

Model
SCE25MNIX

Sales code:
104H8450

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	500g / 17.64oz
Weight	14.90 kg / 32.85lbs
Displacement	25.00 cm3 / 1.53cu.in
Compressors on pallet	48



General – Configurations With SCE25MNIX

-	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

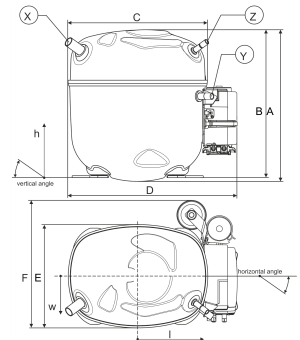
Oil type	POE	Winding resistance main	2.190 Ohm
Oil viscosity	32cSt	Winding resistance aux	5.25 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

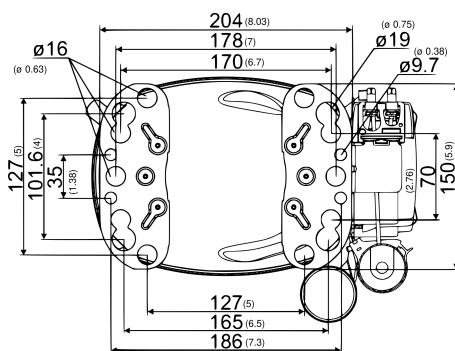
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



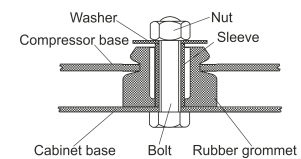
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in	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

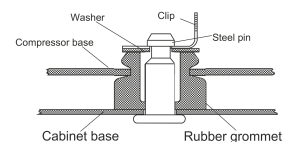


Dimensions in mm [in]

Bolt joint



Snap-on



	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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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))	32 A
RLA (rated load amps / 1s/ U(N))	3.9 A

Ambient/ machine room temperatures minimum /maximum

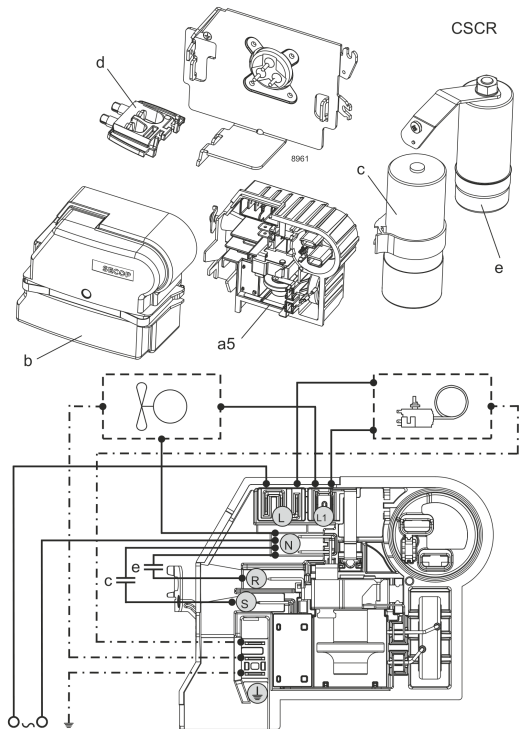
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

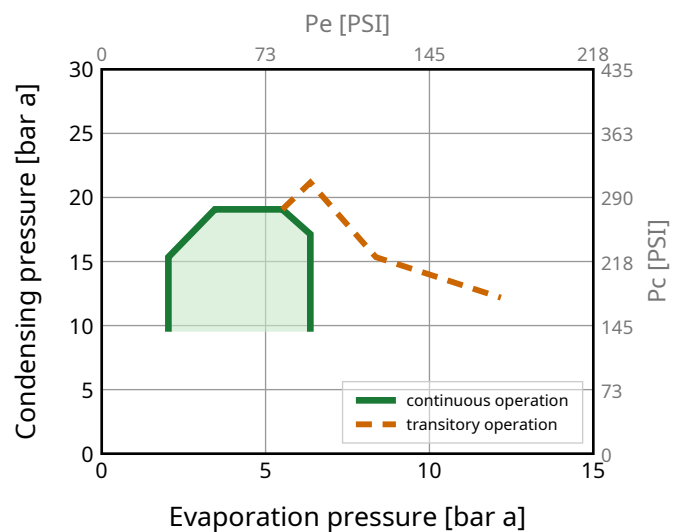
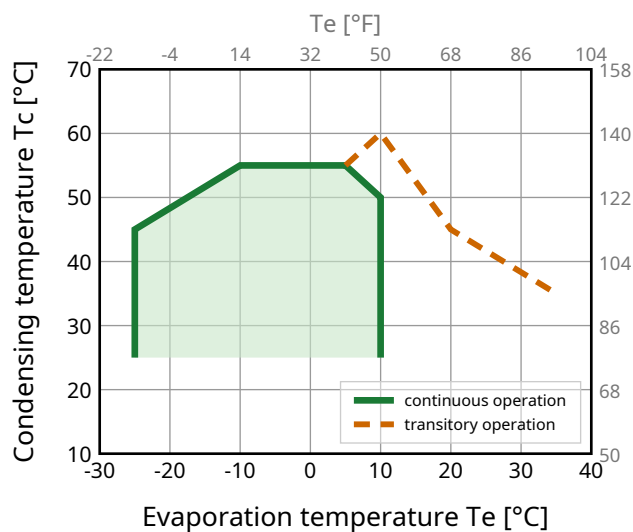
e run capacitor (15 μ F, 6.3mm) 117-7167

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	2443	8335	2101	2.05	7.00	1191	5.61	27.97	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1920	6552	1652	1.70	5.80	1130	5.33	24.42	CECOMAF MBP
-10 14	45 113	20 68	45 113	2246	7663	1932	2.17	7.39	1038	4.91	27.64	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	2357	8042	2027	2.11	7.19	1118	5.28	30.65	ARI540 MBP
-10 14	45 113	32 89.6	45 113	2335	7967	2008	2.25	7.68	1038	4.91	26.81	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1403	4788	1207	1.74	5.93	808	3.88	14.25	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	1152	3931	991	1.47	5.01	784	3.78	13.06
-20	-4	1488	5078	1280	1.73	5.91	858	4.11	16.93
-15	5	1893	6459	1628	2.00	6.83	946	4.50	21.63
-10	14	2335	7967	2008	2.25	7.68	1038	4.91	26.81
-5	23	2782	9494	2393	2.47	8.43	1126	5.32	32.14
0	32	3204	10932	2755	2.66	9.08	1204	5.67	37.25
5	41	3568	12173	3068	2.83	9.64	1263	5.94	41.81
10	50	3842	13109	3304	2.97	10.12	1295	6.09	45.44

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

-25	-13	973	3321	837	1.17	4.01	829	3.97	12.20
-20	-4	1207	4118	1038	1.32	4.50	916	4.36	15.19
-15	5	1533	5231	1319	1.50	5.14	1019	4.82	19.39
-10	14	1920	6552	1652	1.70	5.80	1130	5.33	24.42
-5	23	2337	7974	2010	1.88	6.43	1241	5.84	29.91
0	32	2751	9386	2366	2.05	6.98	1344	6.32	35.48
5	41	3131	10684	2693	2.19	7.47	1431	6.73	40.73
10	50	3446	11758	2964	2.31	7.86	1495	7.03	45.28