Singolo
Imballi

Single Pack SCE21MFX 220-230V 50Hz CSIR

Codice Imballo Singolo: **195B4372**

Posizione	Titolo	Codice	Quantità
1	Compressor SCE21MFX	104G8150	1
2	Starting capacitor (80µF 220V, 6.3mm)	117U5017	1
3	Cord relief	103N1004	1
4	Bolt joint for one compressor | M6 | ø16mm	118-1917	1

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop non si assume alcuna responsabilità per eventuali errori presenti in cataloghi, brochure e altro materiale stampato. Secop si riserva il diritto di modificare i propri prodotti senza preavviso. Ciò vale anche per i prodotti già ordinati, a condizione che tali modifiche possano essere apportate senza che siano necessarie modifiche successive alle specifiche già concordate. Tutti i marchi presenti in questo materiale sono di proprietà delle rispettive aziende. Secop e il logo Secop sono marchi di Secop GmbH. Tutti i diritti sono riservati.

Model
SCE21MFX

Sales code:
104G8150

Compressor Data

Refrigerant(s)	**R134a**
Refr. charge - tech. limit	**700g / 24.69oz**
Weight	**13.10 kg / 28.88lbs**
Displacement	**20.95 cm3 / 1.28cu.in**
Compressors on pallet	**80**

General – Configurations With SCE21MFX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-230 V/50 Hz
Number of phases	1
Voltage range	198-244 V
Approvals	CCC, VDE
Starting torque	HST
Refrigerant	R134a
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
SCE21MFX

Sales code:
104G8150

Compressor Design

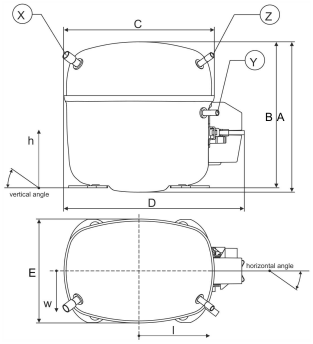
Oil type	**POE**	Winding resistance main	**4.7 Ohm**
Oil viscosity	**22cSt**	Winding resistance aux	**15.9 Ohm**
Oil quantity	**500 / 16.91fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**external**		

Compressor Dimensions

Housing

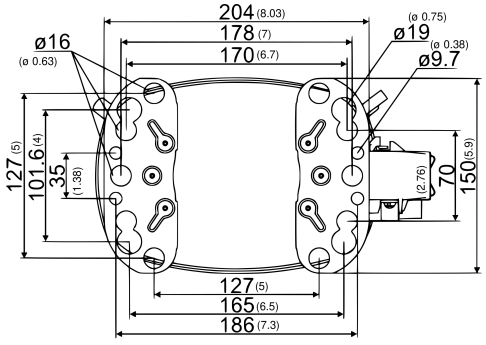
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



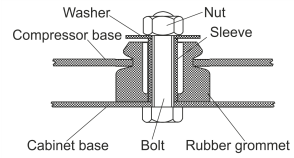
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

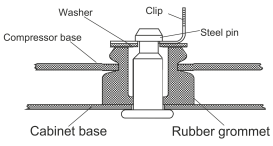


Dimensions in mm [in]

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
SCE21MFX Configuration 1

Sales code:
104G8150

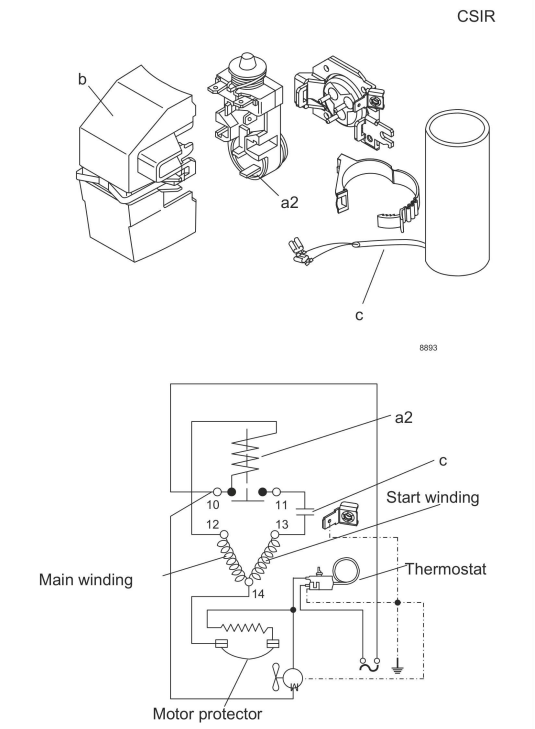
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-230 V/50 Hz 1~**
Refrigerant	**R134a**
Application	**MBP**
Voltage range	**198-244 V**
Starting torque	**HST**
Approvals	**CCC, VDE**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**18 A**
RLA (rated load amps / 1s/ U(N))	**3.5 A**
Cut in current (U(N))	**18 A**

Ambient/ machine room temperatures minimum /maximum
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

