Single
Packs

SECOP

Single Pack SCE25MNDX 220-240V 50Hz CSCR

Single pack code number: **195B4783**

Position	Title	Code	Amount
1	Compressor SCE25MNDX	104H8400	1
2	Run Capacitor (15µF 450V, 6.3mm)	117-7167	1
3	Starting capacitor (60µF 260V, 6.3mm)	117U5351	1
4	Run capacitor bracket	117-0313	1
5	Screw for bracket M4x8mm	117-0301	1
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
7	SCE starting device	117U8100	1
8	Cover with clamp	117U1036	1
9	Cord relief	103N1007	1

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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

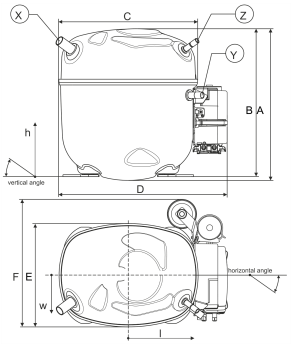
Oil type	**POE**	Winding resistance main	**2.8 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**10.9 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**3,150 cm3 / 106.51fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

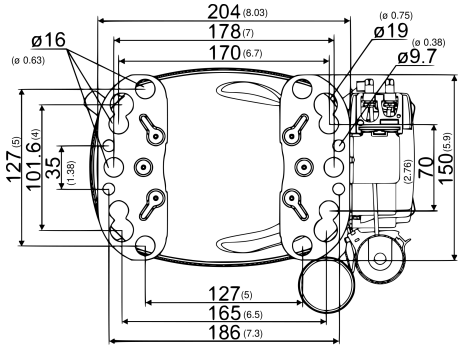
A Height	**236.4mm / 9.31in**
B Height	**230.6mm / 9.08in**
C Length shell	**217mm / 8.54in**
D Length w. cover	**263.4mm / 10.37in**
E Width	**161.1mm / 6.34in**

Find 3D Model here



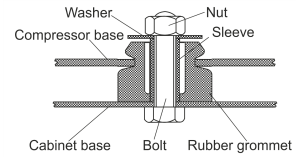
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 12.81–12.99 / 0.50–0.51in	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-110.5/211.8/56.7 / -4.35/8.34/2.23in	115.5/127/81 / 4.55/5.00/3.19in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

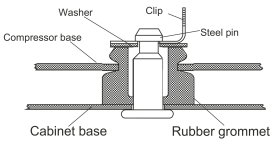


Dimensions in mm [in]

