

Model
SCE21MNIX

Sales code:
104H8151

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.90 kg / 32.85lbs
Displacement	21.00 cm3 / 1.28cu.in
Compressors on pallet	48



General – Configurations With SCE21MNIX

–	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240 V/60 Hz
Number of phases	1
Voltage range	195-254 V
Approvals	UL, KC, CB
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Starter kit(relay), cover and cord relief are included and pre-assembled.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

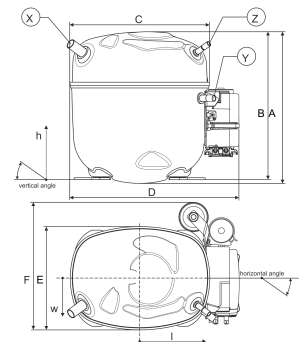
Oil type	POE	Winding resistance main	2.190 Ohm
Oil viscosity	32cSt	Winding resistance aux	5.25 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

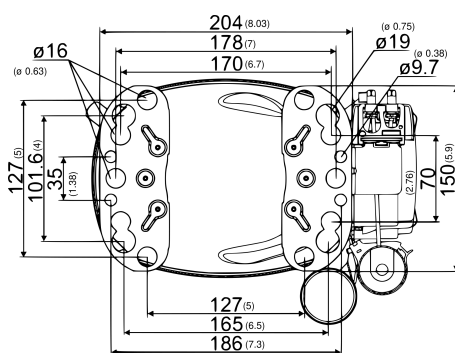
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[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°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in	109.5/94.3/72 / 4.31/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

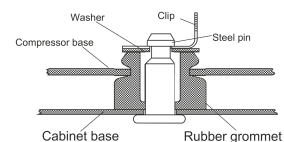
Mounting Accessories



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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Motor configuration	CSCR
Power supply (nominal)	220-240 V/60 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	195-254 V
Starting torque	HST
Approvals	UL, KC, CB
Starting device type	relay
Run capacitor	15 μF
Start capacitor	60 μF
LRA (locked rotor amps / 4s/ U(N))	31.8 A
RLA (rated load amps / 1s/ U(N))	4 A

Ambient/ machine room temperatures minimum /maximum

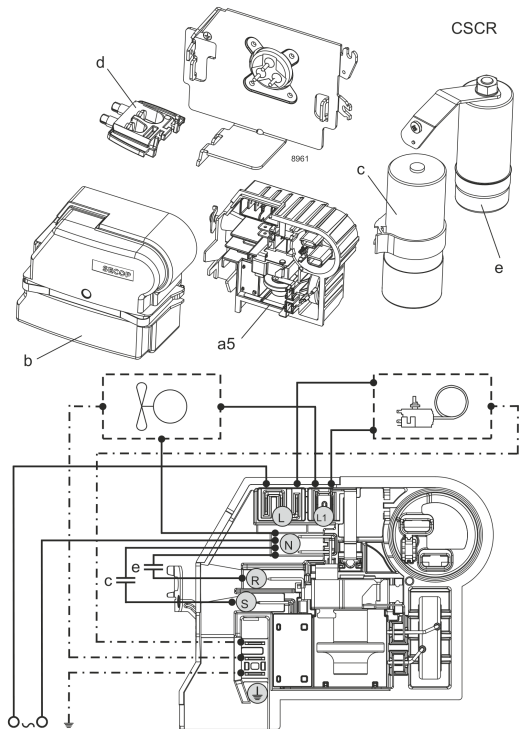
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram


[View full size](#)

