

Model
SCE21MNDX

Sales code:
104H6160

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	13.70 kg / 30.20lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	64



General - Configurations With SCE21MNDX

-	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
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

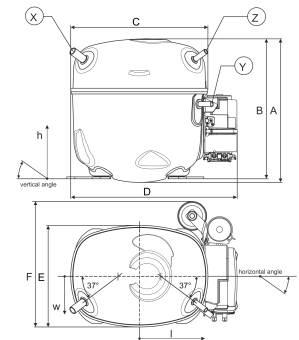
Oil type	POE	Winding resistance main	4.5 Ohm
Oil viscosity	32cSt	Winding resistance aux	15.2 Ohm
Oil quantity	429 / 14.51fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,330 cm³ / 44.97fl.oz	Max. discharge temp.	140°C / 284°F
Motor protection	internal		

Compressor Dimensions

Housing

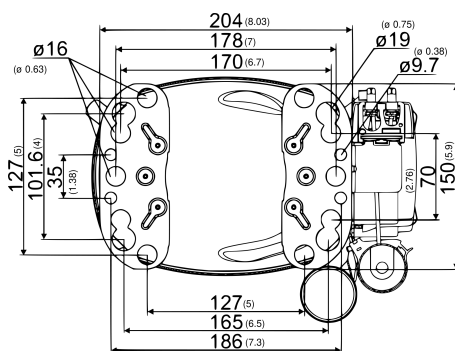
A Height	228mm / 8.98in
B Height	222mm / 8.74in
C Length shell	217mm / 8.54in
D Length w. cover	263.4mm / 10.37in
E Width	161.1mm / 6.34in

[Find 3D Model here](#)



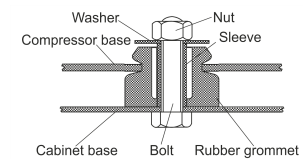
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-104/202/54 / -4.09/7.95/2.13in	114/118/63 / 4.49/4.65/2.48in	106/202/53 / 4.17/7.95/2.09in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

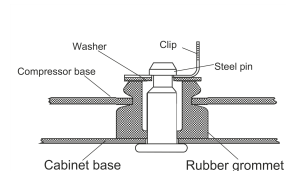


Dimensions in mm [in]

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

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
Starting device type	relay
Run capacitor	15 μ F
Start capacitor	100 μ F
RLA (rated load amps / 1s/ U(N))	3 A

Ambient/ machine room temperatures minimum /maximum

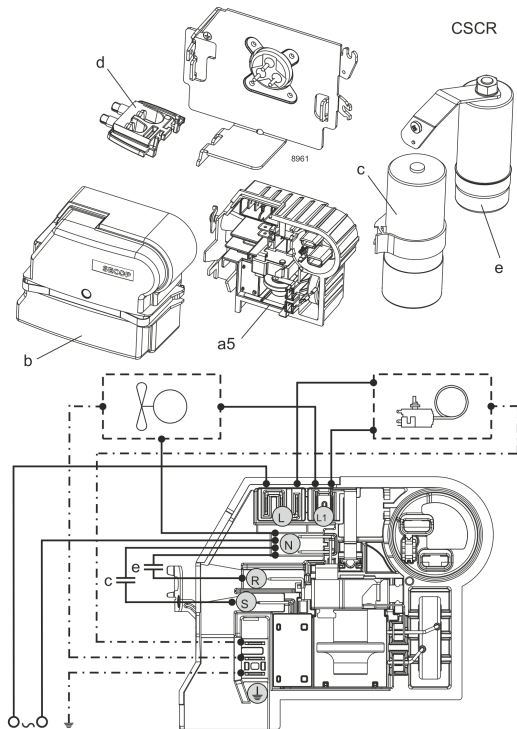
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (100 μ F) 117U5354

