Single
Packs

Single Pack SCE18MNX 208-230V 60Hz CSIR

Single pack code number: **195B4668**

Position	Title	Code	Amount
1	Compressor SCE18MNX	104H8889	1
2	Starting capacitor (60µF 260V, 6.3mm)	117U5076	1
3	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
4	Starting relay (overload protector T0715/46)	117U7412	1
5	Cover	117U1021	1

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Model
SCE18MNX

Sales code:
104H8889

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**450g / 15.87oz**
Weight	**14.20 kg / 31.31lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**80**

General – Configurations With SCE18MNX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-253 V
Approvals	UL, KC, CB
Starting torque	HST
Refrigerant	R290
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Protector, relay and cover are included and pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor

Model
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Compressor Design

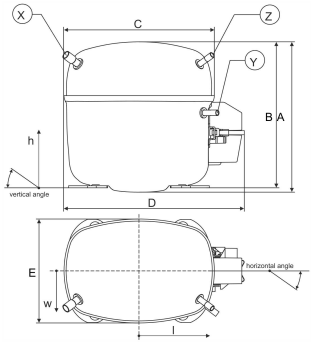
Oil type	**POE**	Winding resistance main	**2.6 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**21.2 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**external**		

Compressor Dimensions

Housing

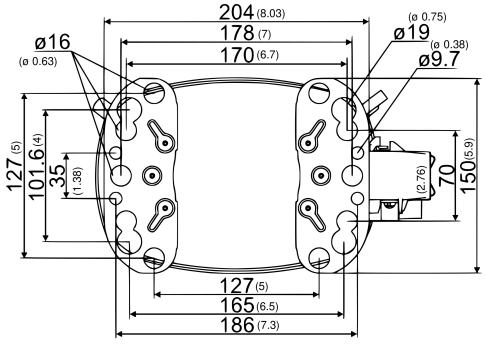
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



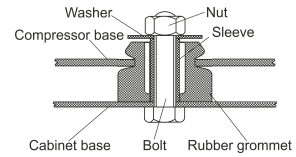
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

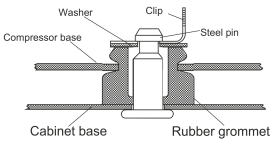


Dimensions in mm [in]

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
SCE18MNX Configuration 1

Sales code:
104H8889

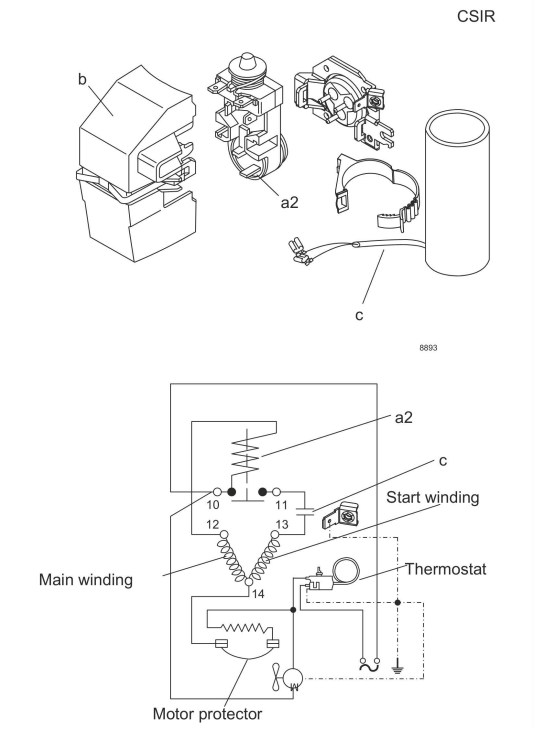
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**208-230 V/60 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**187-253 V**
Starting torque	**HST**
Approvals	**UL, KC, CB**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**60 µF**
LRA (locked rotor amps / 4s/ U(N))	**27.7 A**
RLA (rated load amps / 1s/ U(N))	**5.2 A**
Cut in current (U(N))	**27.7 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