Components

a5 SC starter kit 117U8102

b cover terminal board + clamp 117U1036

c start capacitor (60 μ F) 117U5351

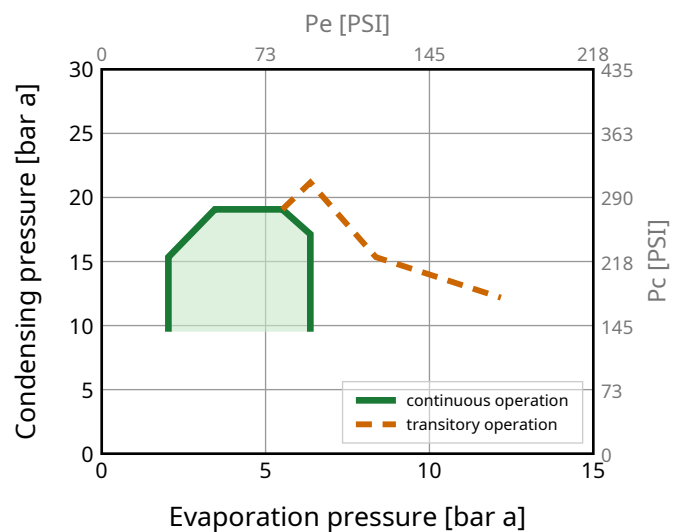
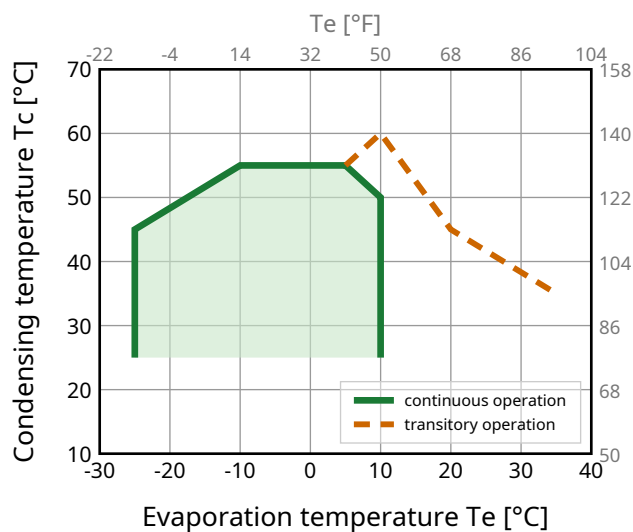
e run capacitor (15 μ F, 6.3mm) 117-7167

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

Operation Pressure Range



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Standard Conditions

R290, 230 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	2071	7065	1781	2.06	7.03	1005	5.38	23.71	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1640	5597	1411	1.73	5.90	949	5.16	20.86	CECOMAF MBP
-10 14	45 113	20 68	45 113	1903	6494	1637	2.17	7.42	875	4.86	23.42	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1994	6804	1715	2.09	7.13	954	5.18	25.93	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1979	6751	1702	2.26	7.71	875	4.86	22.72	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1243	4240	1069	1.83	6.23	680	4.16	12.62	opt LBP

Performance Tables

R290, 230 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]
-25	-13	1018	3472	875	1.56	5.32	653	4.07	11.53
-20	-4	1307	4460	1124	1.79	6.09	732	4.33	14.87
-15	5	1626	5550	1399	2.02	6.88	807	4.60	18.58
-10	14	1979	6751	1702	2.26	7.71	875	4.86	22.72
-5	23	2367	8076	2036	2.53	8.63	936	5.10	27.34
0	32	2794	9534	2403	2.83	9.67	986	5.31	32.49
5	41	3264	11136	2807	3.18	10.86	1025	5.47	38.25
10	50	3778	12892	3250	3.60	12.29	1049	5.57	44.69

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

-25	-13	792	2702	681	1.21	4.14	653	4.06	9.93
-20	-4	1050	3581	903	1.39	4.75	754	4.42	13.21
-15	5	1331	4542	1145	1.56	5.32	853	4.79	16.84
-10	14	1640	5597	1411	1.73	5.90	949	5.16	20.86
-5	23	1980	6755	1703	1.90	6.50	1040	5.53	25.34
0	32	2353	8027	2023	2.10	7.15	1123	5.88	30.34
5	41	2762	9424	2375	2.31	7.87	1197	6.19	35.93
10	50	3211	10957	2762	2.55	8.70	1259	6.47	42.20