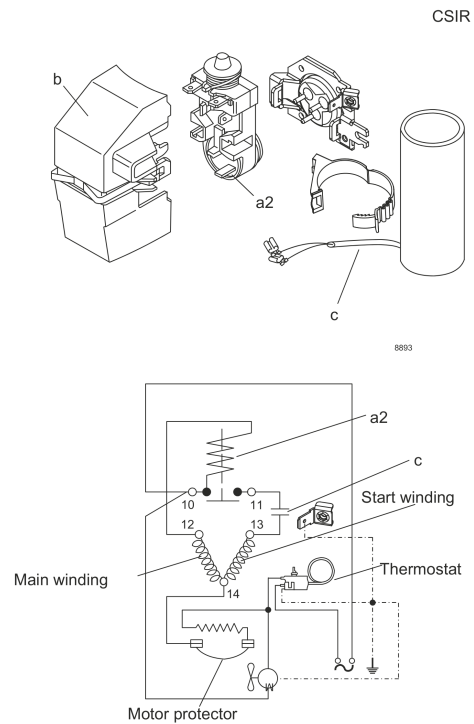
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

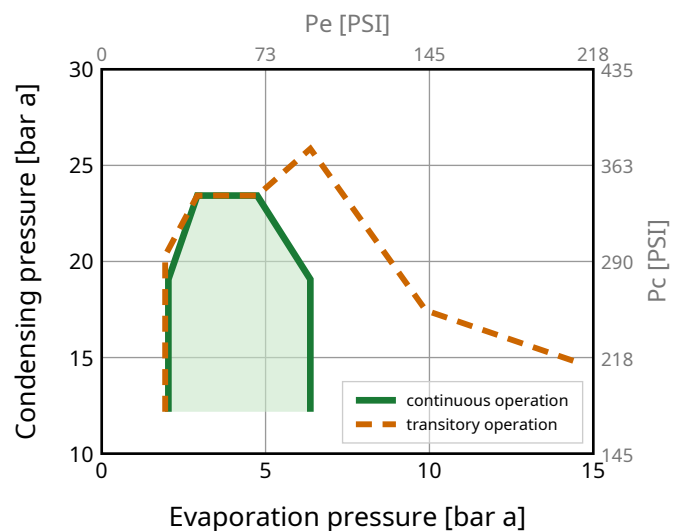
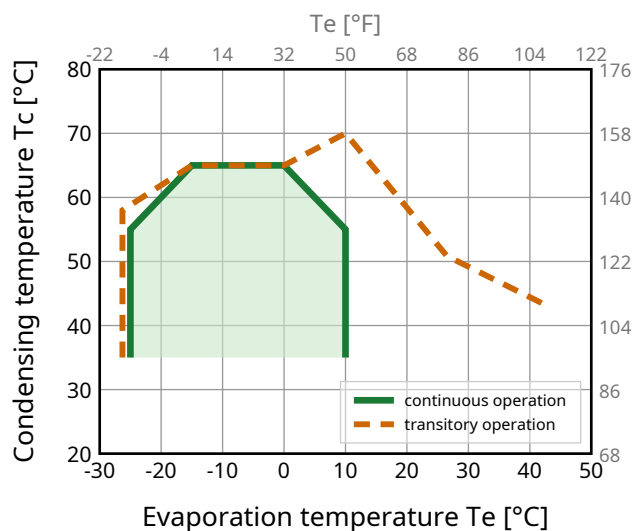
a2 assy. relay + ext. protector (T1133) 117U7405

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



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Standard Conditions

R290, 230 V/50 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	1268	4328	1091	2.04	6.96	622	3.37	14.52	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	999	3408	859	1.69	5.76	591	3.26	12.70	CECOMAF MBP
-10 14	45 113	20 68	45 113	1124	3833	966	2.07	7.05	543	3.12	13.83	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1201	4097	1033	2.03	6.93	591	3.27	15.61	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1168	3985	1004	2.15	7.33	543	3.12	13.41	opt MBP 1
-25 -13	45 113	32 89.6	45 113	585	1996	503	1.42	4.85	412	2.66	6.63	opt MBP 2

Performance Tables

R290, 230 V/50 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]
-25	-13	585	1996	503	1.42	4.85	412	2.66	6.63
-20	-4	751	2564	646	1.64	5.60	458	2.82	8.55
-15	5	945	3226	813	1.88	6.42	502	2.98	10.80
-10	14	1168	3985	1004	2.15	7.33	543	3.12	13.41
-5	23	1420	4846	1222	2.45	8.36	580	3.25	16.41
0	32	1704	5813	1465	2.80	9.55	609	3.35	19.81
5	41	2019	6889	1736	3.21	10.94	630	3.44	23.66
10	50	2368	8079	2036	3.70	12.61	640	3.49	28.00

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

-25	-13	485	1654	417	1.14	3.89	425	2.65	6.08
-20	-4	633	2158	544	1.31	4.49	481	2.85	7.96
-15	5	804	2742	691	1.50	5.10	537	3.06	10.16
-10	14	999	3408	859	1.69	5.76	591	3.26	12.70
-5	23	1220	4161	1049	1.90	6.48	642	3.45	15.61
0	32	1467	5005	1262	2.13	7.28	687	3.63	18.92
5	41	1742	5943	1498	2.40	8.20	725	3.79	22.66
10	50	2046	6980	1759	2.71	9.25	755	3.94	26.88