

Model
SCE23MNDX

Sales code:
104H8300

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 SCE23MNDX

-	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, 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

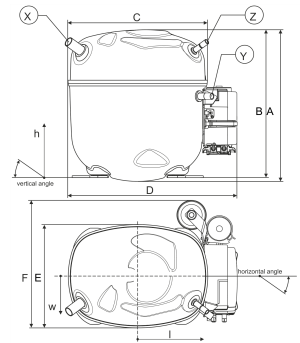
Oil type	POE	Winding resistance main	2.8 Ohm
Oil viscosity	32cSt	Winding resistance aux	10.9 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

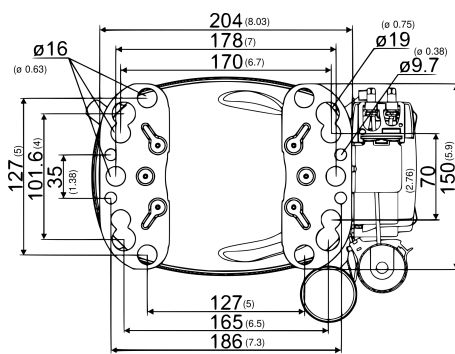
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)

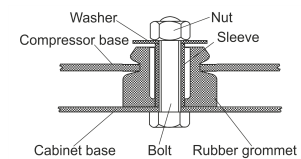


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in	109.5/94.3/72 / 4.31/3.71/2.83in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

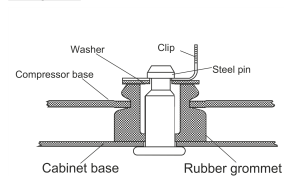
Mounting Accessories



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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Configuration 1

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Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, CB
Starting device type	relay
Run capacitor	10 μF
Start capacitor	60 μF
LRA (locked rotor amps / 4s/ U(N))	27.1 A
RLA (rated load amps / 1s/ U(N))	4.7 A
Cut in current (U(N))	27.1 A

Ambient/ machine room temperatures minimum /maximum

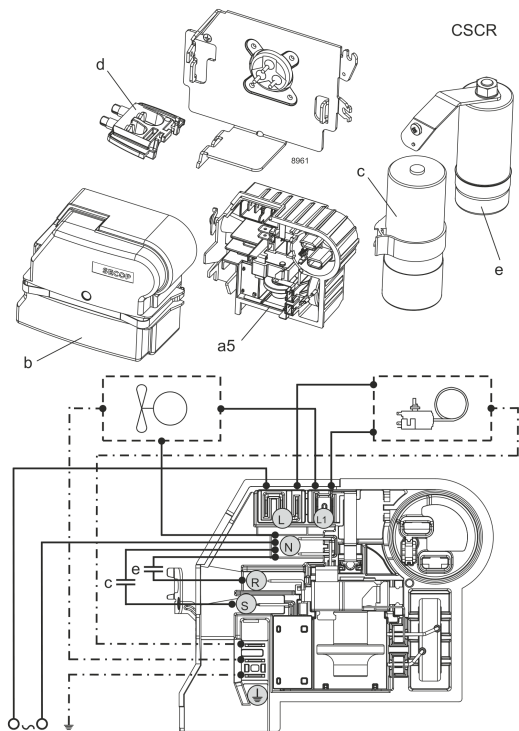
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U8100

c start capacitor (60 μ F) 117U5351

b cover terminal board + clamp 117U1036

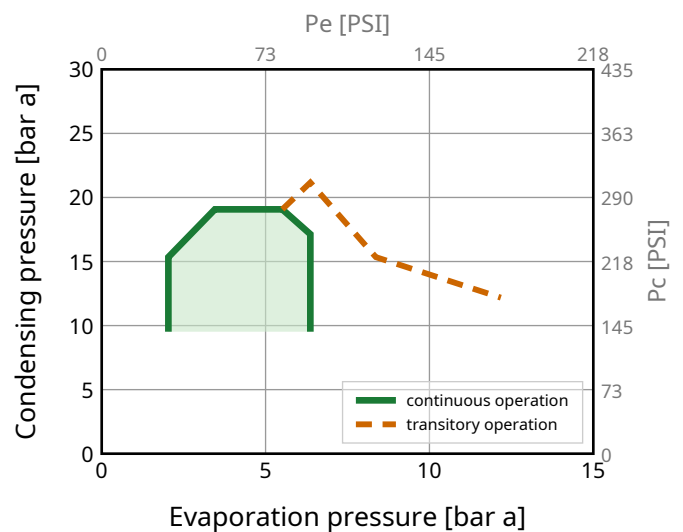
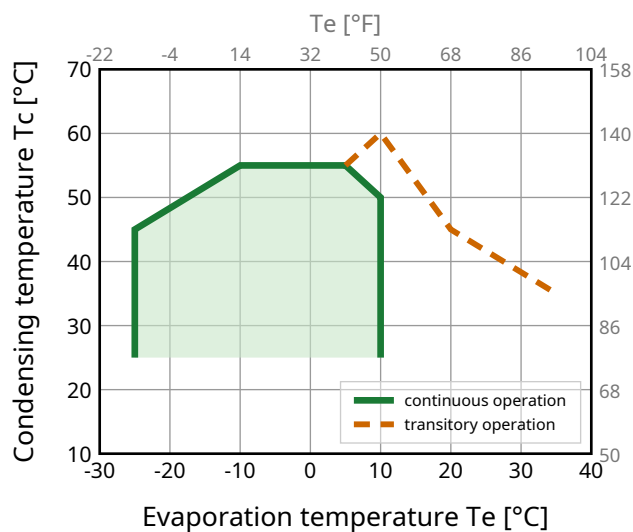
e run cap (10 μ F, 6.3mm,c.length 280mm) 117-7166

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

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	1911	6521	1644	2.09	7.13	915	4.34	21.88	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1523	5196	1310	1.74	5.95	873	4.16	19.37	CECOMAF MBP
-10 14	45 113	20 68	45 113	1703	5811	1465	2.14	7.29	797	3.83	20.96	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1804	6156	1552	2.09	7.13	863	4.12	23.46	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1770	6041	1523	2.22	7.58	797	3.83	20.33	opt MBP 1
-25 -13	45 113	32 89.6	45 113	971	3314	835	1.59	5.44	609	3.04	11.01	opt MBP 2

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	971	3314	835	1.59	5.44	609	3.04	11.01
-20	-4	1208	4120	1039	1.79	6.11	674	3.31	13.74
-15	5	1471	5019	1265	2.00	6.81	738	3.58	16.81
-10	14	1770	6041	1523	2.22	7.58	797	3.83	20.33
-5	23	2115	7216	1819	2.49	8.49	850	4.06	24.43
0	32	2513	8575	2161	2.81	9.58	895	4.26	29.22
5	41	2974	10148	2558	3.20	10.92	929	4.41	34.86
10	50	3507	11967	3016	3.69	12.58	951	4.51	41.48

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

-25	-13	799	2725	687	1.25	4.25	641	3.17	10.01
-20	-4	1017	3470	875	1.41	4.82	719	3.50	12.80
-15	5	1255	4283	1080	1.57	5.37	797	3.83	15.88
-10	14	1523	5196	1310	1.74	5.95	873	4.16	19.37
-5	23	1828	6239	1572	1.94	6.61	944	4.47	23.40
0	32	2181	7442	1876	2.16	7.38	1008	4.76	28.13
5	41	2590	8836	2227	2.44	8.31	1064	5.01	33.69
10	50	3064	10453	2635	2.77	9.44	1108	5.21	40.26