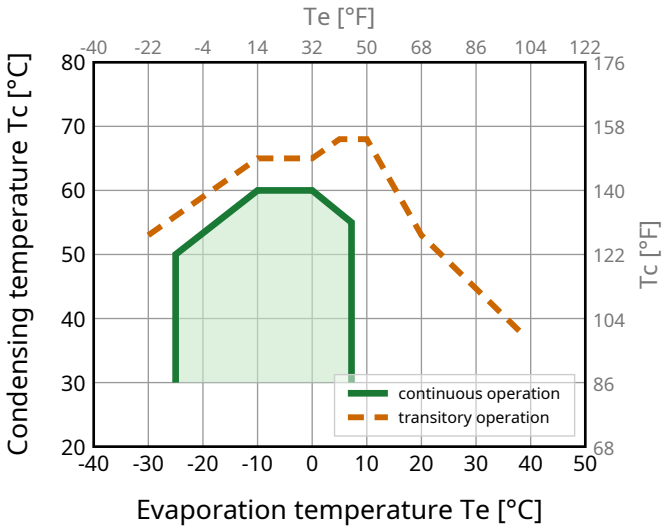
System Cooling
fan 3m/s

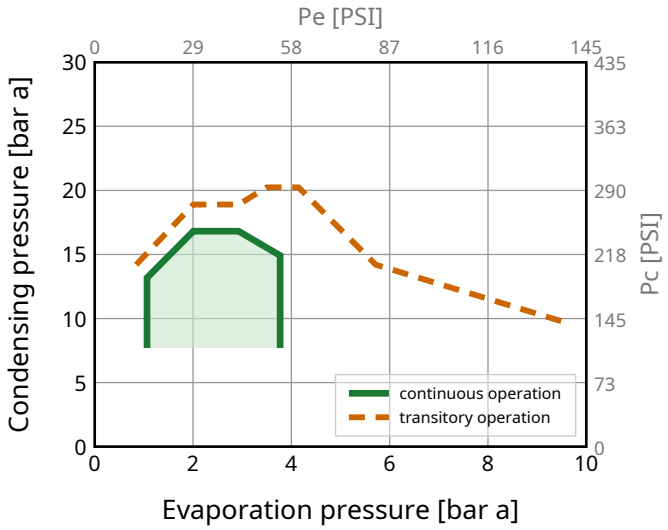
Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)
a2 assy. relay + ext. protector (T1134) 117U7411
c start capacitor (80µF) 117U5017
d cord relief 103N1004
b plastic cover + clamp 117U1033

Operation Pressure Range





Model Sales code:

SCE21MFX Configuration 1 **104G8150**

Standard Conditions

R134a, 220 V/50 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	**1129**	3852	971	**1.82**	6.20	622	3.43	24.58	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**864**	2950	743	**1.51**	5.16	572	3.23	20.84	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**998**	3404	858	**1.79**	6.10	558	3.22	23.26	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1087**	3709	935	**1.80**	6.13	605	3.37	26.71	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1033**	3525	889	**1.85**	6.32	558	3.22	22.57	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**447**	1525	384	**1.23**	4.18	365	2.63	9.66	**opt MBP 2**

Performance Tables

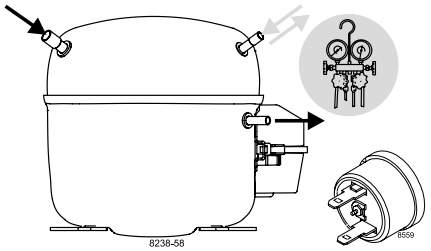
R134a, 220 V/50 Hz, CSIR, fan 3m/s

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]
-25	-13	**447**	1525	384	**1.23**	4.18	365	2.63	9.66
-20	-4	**605**	2065	521	**1.39**	4.74	436	2.82	13.12
-15	5	**800**	2731	688	**1.60**	5.46	500	3.01	17.41
-10	14	**1033**	3525	889	**1.85**	6.32	558	3.22	22.57
-5	23	**1305**	4454	1123	**2.13**	7.27	613	3.43	28.64
0	32	**1618**	5520	1391	**2.43**	8.29	665	3.65	35.69
5	41	**1972**	6727	1696	**2.75**	9.37	718	3.88	43.79
7.2	45	**2141**	7305	1841	**2.88**	9.84	742	3.99	47.70

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

-25	-13	**341**	1162	293	**0.98**	3.35	347	2.52	8.12
-20	-4	**484**	1650	416	**1.15**	3.91	422	2.71	11.57
-15	5	**658**	2244	566	**1.32**	4.52	497	2.95	15.79
-10	14	**864**	2950	743	**1.51**	5.16	572	3.23	20.84
-5	23	**1105**	3770	950	**1.70**	5.79	651	3.55	26.78
0	32	**1380**	4709	1187	**1.88**	6.40	735	3.92	33.66
5	41	**1692**	5772	1455	**2.05**	6.98	826	4.32	41.55
7.2	45	**1841**	6280	1583	**2.12**	7.22	869	4.51	45.38



