

Single Pack SCE18MNX 220-240V 50Hz CSIR

Single pack code number: **195B4381**

Position	Title	Code	Amount
1	Compressor SCE18MNX	104H8849	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 accepts no responsibility for possible errors in catalogs, brochures, and other printed material. Secop reserves the right to alter its products without notice. This also applies to products already on order provided that such alterations can be made without subsequent changes being necessary to specifications already agreed. All trademarks in this material are the property of the respective companies. Secop and the Secop logotype are trademarks of Secop GmbH. All rights reserved.

Model
SCE18MNX

Sales code:
104H8849

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	550g / 19.40oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SCE18MNX

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, CCC, EAC, CB	VDE, CCC, EAC, CB
Starting torque	HST	HST
Refrigerant	R290	R290
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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
SCE18MNX

Sales code:
104H8849

Compressor Design

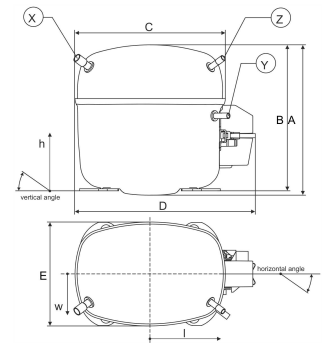
Oil type	POE	Winding resistance main	3.44 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.4 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	external		

Compressor Dimensions

Housing

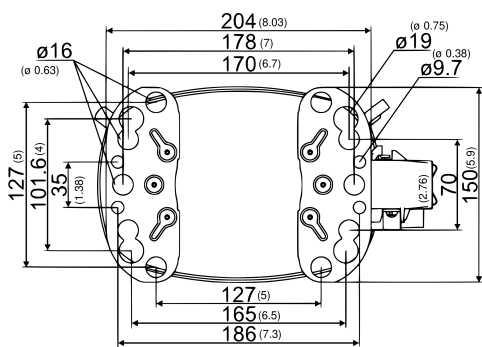
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

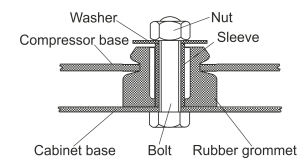


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

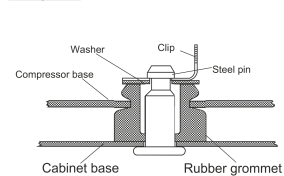
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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:

104H8849

Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.13 A
RLA (rated load amps / 1s/ U(N))	2.2 A
Cut in current (U(N))	19.13 A

Ambient/ machine room temperatures minimum /maximum

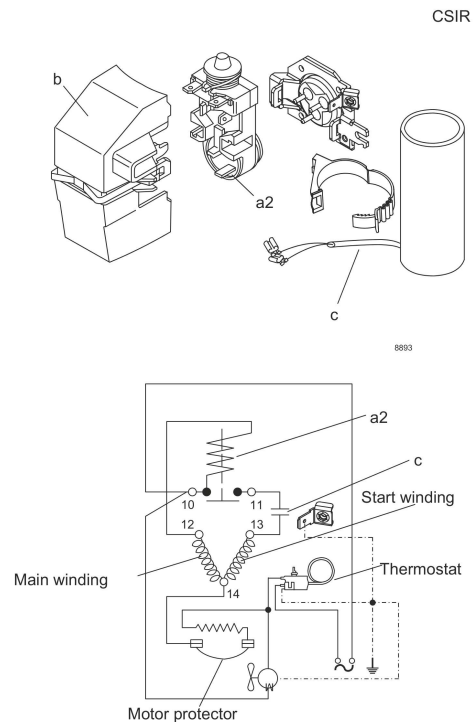
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

