

Model
SCE25MNDX

Sales code:
104H8400

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 SCE25MNDX

-	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

Model
SCE25MNDX

Sales code:
104H8400

Compressor Design

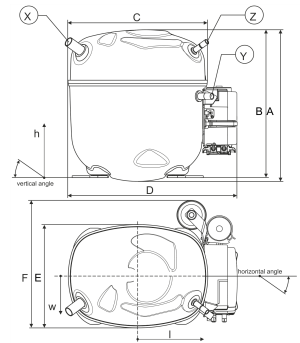
Oil type	POE	Winding resistance main	2.760 Ohm
Oil viscosity	32cSt	Winding resistance aux	10.88 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	3,150 cm³ / 106.51fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

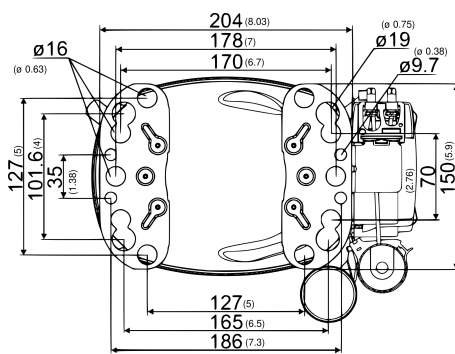
A Height	236.4mm / 9.31in
B Height	230.6mm / 9.08in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[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

Model

SCE25MNDX

Configuration 1

Sales code:

104H8400

Configuration

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	15 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

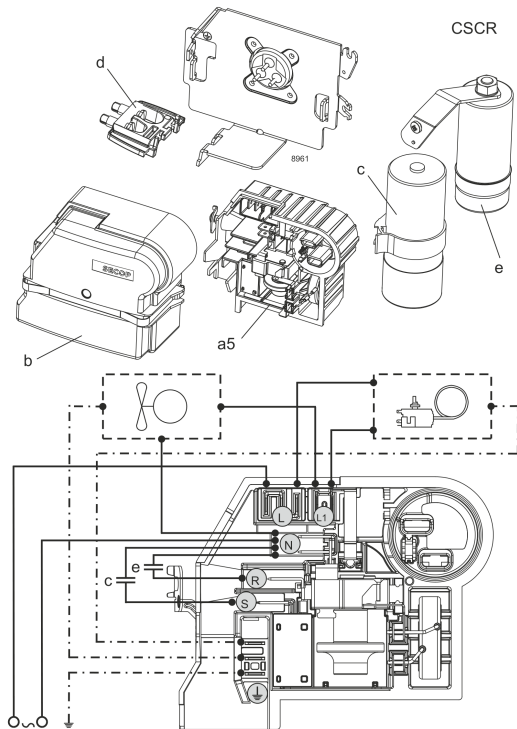
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

b cover terminal board + clamp 117U1036

c start capacitor (60 μ F) 117U5351

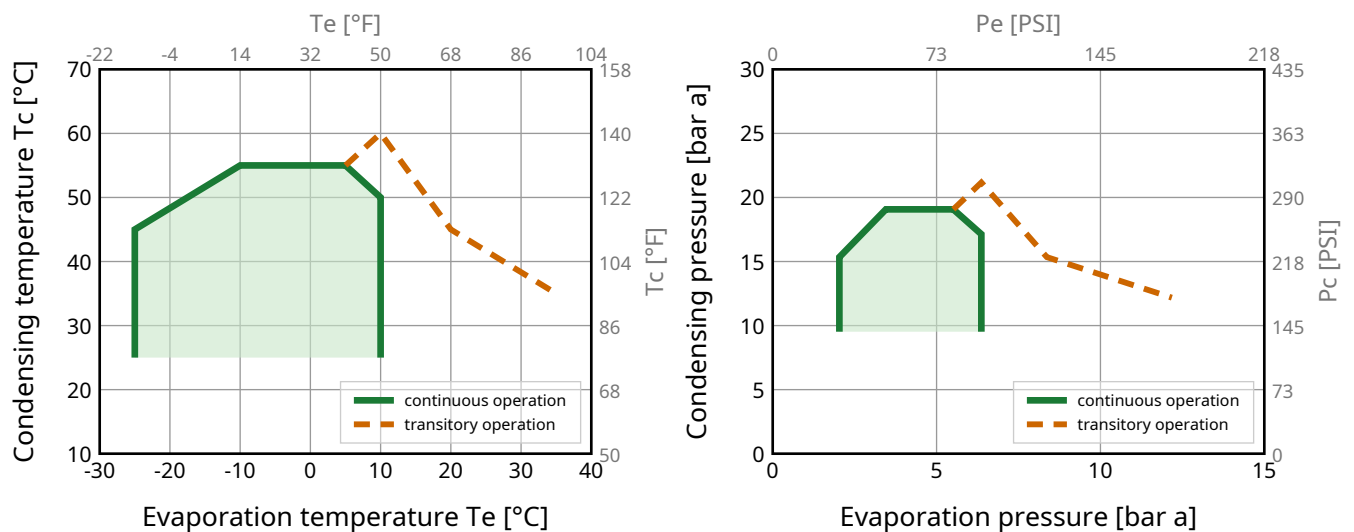
e run capacitor (15 μ F, 6.3mm) 117-7167

e1 retaining clamp 117-0313

screw M4x8mm 117-0301

d cord relief 103N1007

Operation Pressure Range



Model

SCE25MNDX

Configuration 1

Sales code:

104H8400

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	2079	7094	1788	2.01	6.85	1036	4.88	23.80	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1660	5663	1427	1.67	5.71	992	4.69	21.11	CECOMAF MBP
-10 14	45 113	20 68	45 113	1840	6280	1583	2.09	7.12	882	4.20	22.65	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1957	6678	1683	2.03	6.93	964	4.56	25.45	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1913	6529	1646	2.17	7.40	882	4.20	21.97	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	1259	4297	1083	1.78	6.09	706	3.44	12.79	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	1044	3561	898	1.53	5.23	681	3.34	11.83
-20	-4	1299	4432	1117	1.73	5.89	752	3.64	14.78
-15	5	1585	5408	1363	1.93	6.60	820	3.93	18.11
-10	14	1913	6529	1646	2.17	7.40	882	4.20	21.97
-5	23	2295	7830	1974	2.45	8.35	938	4.45	26.50
0	32	2740	9351	2357	2.78	9.48	987	4.67	31.87
5	41	3261	11128	2805	3.17	10.83	1028	4.85	38.22
10	50	3869	13200	3327	3.65	12.47	1059	4.99	45.75

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

-25	-13	868	2963	747	1.20	4.10	722	3.51	10.89
-20	-4	1111	3791	956	1.36	4.64	818	3.92	13.99
-15	5	1371	4679	1179	1.51	5.15	908	4.32	17.34
-10	14	1660	5663	1427	1.67	5.71	992	4.69	21.11
-5	23	1988	6782	1710	1.86	6.35	1068	5.03	25.44
0	32	2366	8074	2035	2.08	7.11	1136	5.34	30.52
5	41	2807	9577	2414	2.35	8.02	1194	5.61	36.51
10	50	3320	11329	2855	2.68	9.13	1241	5.83	43.63