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
SCE25MNDX Configuration 1

Sales code:
104H8400

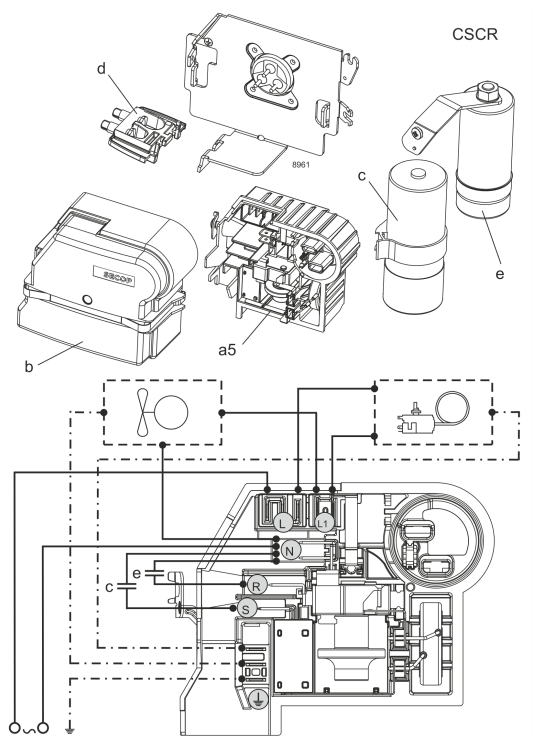
Configuration

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

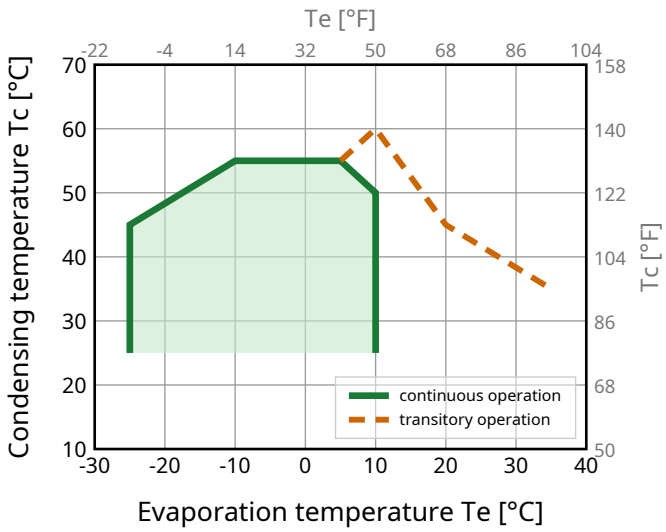
Electrical Accessories / Wiring Diagram

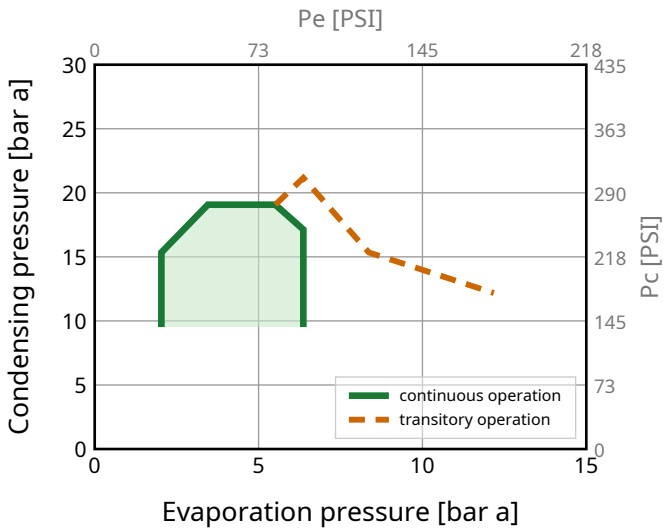


View full size

Components (Starter kit + cover + cord relief: pre-assembled)
a5 SC starter kit 117U8100
b cover terminal board + clamp 117U1036
c start capacitor (60µF) 117U5351
e run capacitor (15µF, 6.3mm) 117-7167
e1 retaining clamp 117-0313
screw M4x8mm 117-0301
d cord relief 103N1007

Operation Pressure Range





Model Sales code:

SCE25MNDX Configuration 1 **104H8400**

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	**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 1**
-25 -13	45 113	32 89.6	45 113	**1044**	3561	898	**1.53**	5.23	681	3.34	11.83	**opt MBP 2**

Performance Tables

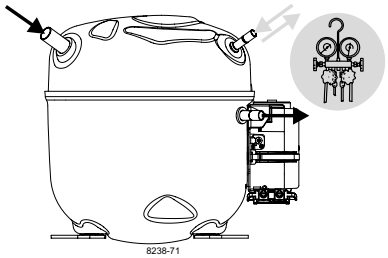
R290, 220 V/50 Hz, CSCR, fan 3m/s

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	**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



SCE & SCE Plus Compressors

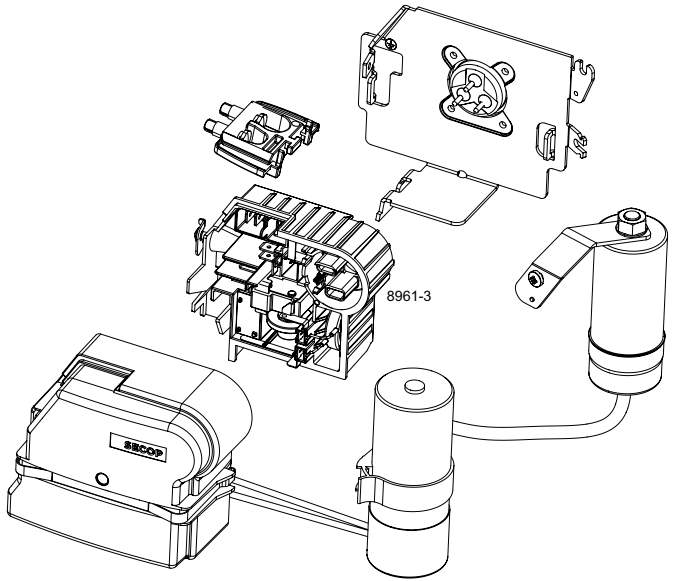
Optimized Electrical CSCR System

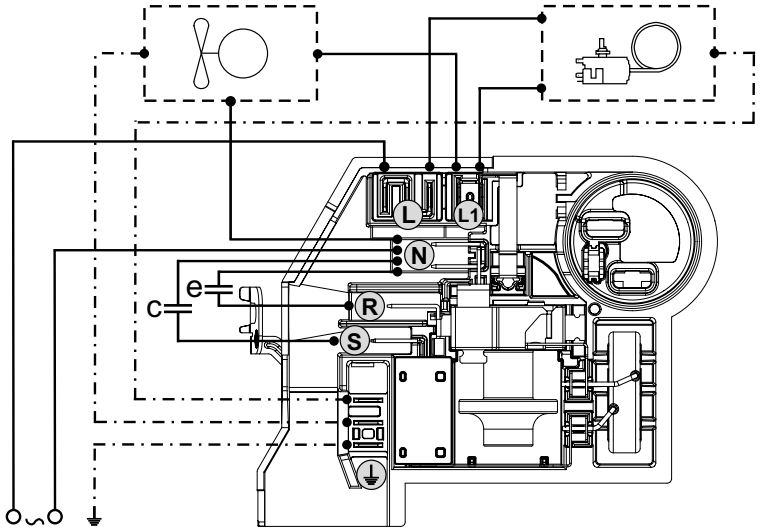
SECOP

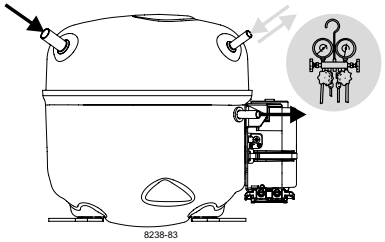
Keep electrical equipment clear from oil, chemicals, and water

When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

CSCR







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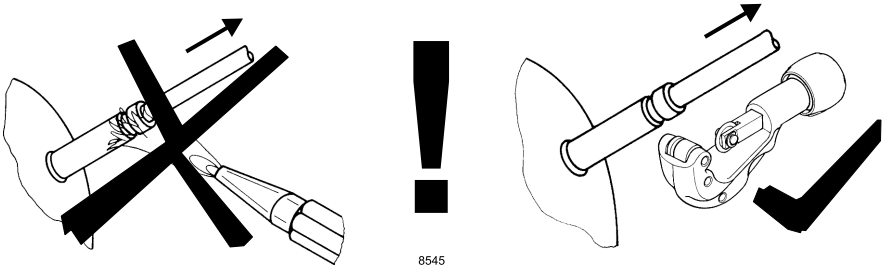
Service/Repair – R290, R600a, R170, R1270, R1234yf

(applies to all flammable refrigerants)



Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**