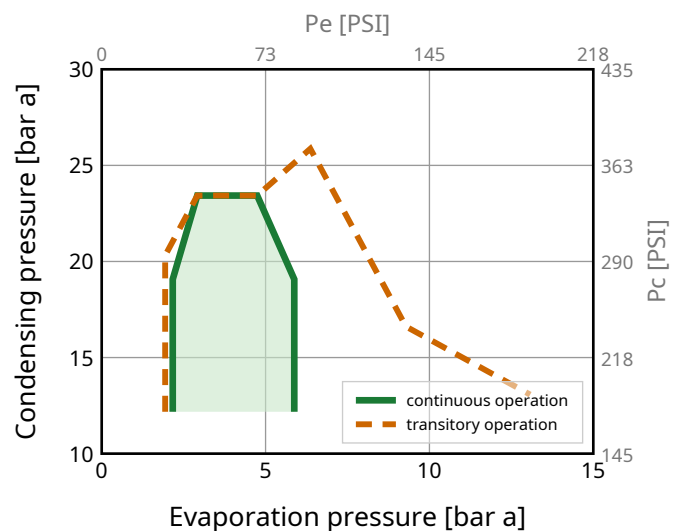
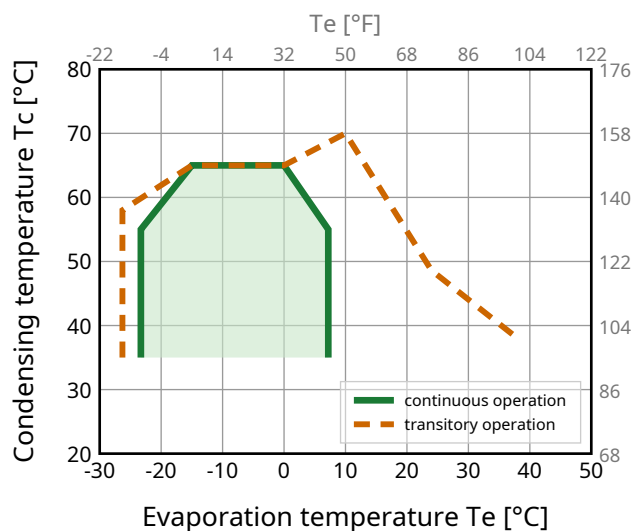
a2 assy. relay + ext. protector (T0214) 117U7406

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



Model

SCE18MNX

Configuration 1

Sales code:

104H8849

Standard Conditions

R290, 230 V/50 Hz, CSIR, 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	1503	5128	1293	1.98	6.75	760	4.42	17.21	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1190	4060	1023	1.64	5.61	724	4.30	15.13	CECOMAF MBP
-10 14	45 113	20 68	45 113	1322	4512	1137	1.99	6.78	665	4.12	16.27	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1412	4818	1214	1.95	6.66	723	4.30	18.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1375	4690	1182	2.07	7.05	665	4.12	15.79	opt MBP 1
-25 -13	45 113	32 89.6	45 113	719	2454	618	1.39	4.76	516	3.67	8.15	opt MBP 2

Performance Tables

R290, 230 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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	777	2652	668	1.46	4.98	532	3.71	8.82
-20	-4	902	3077	776	1.60	5.45	564	3.80	10.26
-15	5	1120	3822	963	1.82	6.21	616	3.95	12.80
-10	14	1375	4690	1182	2.07	7.05	665	4.12	15.79
-5	23	1666	5685	1433	2.35	8.01	710	4.27	19.25
0	32	1996	6809	1716	2.68	9.13	746	4.39	23.20
5	41	2363	8063	2032	3.08	10.50	768	4.47	27.69
7.2	45	2537	8656	2182	3.28	11.20	773	4.48	29.85

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

-23.3	-10	654	2231	562	1.17	4.01	557	3.78	8.21
-20	-4	768	2621	661	1.29	4.39	596	3.89	9.67
-15	5	965	3292	830	1.46	4.99	660	4.09	12.20
-10	14	1190	4060	1023	1.64	5.61	724	4.30	15.13
-5	23	1444	4927	1242	1.84	6.28	784	4.51	18.48
0	32	1728	5897	1486	2.06	7.05	837	4.70	22.29
5	41	2043	6971	1757	2.33	7.93	879	4.85	26.58
7.2	45	2191	7477	1885	2.46	8.38	892	4.90	28.63

Model

SCE18MNX

Configuration 2

Sales code:

104H8849

Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC, CB
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.13 A
RLA (rated load amps / 1s/ U(N))	2.2 A
Cut in current (U(N))	19.13 A

Ambient/ machine room temperatures minimum /maximum

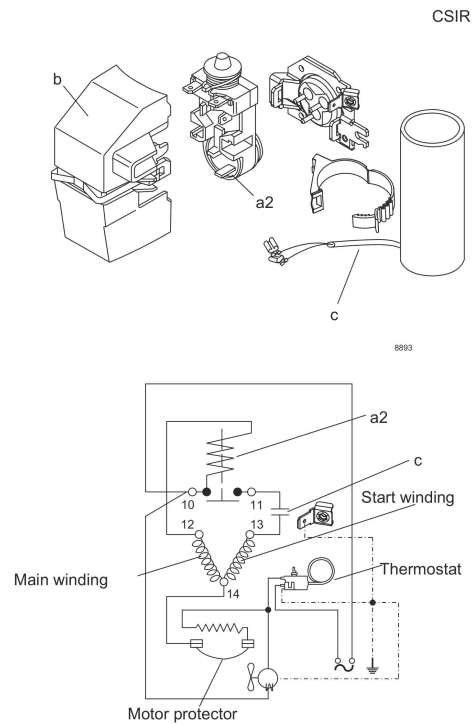
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



