Single
Packs

Single Pack SCE15MNX 115-127V 60Hz CSCR

Single pack code number: **195B4434**

Position	Title	Code	Amount
1	Compressor SCE15MNX	104H7579	1
2	SC starting device (600mm)	117-7801	1
3	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
4	Overload protector T1069/46	117U3216	1
5	Protector holder	117U0439	1
6	Cover	117U1021	1

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Model
SCE15MNX

Sales code:
104H7579

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**450g / 15.87oz**
Weight	**14.20 kg / 31.31lbs**
Displacement	**15.28 cm3 / 0.93cu.in**
Compressors on pallet	**80**

General – Configurations With SCE15MNX

–	**Conf. 1**	**Conf. 2**
Motor configuration	CSCR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R290	R290
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

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

Model
SCE15MNX

Sales code:
104H7579

Compressor Design

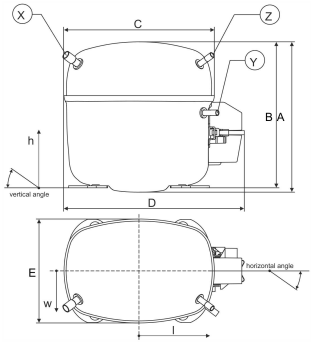
Oil type	**POE**	Winding resistance main	**0.82 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**2.9 Ohm**
Oil quantity	**541 / 18.29fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**external**		

Compressor Dimensions

Housing

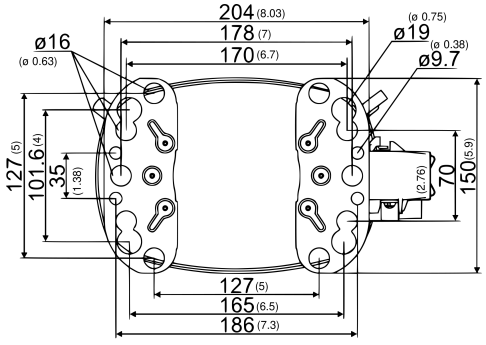
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



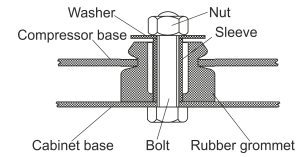
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

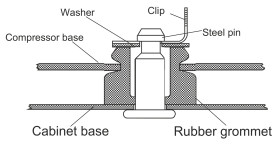


Dimensions in mm [in]

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
SCE15MNX Configuration 1

Sales code:
104H7579

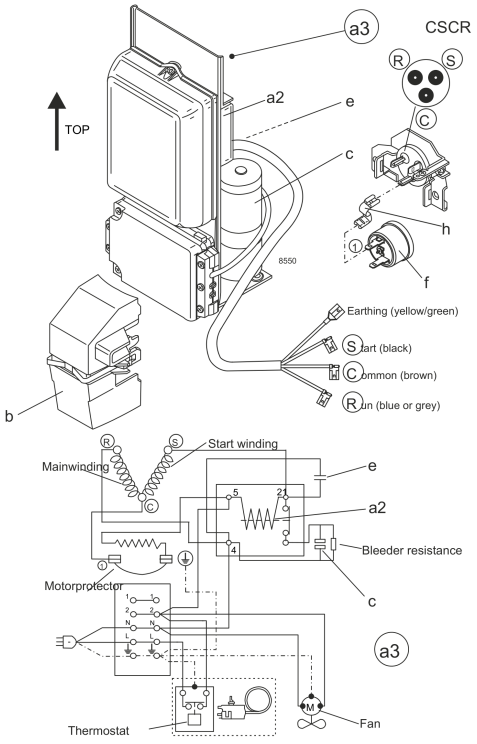
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**23.5 µF**
Start capacitor	**280 µF**
LRA (locked rotor amps / 4s/ U(N))	**43.13 A**
RLA (rated load amps / 1s/ U(N))	**8.3 A**
Cut in current (U(N))	**43.13 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