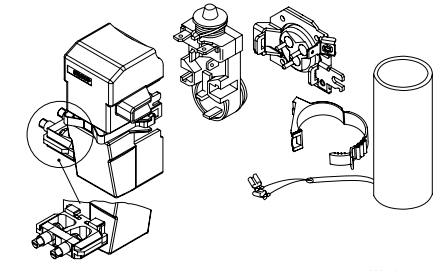
SCE Compressors
(External Protector)

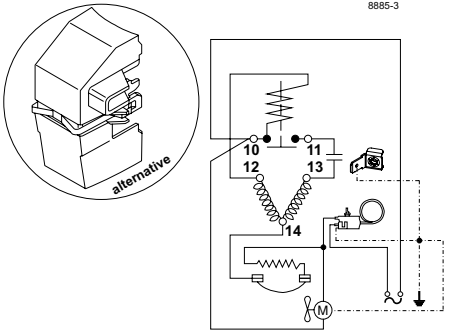
SECOP

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

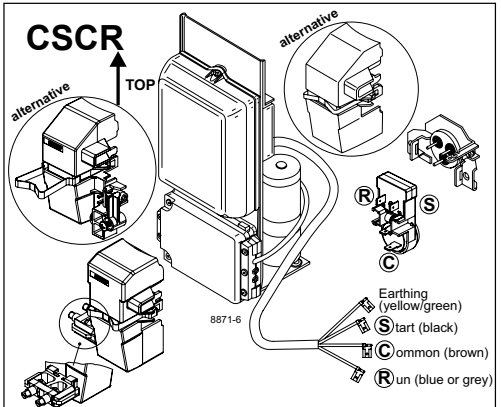
When operated with a <u>flammable refrigerant,</u> only <u>spark-proof starting equipment</u> is allowed.

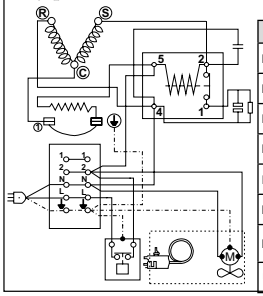
CSIR





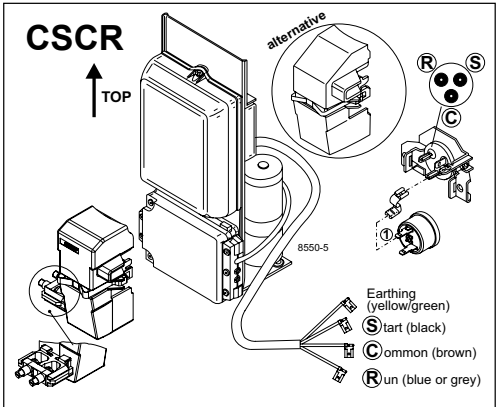
CSCR

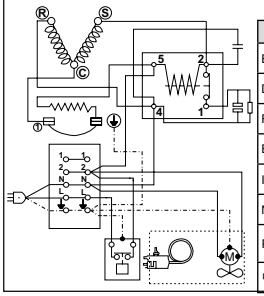




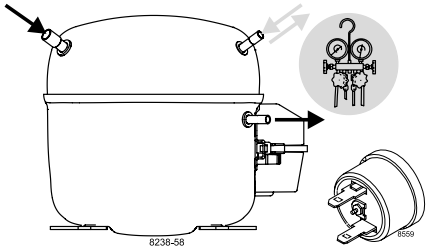
	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

CSCR





	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



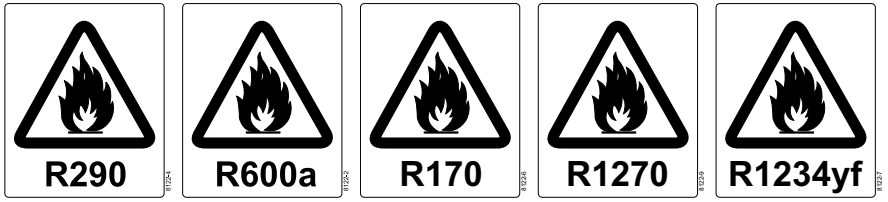
SCE Compressors
(External Protector)

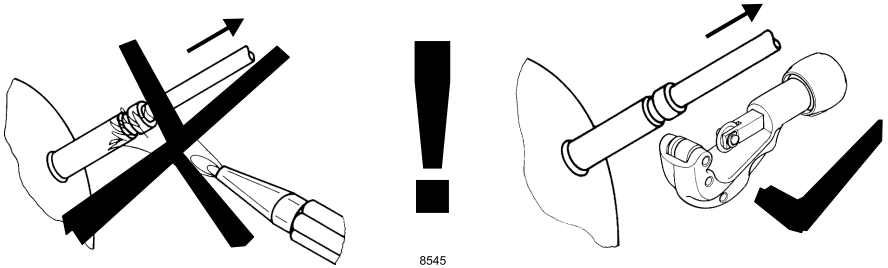
SECOP

Keep electrical equipment clear from oil, chemicals, and water

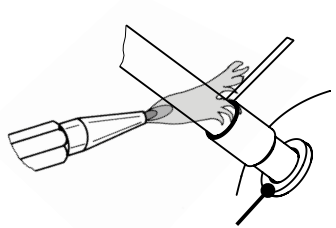
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**