Components (relay + cover: pre-assembled)

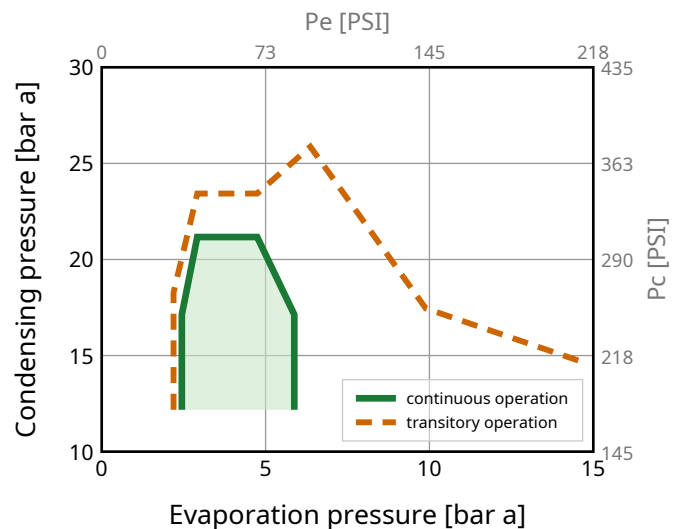
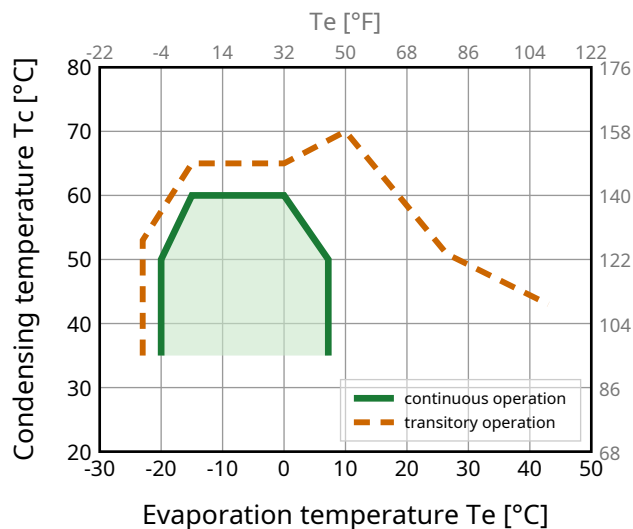
a2 assy. relay + ext. protector (T0214) 117U7406

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover + clamp 117U1033

Operation Pressure Range



Model

SCE18MNX

Configuration 2

Sales code:

104H8849

Standard Conditions

R290, 230 V/50 Hz, CSIR, 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	1503	5128	1293	1.98	6.75	760	4.42	17.21	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1190	4060	1023	1.64	5.61	724	4.30	15.13	CECOMAF MBP
-10 14	45 113	20 68	45 113	1322	4512	1137	1.99	6.78	665	4.12	16.27	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1412	4818	1214	1.95	6.66	723	4.30	18.36	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1375	4690	1182	2.07	7.05	665	4.12	15.79	opt MBP 1
-25 -13	45 113	32 89.6	45 113	719	2454	618	1.39	4.76	516	3.67	8.15	opt MBP 2

Performance Tables

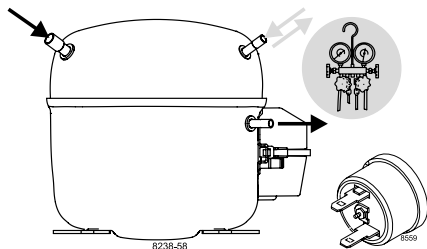
R290, 230 V/50 Hz, CSIR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-20	-4	902	3077	776	1.60	5.45	564	3.80	10.26
-15	5	1120	3822	963	1.82	6.21	616	3.95	12.80
-10	14	1375	4690	1182	2.07	7.05	665	4.12	15.79
-5	23	1666	5685	1433	2.35	8.01	710	4.27	19.25
0	32	1996	6809	1716	2.68	9.13	746	4.39	23.20
5	41	2363	8063	2032	3.08	10.50	768	4.47	27.69
7.2	45	2537	8656	2182	3.28	11.20	773	4.48	29.85

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

-20	-4	768	2621	661	1.29	4.39	596	3.89	9.67
-15	5	965	3292	830	1.46	4.99	660	4.09	12.20
-10	14	1190	4060	1023	1.64	5.61	724	4.30	15.13
-5	23	1444	4927	1242	1.84	6.28	784	4.51	18.48
0	32	1728	5897	1486	2.06	7.05	837	4.70	22.29
5	41	2043	6971	1757	2.33	7.93	879	4.85	26.58
7.2	45	2191	7477	1885	2.46	8.38	892	4.90	28.63



