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

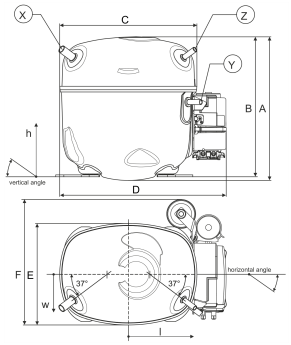
Oil type	**POE**	Winding resistance main	**4.5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**15.2 Ohm**
Oil quantity	**429 cm3 / 14.51fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,330 cm3 / 44.97fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

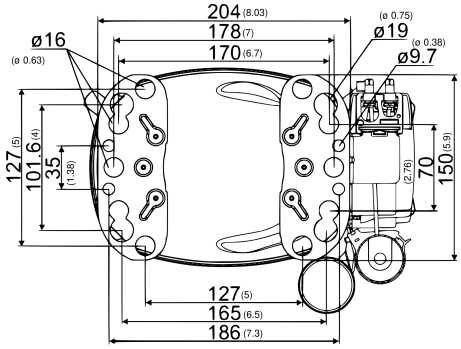
A Height	**228mm / 8.98in**
B Height	**222mm / 8.74in**
C Length shell	**217mm / 8.54in**
D Length w. cover	**263.4mm / 10.37in**
E Width	**161.1mm / 6.34in**

Find 3D Model here



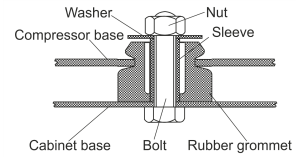
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-105/202/54 / -4.13/7.95/2.13in	114/118/63 / 4.49/4.65/2.48in	105/202/53 / 4.13/7.95/2.09in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

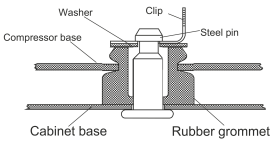


Dimensions in mm [in]

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

Model
SCE21MNDX Configuration 1

Sales code:
104H6160

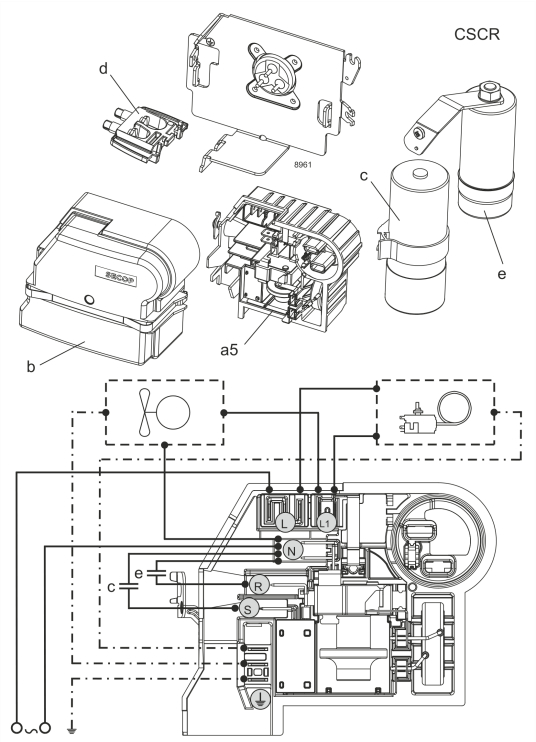
Configuration

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 µF**
Start capacitor	**100 µF**
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

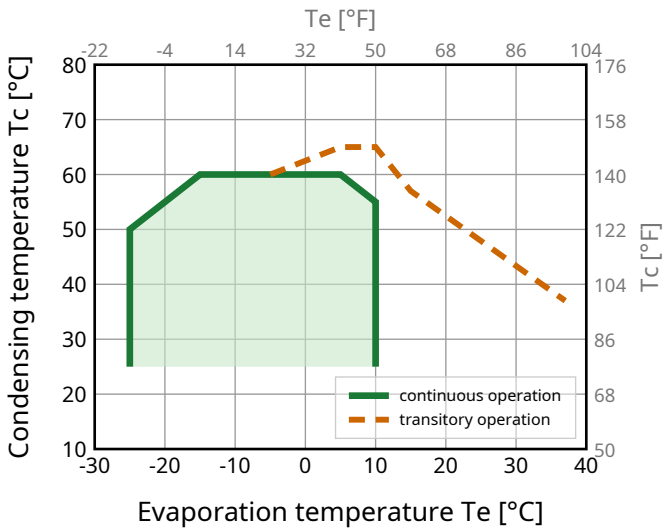
Electrical Accessories / Wiring Diagram

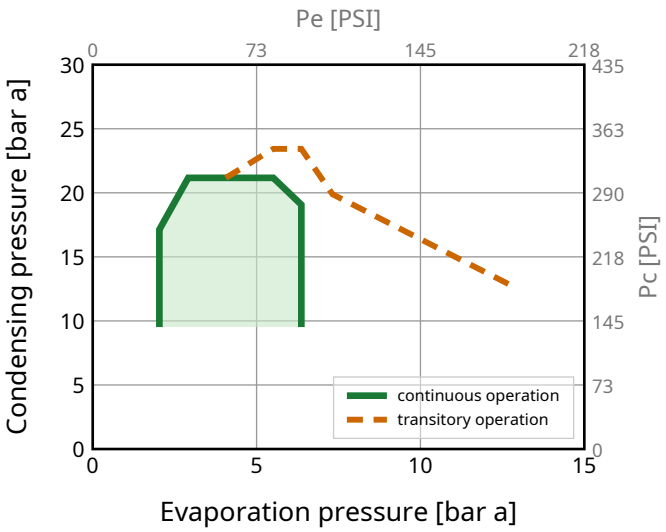


View full size

Components (Starter kit + cover + cord relief: pre-assembled)
a5 SC starter kit 117U8100
c start capacitor (100µF) 117U5354
e run capacitor (15µF, 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





Model Sales code:

SCE21MNDX Configuration 1 **104H6160**

Standard Conditions

R290, 220 V/50 Hz, CSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	ṁ
[°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