

Model

SCE18MNX

Sales code:

104H8851

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18MNX

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CCC, EAC, CB	VDE, CCC, EAC, CB
Starting torque	HST	HST
Refrigerant	R290	R290
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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

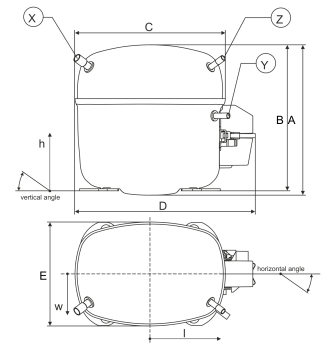
Oil type	POE	Winding resistance main	3.410 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.35 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

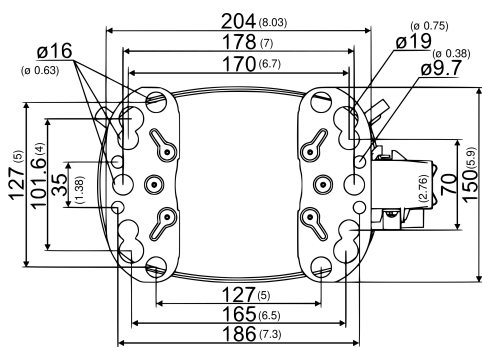
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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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Configuration 1

Sales code:

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Configuration

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, CCC, EAC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.13 A
RLA (rated load amps / 1s/ U(N))	2.2 A
Cut in current (U(N))	19.13 A

Ambient/ machine room temperatures minimum /maximum

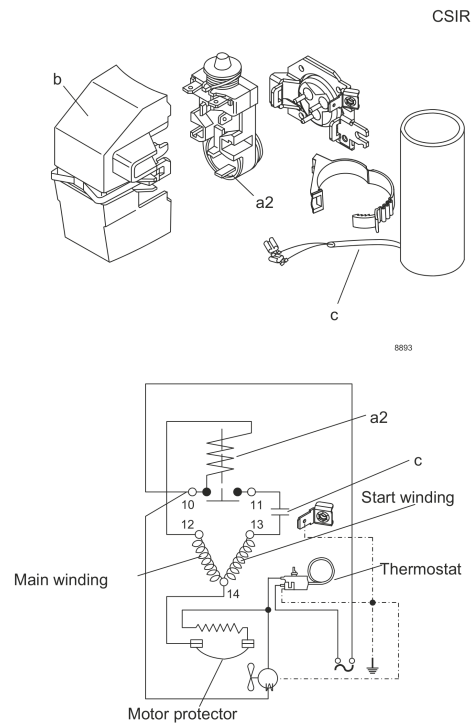
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

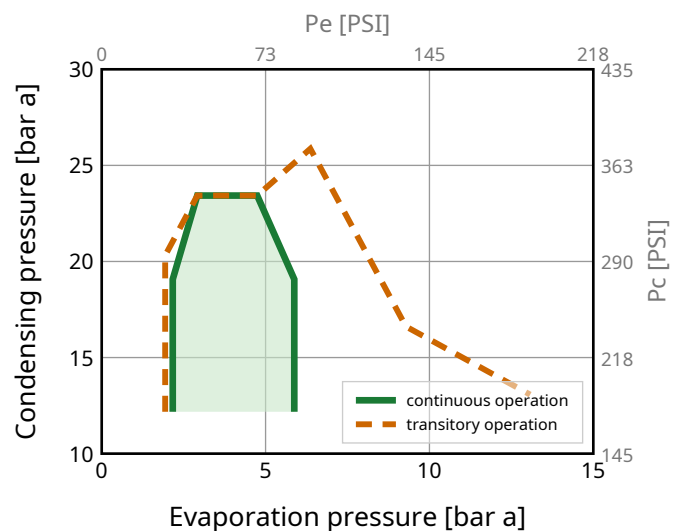
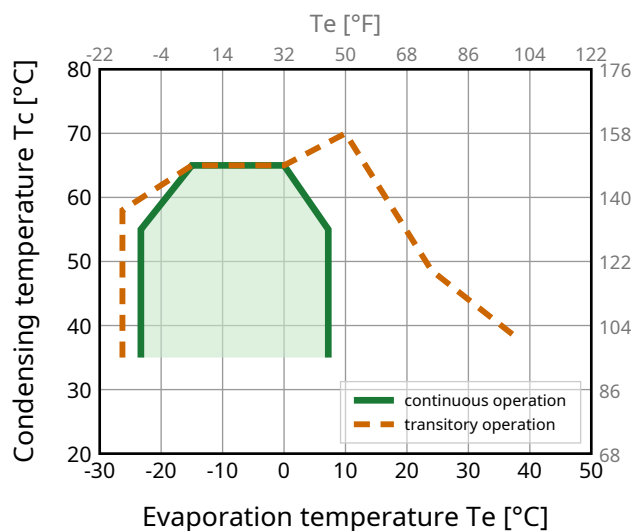
a2 assy. relay + ext. protector (T0214) 117U7406

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



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Configuration 1

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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	1503	5128	1293	1.98	6.75	760	4.42	17.21	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1190	4060	1023	1.64	5.61	724	4.30	15.13	CECOMAF MBP
-10 14	45 113	20 68	45 113	1322	4512	1137	1.99	6.78	665	4.12	16.27	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1412	4818	1214	1.95	6.66	723	4.30	18.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1375	4690	1182	2.07	7.05	665	4.12	15.79	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	868	2961	746	1.63	5.57	532	3.71	8.82	opt LBP

