

Model

SCE21MNX

Sales code:

104H8160

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SCE21MNX

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

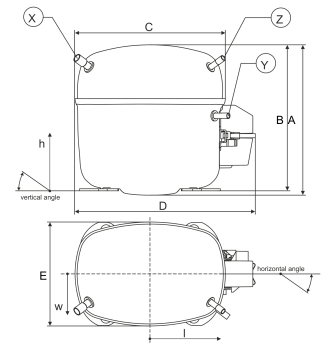
Oil type	POE	Winding resistance main	3.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.20 Ohm
Oil quantity	569 / 19.24fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	external		

Compressor Dimensions

Housing

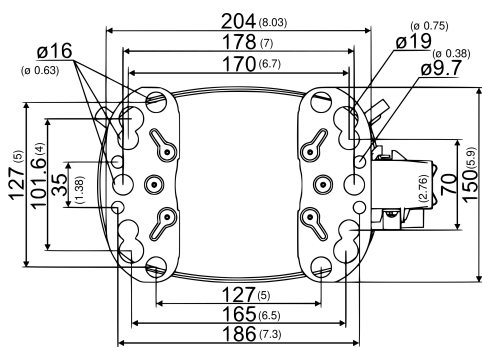
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[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

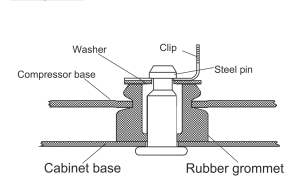
Mounting Accessories



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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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
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	22.3 A
RLA (rated load amps / 1s/ U(N))	3.69 A
Cut in current (U(N))	22.3 A

Ambient/ machine room temperatures minimum /maximum

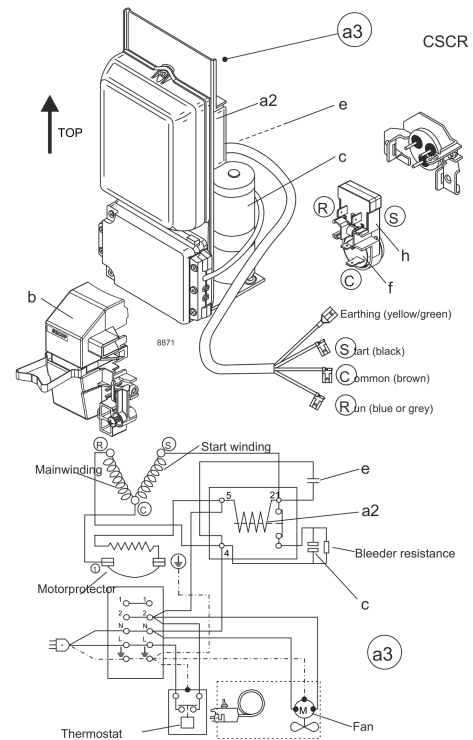
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117-7800

f / h motor protector assy. (T1070/46) 117U8000

b plastic cover + clamp 117U1028

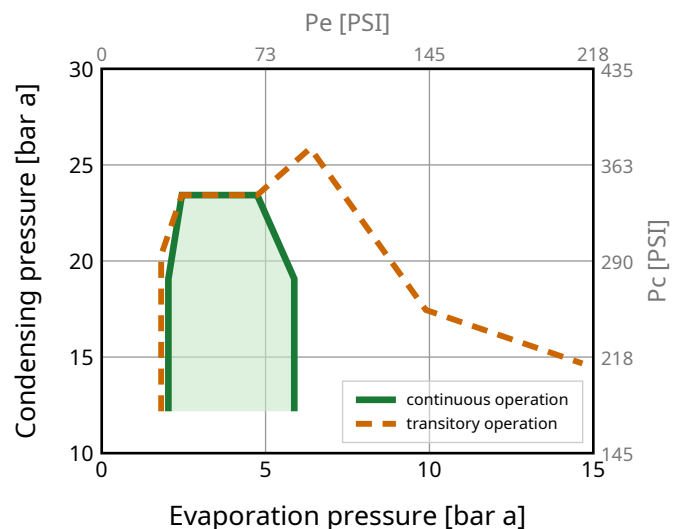
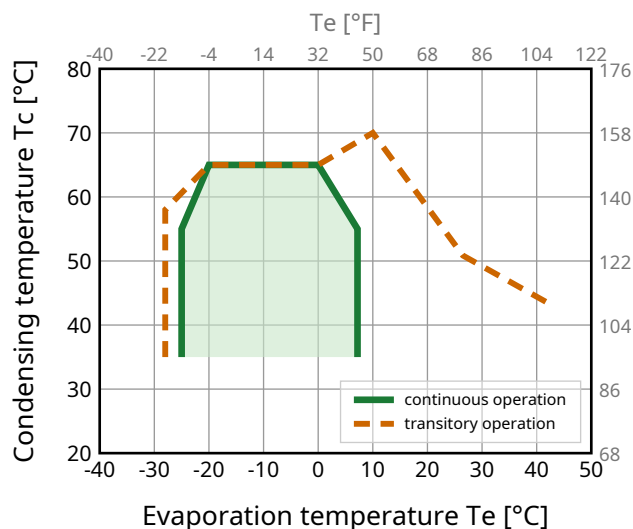
Alternative components

a2 potential relay (RVA 6M3R 339) 117-7425

e run capacitor (10 μ F, 6.3mm) 117-7112

c start capacitor (80 μ F) 117U5373

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 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	1764	6017	1517	2.12	7.22	833	4.06	20.19	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1409	4806	1211	1.77	6.04	796	3.89	17.91	CECOMAF MBP
-10 14	45 113	20 68	45 113	1574	5372	1354	2.17	7.42	724	3.57	19.38	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1667	5687	1433	2.12	7.24	785	3.84	21.67	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1637	5585	1408	2.26	7.71	724	3.57	18.80	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1082	3692	931	1.87	6.38	579	2.96	10.99	opt LBP

Performance Tables

R290, 220 V/50 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]
-25	-13	897	3062	772	1.60	5.47	560	2.88	10.17
-20	-4	1115	3804	959	1.81	6.18	616	3.11	12.69
-15	5	1358	4635	1168	2.02	6.91	671	3.34	15.52
-10	14	1637	5585	1408	2.26	7.71	724	3.57	18.80
-5	23	1960	6688	1686	2.54	8.65	773	3.79	22.64
0	32	2338	7977	2011	2.86	9.76	817	3.98	27.19
5	41	2780	9486	2391	3.25	11.09	855	4.15	32.58
7.2	45	2998	10227	2578	3.45	11.76	870	4.22	35.26

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

-25	-13	739	2522	636	1.25	4.27	591	3.00	9.27
-20	-4	945	3225	813	1.43	4.88	661	3.30	11.90
-15	5	1165	3975	1002	1.60	5.45	730	3.60	14.73
-10	14	1409	4806	1211	1.77	6.04	796	3.89	17.91
-5	23	1686	5751	1450	1.96	6.69	859	4.17	21.57
0	32	2006	6843	1725	2.19	7.46	917	4.43	25.86
5	41	2378	8115	2045	2.45	8.37	969	4.67	30.94
7.2	45	2562	8740	2203	2.59	8.83	989	4.76	33.46