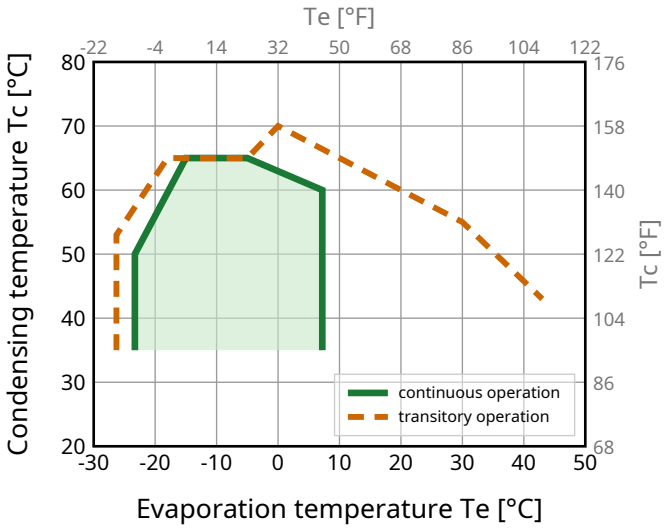
System Cooling
fan 3m/s

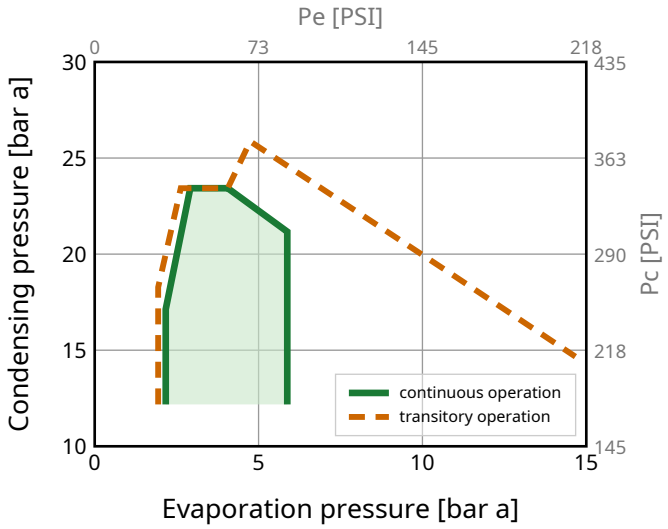
Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)
a2 assy. relay + ext. protector (T0715) 117U7412
c start capacitor (60µF, 6.3mm, 82kOhm) 117U5076
b plastic cover + clamp 117U1021

Operation Pressure Range





Model
SCE18MNX Configuration 1

Sales code:
104H8889

Standard Conditions

R290, 230 V/60 Hz, CSIR, 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	**1796**	6129	1545	**1.97**	6.71	913	5.07	20.57	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1420**	4845	1221	**1.64**	5.58	868	4.92	18.06	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1591**	5428	1368	**2.02**	6.91	786	4.52	19.58	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1693**	5778	1456	**1.96**	6.70	862	4.81	22.02	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1654**	5643	1422	**2.10**	7.18	786	4.52	18.99	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**849**	2897	730	**1.46**	4.98	581	3.89	9.62	**opt MBP 2**

Performance Tables

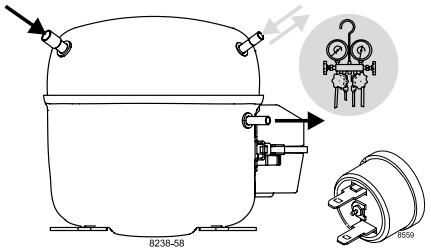
R290, 230 V/60 Hz, CSIR, fan 3m/s

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]
-23.3	-10	**930**	3172	800	**1.53**	5.24	606	3.96	10.55
-20	-4	**1093**	3730	940	**1.67**	5.70	654	4.10	12.44
-15	5	**1360**	4640	1170	**1.88**	6.41	723	4.31	15.54
-10	14	**1654**	5643	1422	**2.10**	7.18	786	4.52	18.99
-5	23	**1980**	6756	1703	**2.36**	8.06	838	4.69	22.87
0	32	**2343**	7996	2015	**2.68**	9.13	875	4.83	27.25
5	41	**2748**	9377	2363	**3.07**	10.48	894	4.91	32.21
7.2	45	**2941**	10033	2529	**3.28**	11.20	896	4.92	34.59

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

-23.3	-10	**756**	2578	650	**1.17**	3.99	646	4.19	9.48
-20	-4	**905**	3087	778	**1.29**	4.39	703	4.37	11.39
-15	5	**1149**	3921	988	**1.46**	4.98	788	4.65	14.54
-10	14	**1420**	4845	1221	**1.64**	5.58	868	4.92	18.06
-5	23	**1722**	5876	1481	**1.83**	6.24	941	5.17	22.04
0	32	**2060**	7029	1772	**2.06**	7.02	1002	5.39	26.57
5	41	**2439**	8321	2097	**2.33**	7.95	1047	5.55	31.72
7.2	45	**2619**	8937	2253	**2.47**	8.42	1061	5.60	34.22



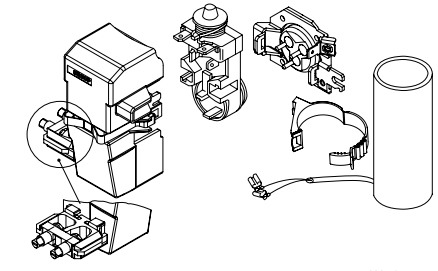
SCE Compressors
(External Protector)

