

Model
SCE23MNIX

Sales code:
104H8340

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.90 kg / 32.85lbs
Displacement	23.00 cm3 / 1.40cu.in
Compressors on pallet	48



General – Configurations With SCE23MNIX

-	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

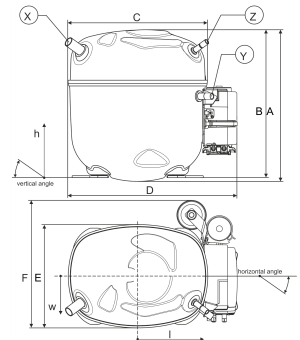
Oil type	POE	Winding resistance main	2.190 Ohm
Oil viscosity	32cSt	Winding resistance aux	5.25 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

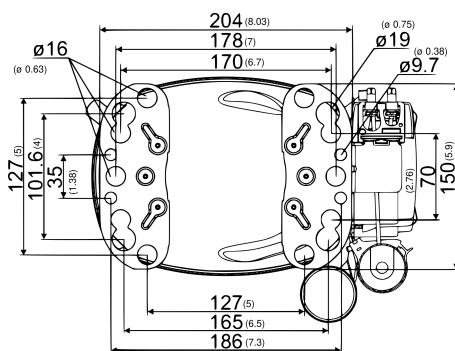
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	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

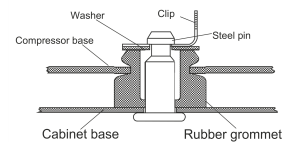
Mounting Accessories



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	80 μF
LRA (locked rotor amps / 4s/ U(N))	31.3 A
RLA (rated load amps / 1s/ U(N))	3.9 A

Ambient/ machine room temperatures minimum /maximum

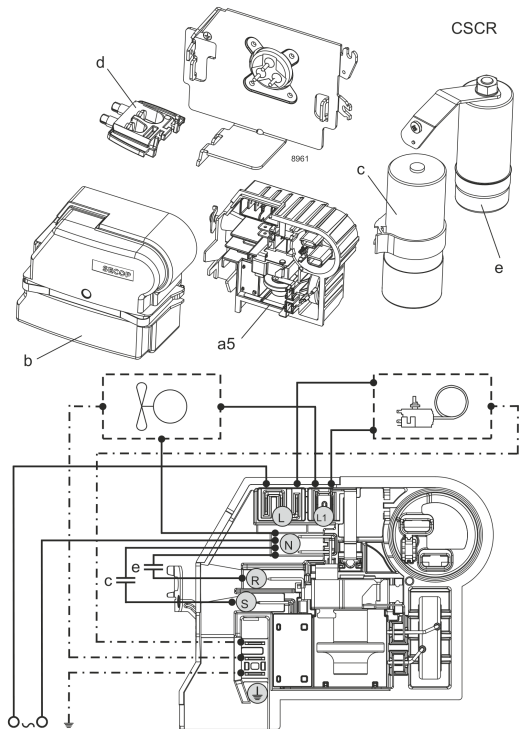
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (80 μ F) 117U5352

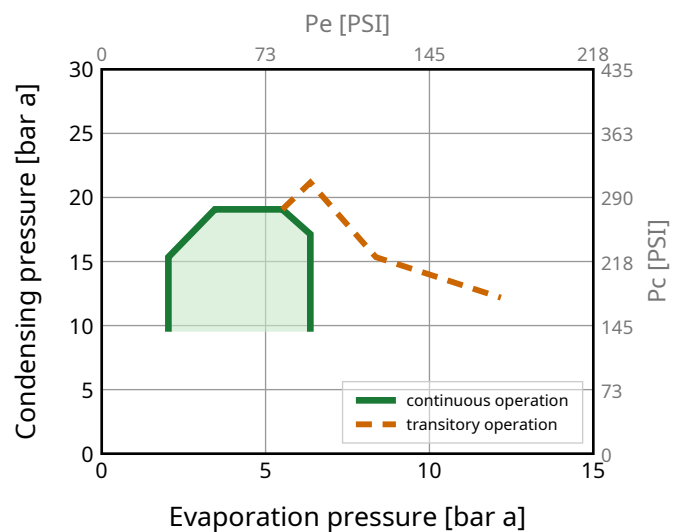
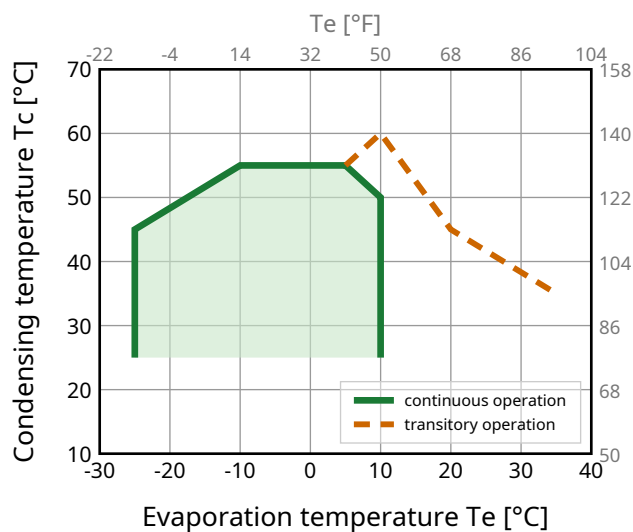
e run capacitor (15 μ F, 6.3mm) 117-7167

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	2235	7626	1922	2.08	7.11	1072	5.07	25.59	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1793	6116	1542	1.75	5.98	1022	4.84	22.80	CECOMAF MBP
-10 14	45 113	20 68	45 113	2001	6826	1721	2.15	7.34	930	4.43	24.62	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	2110	7198	1814	2.09	7.13	1010	4.79	27.43	ARI540 MBP
-10 14	45 113	32 89.6	45 113	2080	7096	1789	2.24	7.63	930	4.43	23.88	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1333	4550	1147	1.83	6.24	729	3.54	13.54	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	1089	3716	937	1.55	5.30	701	3.42	12.35
-20	-4	1400	4778	1204	1.79	6.11	781	3.77	15.93
-15	5	1726	5891	1485	2.01	6.86	858	4.11	19.73
-10	14	2080	7096	1789	2.24	7.63	930	4.43	23.88
-5	23	2473	8437	2127	2.48	8.48	995	4.72	28.56
0	32	2917	9954	2509	2.77	9.46	1052	4.98	33.92
5	41	3426	11691	2947	3.12	10.64	1099	5.19	40.15
10	50	4012	13689	3450	3.54	12.06	1135	5.36	47.45

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

-25	-13	883	3012	759	1.23	4.19	718	3.50	11.07
-20	-4	1181	4030	1016	1.43	4.88	826	3.97	14.87
-15	5	1480	5051	1273	1.60	5.45	927	4.42	18.72
-10	14	1793	6116	1542	1.75	5.98	1022	4.84	22.80
-5	23	2130	7269	1832	1.92	6.56	1108	5.23	27.27
0	32	2506	8551	2155	2.12	7.23	1183	5.58	32.32
5	41	2932	10004	2522	2.35	8.03	1247	5.87	38.14
10	50	3420	11670	2942	2.64	9.00	1297	6.10	44.95