

Model
SCE15MNX

Sales code:
104H8589

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	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-253 V
Approvals	UL, KC, CB
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

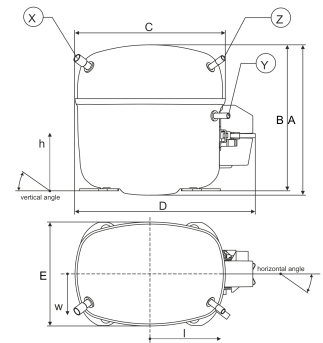
Oil type	POE	Winding resistance main	3.1 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.2 Ohm
Oil quantity	541 / 18.29fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

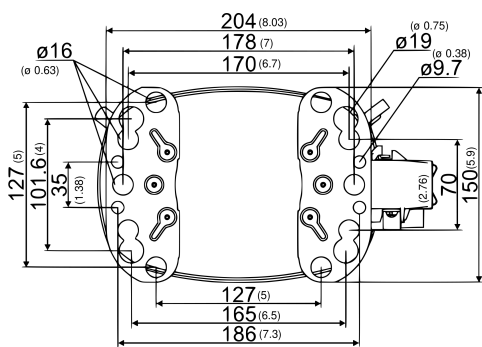
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

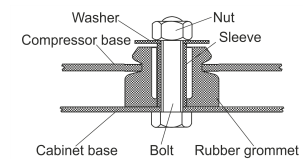


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

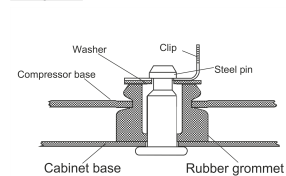
Mounting Accessories



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	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	187-253 V
Starting torque	HST
Approvals	UL, KC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	60 µF
LRA (locked rotor amps / 4s/ U(N))	23.6 A
RLA (rated load amps / 1s/ U(N))	4.5 A
Cut in current (U(N))	23.6 A

Ambient/ machine room temperatures minimum /maximum

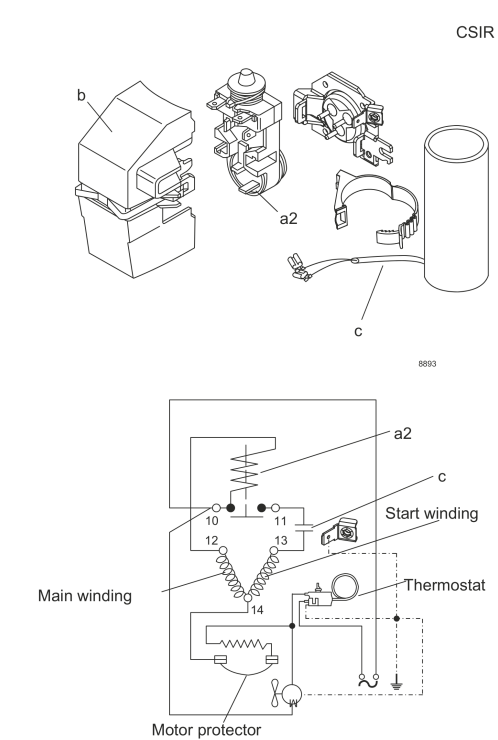
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



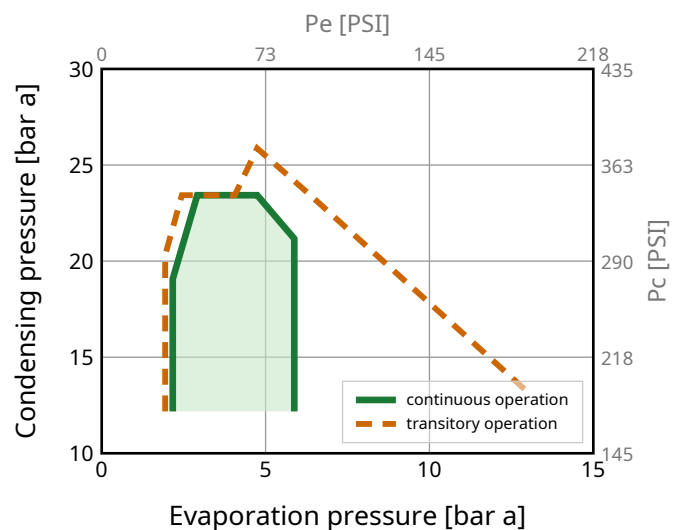
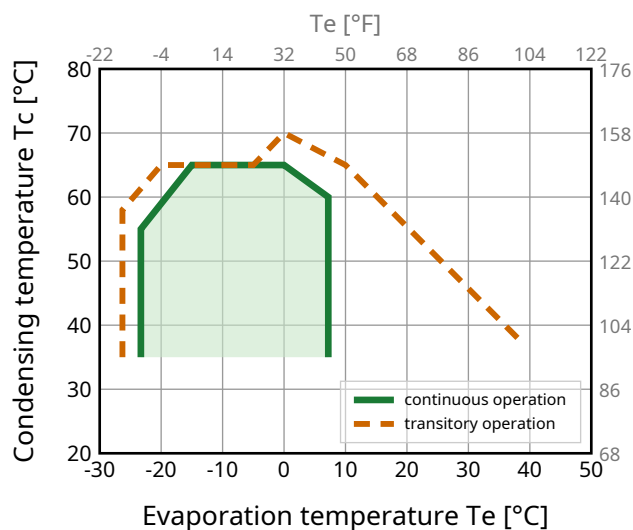
Components (relay + cover: pre-assembled)

a2 assy. relay + ext. protector (T1116) 117U7401

c start capacitor (60µF, 6.3mm, 82kOhm) 117U5076

b plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R290, 230 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	2.03	6.94	755	4.19	17.57	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1209	4125	1040	1.70	5.78	713	4.04	15.38	CECOMAF MBP
-10 14	45 113	20 68	45 113	1362	4647	1171	2.01	6.86	678	3.90	16.76	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1451	4950	1248	1.99	6.77	731	4.10	18.86	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1416	4831	1218	2.09	7.13	678	3.90	16.26	opt MBP 1
-25 -13	45 113	32 89.6	45 113	714	2437	614	1.45	4.96	491	3.32	8.09	opt MBP 2

Performance Tables

R290, 230 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	784	2675	674	1.53	5.21	514	3.38	8.90
-20	-4	926	3160	796	1.66	5.67	557	3.52	10.54
-15	5	1159	3953	996	1.87	6.37	620	3.72	13.24
-10	14	1416	4831	1218	2.09	7.13	678	3.90	16.26
-5	23	1702	5807	1464	2.35	8.01	725	4.07	19.66
0	32	2020	6893	1737	2.66	9.07	760	4.19	23.49
5	41	2375	8105	2043	3.05	10.42	778	4.27	27.84
7.2	45	2544	8681	2188	3.26	11.13	780	4.28	29.93

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

-23.3	-10	631	2153	543	1.22	4.16	518	3.38	7.92
-20	-4	760	2594	654	1.34	4.57	568	3.54	9.57
-15	5	973	3319	837	1.51	5.17	642	3.80	12.30
-10	14	1209	4125	1040	1.70	5.78	713	4.04	15.38
-5	23	1473	5027	1267	1.90	6.47	777	4.27	18.86
0	32	1769	6036	1521	2.13	7.26	831	4.46	22.81
5	41	2101	7168	1807	2.41	8.22	872	4.60	27.33
7.2	45	2259	7708	1943	2.55	8.71	884	4.65	29.51