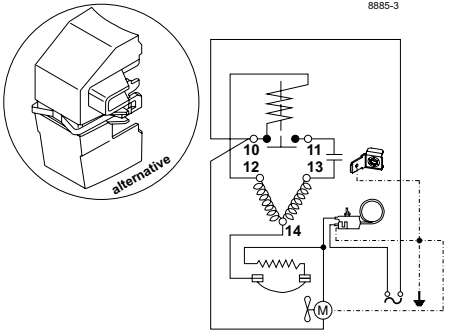
SECOP

Keep electrical equipment clear from <u>oil, chemicals, and water</u>

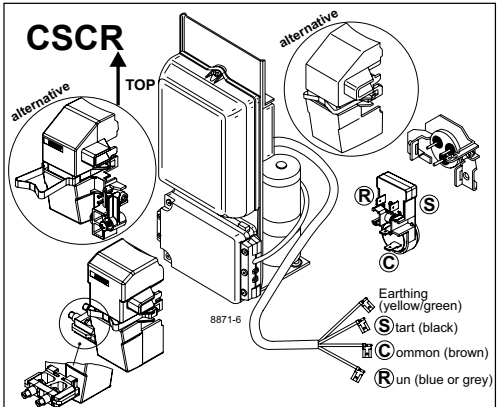
When operated with a <u>flammable refrigerant,</u> only <u>spark-proof starting equipment</u> is allowed.

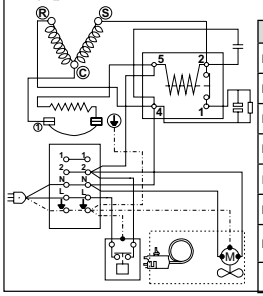
CSIR





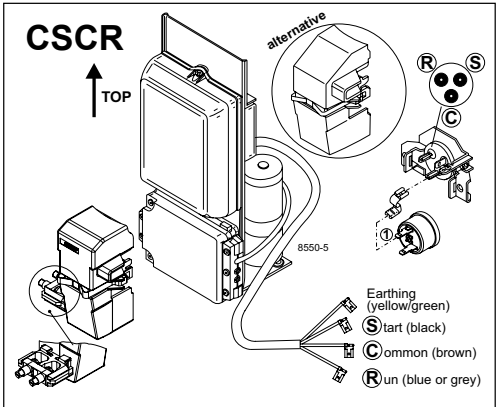
CSCR

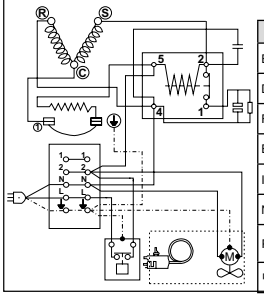




	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

CSCR





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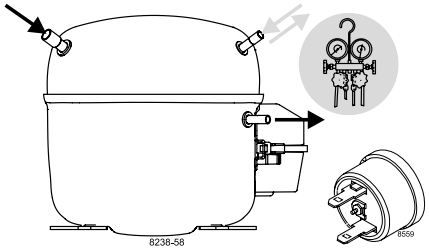

SCE Compressors
(External Protector)

SECOP

Keep electrical equipment clear from oil, chemicals, and water

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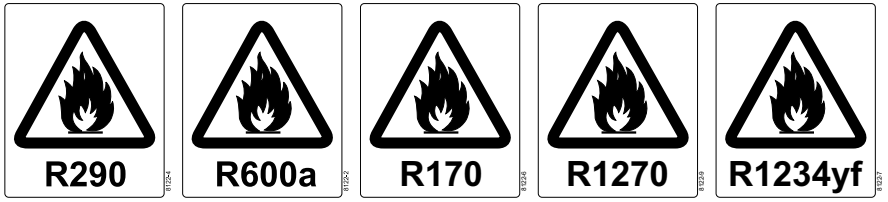
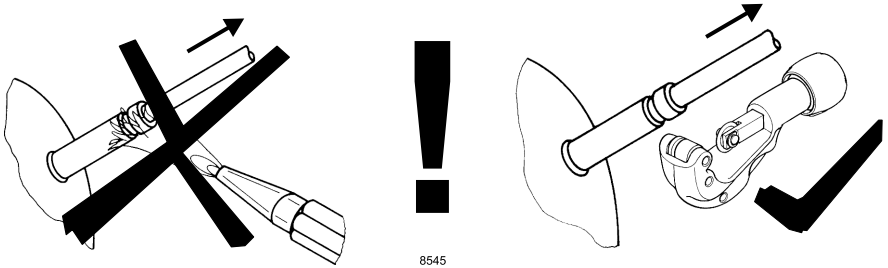
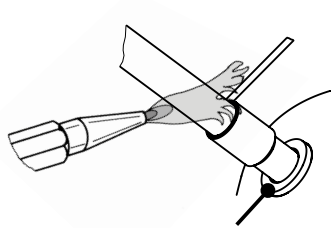
Service/Repair – R290, R600a, R170, R1270, R1234yf
(applies to all flammable refrigerants)





Brazing on Suction Connectors (Direct Intake)



! max. 350°C/662°F !
at socket

brazing solder: phosphor (LP7) or silver

Refer to Product Bulletin:
Brazing on Suction Connectors
(SCE Compressors with Direct Suction Intake)

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**