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]
-23.3	-10	777	2652	668	1.46	4.98	532	3.71	8.82
-20	-4	902	3077	776	1.60	5.45	564	3.80	10.26
-15	5	1120	3822	963	1.82	6.21	616	3.95	12.80
-10	14	1375	4690	1182	2.07	7.05	665	4.12	15.79
-5	23	1666	5685	1433	2.35	8.01	710	4.27	19.25
0	32	1996	6809	1716	2.68	9.13	746	4.39	23.20
5	41	2363	8063	2032	3.08	10.50	768	4.47	27.69
7.2	45	2537	8656	2182	3.28	11.20	773	4.48	29.85

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

-23.3	-10	654	2231	562	1.17	4.01	557	3.78	8.21
-20	-4	768	2621	661	1.29	4.39	596	3.89	9.67
-15	5	965	3292	830	1.46	4.99	660	4.09	12.20
-10	14	1190	4060	1023	1.64	5.61	724	4.30	15.13
-5	23	1444	4927	1242	1.84	6.28	784	4.51	18.48
0	32	1728	5897	1486	2.06	7.05	837	4.70	22.29
5	41	2043	6971	1757	2.33	7.93	879	4.85	26.58
7.2	45	2191	7477	1885	2.46	8.38	892	4.90	28.63

Model

SCE18MNX

Configuration 2

Sales code:

104H8851

Configuration

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, CCC, EAC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.13 A
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Cut in current (U(N))	19.13 A

Ambient/ machine room temperatures minimum /maximum

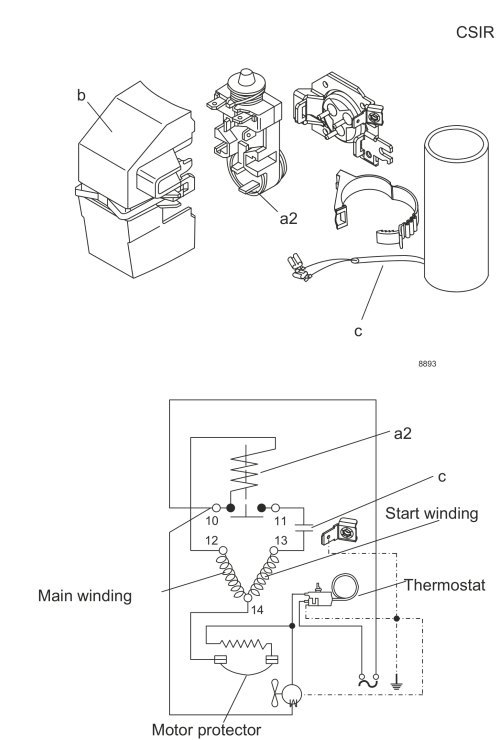
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

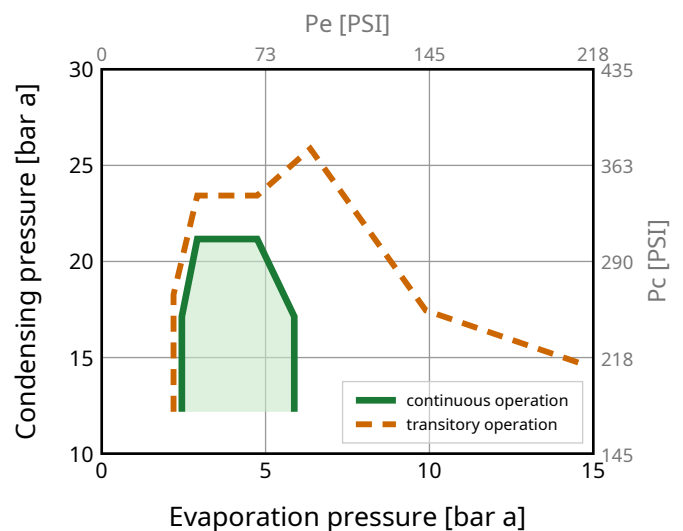
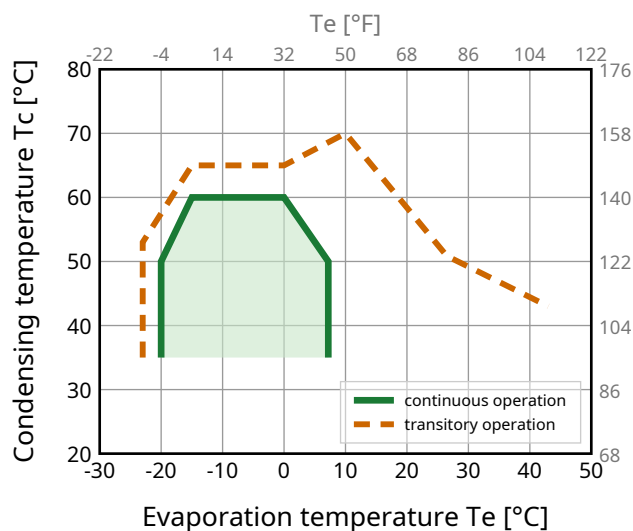
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c start capacitor (80µF) 117U5017

d cord relief 103N1004

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Operation Pressure Range



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Configuration 2

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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]	
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