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

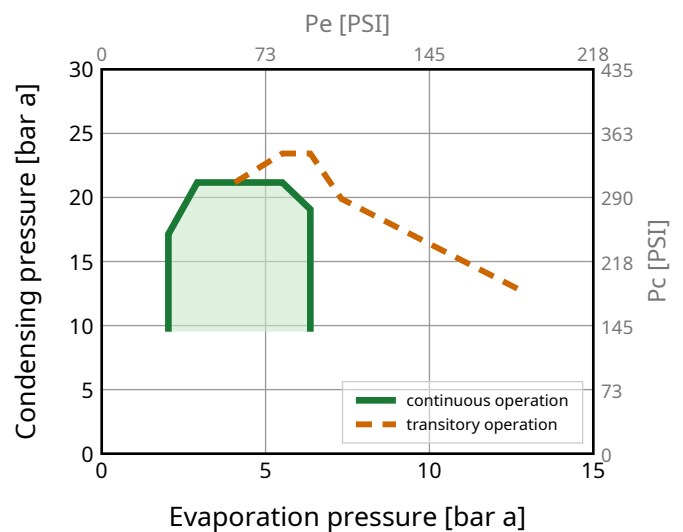
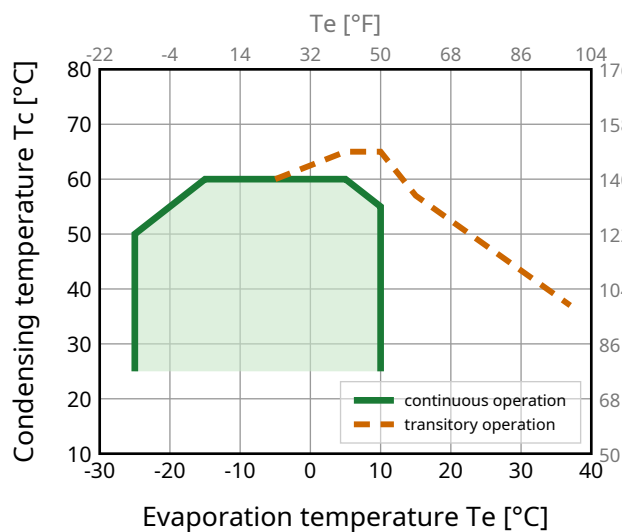
b cover terminal board + clamp 117U1036

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	1795	6123	1543	2.13	7.28	841	4.08	20.55	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1425	4861	1225	1.78	6.06	802	3.90	18.12	CECOMAF MBP
-10 14	45 113	20 68	45 113	1597	5450	1374	2.17	7.42	735	3.57	19.66	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1694	5780	1457	2.12	7.25	797	3.88	22.02	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1660	5666	1428	2.26	7.71	735	3.57	19.07	opt MBP 1
-25 -13	45 113	32 89.6	45 113	869	2964	747	1.51	5.16	575	2.83	9.85	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	869	2964	747	1.51	5.16	575	2.83	9.85
-20	-4	1100	3751	946	1.75	5.96	629	3.08	12.51
-15	5	1363	4650	1172	1.99	6.80	684	3.33	15.57
-10	14	1660	5666	1428	2.26	7.71	735	3.57	19.07
-5	23	1994	6805	1715	2.56	8.72	780	3.79	23.04
0	32	2366	8074	2035	2.90	9.88	817	3.97	27.52
5	41	2778	9479	2389	3.30	11.26	842	4.08	32.56
10	50	3232	11026	2779	3.79	12.92	853	4.12	38.22

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

-25	-13	721	2460	620	1.21	4.12	597	2.94	9.04
-20	-4	927	3163	797	1.39	4.76	665	3.25	11.67
-15	5	1161	3961	998	1.58	5.39	734	3.57	14.68
-10	14	1425	4861	1225	1.78	6.06	802	3.90	18.12
-5	23	1720	5870	1479	1.99	6.78	866	4.21	22.02
0	32	2050	6993	1763	2.22	7.57	923	4.48	26.43
5	41	2414	8238	2076	2.49	8.48	971	4.71	31.41
10	50	2816	9610	2422	2.80	9.55	1006	4.86	37.01