SCE Compressors

(External Protector)

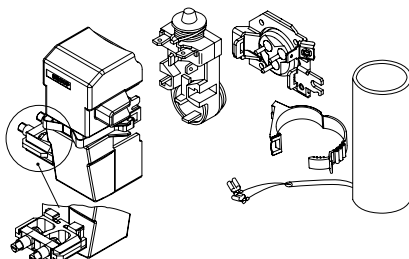
SECCP

Keep electrical equipment clear from oil, chemicals, and water



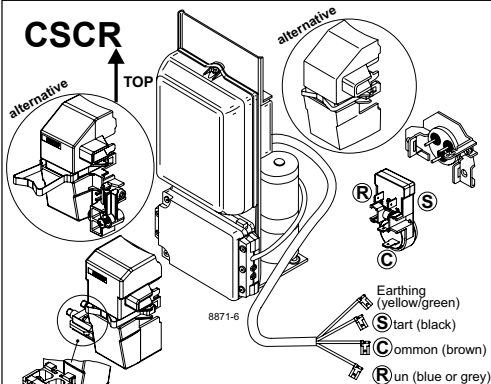
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

CSIR



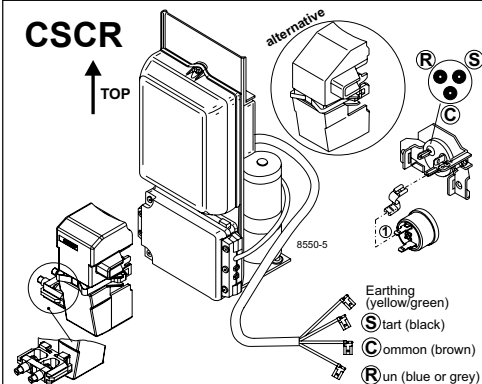
8885-3

CSCR

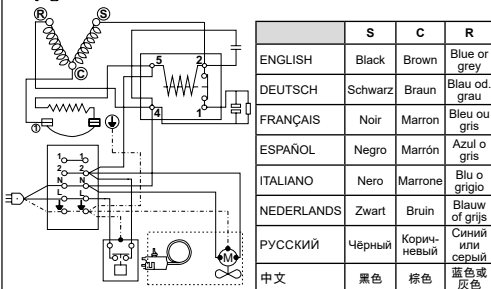


Earthing (yellow/green)
S (start black)
C (common brown)
R (run blue or grey)

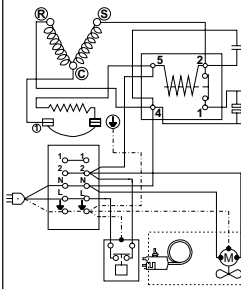
CSCR



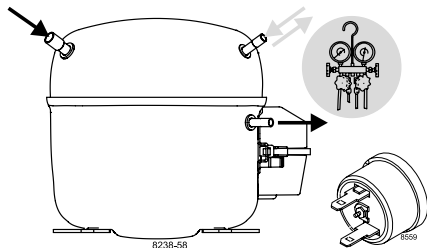
Earthing (yellow/green)
S (start black)
C (common brown)
R (run blue or grey)



	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	Коричневый	Синий или серый
中文	黑色	棕色	蓝色或灰色



	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	Коричневый	Синий или серый
中文	黑色	棕色	蓝色或灰色



SCE Compressors (External Protector)

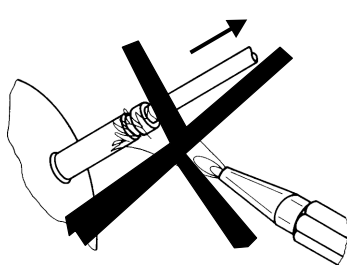
SECCP

Keep electrical equipment
clear from oil, chemicals,
and water

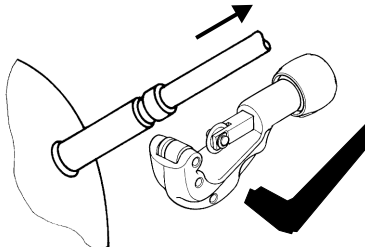


When operated with a flammable
refrigerant, only spark-proof
starting equipment is allowed.

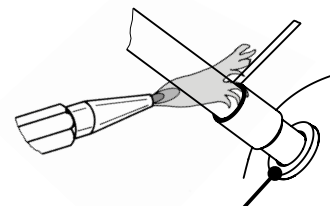
Service/Repair – R290, R600a, R170, R1270, R1234yf (applies to all flammable refrigerants)



8545



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.seccop.com**