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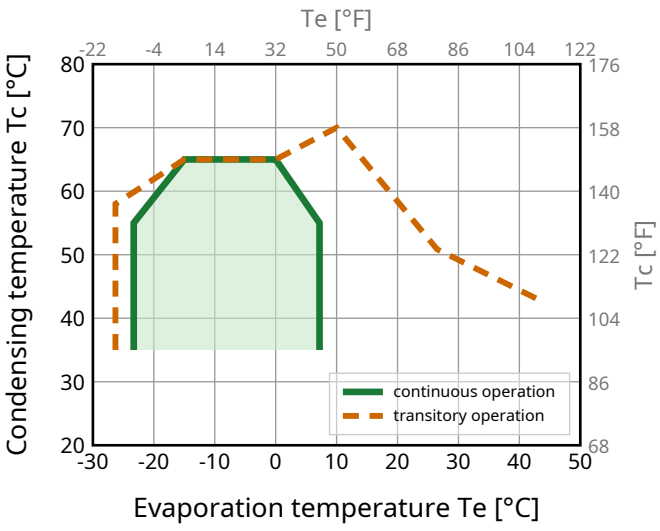
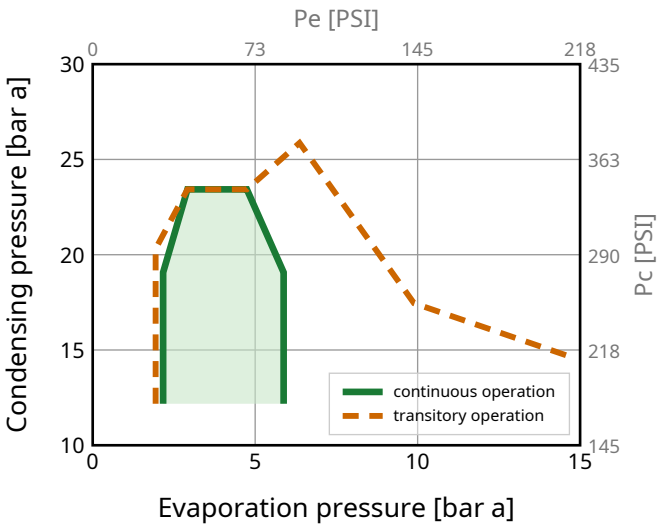
Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7801
h protector holder 117U0439
f ext. protector (T1069/46) 117U3216
b plastic cover + clamp 117U1021

Alternative components
a2 potential relay (RVA 7AA3R) 117-7441
e run capacitor (23,5µF, 6.3mm) 117-7133
c start capacitor (280µF, 6.3mm) 117U5350

Operation Pressure Range





Model Sales code:

SCE15MNX Configuration 1 **104H7579**

Standard Conditions

R290, 115 V/60 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	**1552**	5296	1335	**2.16**	7.38	717	7.10	17.77	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1219**	4159	1048	**1.78**	6.09	683	6.82	15.50	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1379**	4704	1186	**2.19**	7.47	630	6.43	16.97	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1472**	5022	1266	**2.15**	7.34	684	6.85	19.14	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1433**	4890	1233	**2.27**	7.76	630	6.43	16.46	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**719**	2453	618	**1.46**	4.98	492	5.44	8.15	**opt MBP 2**

Performance Tables

R290, 115 V/60 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]
-23.3	-10	**784**	2677	675	**1.54**	5.27	508	5.53	8.90
-20	-4	**923**	3150	794	**1.72**	5.86	538	5.74	10.50
-15	5	**1162**	3963	999	**1.99**	6.79	584	6.08	13.27
-10	14	**1433**	4890	1233	**2.27**	7.76	630	6.43	16.46
-5	23	**1737**	5928	1494	**2.58**	8.79	675	6.79	20.07
0	32	**2073**	7073	1783	**2.89**	9.87	716	7.14	24.11
5	41	**2440**	8324	2098	**3.23**	11.03	755	7.45	28.59
7.2	45	**2610**	8907	2245	**3.39**	11.57	770	7.57	30.71

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

-23.3	-10	**636**	2171	547	**1.27**	4.33	502	5.43	7.99
-20	-4	**760**	2594	654	**1.38**	4.72	550	5.78	9.57
-15	5	**974**	3324	838	**1.57**	5.37	619	6.31	12.32
-10	14	**1219**	4159	1048	**1.78**	6.09	683	6.82	15.50
-5	23	**1494**	5097	1285	**2.02**	6.90	739	7.28	19.12
0	32	**1798**	6134	1546	**2.29**	7.80	787	7.68	23.18
5	41	**2130**	7269	1832	**2.58**	8.81	825	8.00	27.71
7.2	45	**2285**	7798	1965	**2.73**	9.30	838	8.11	29.86

Model
SCE15MNX Configuration 2

Sales code:
104H7579

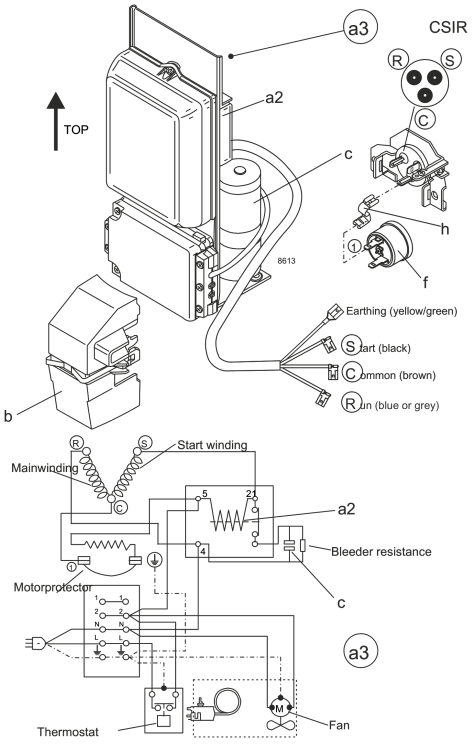
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R290**
Application	**MBP**
Voltage range	**103-127 V**
Starting torque	**HST**
Approvals	**UL**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**280 µF**
LRA (locked rotor amps / 4s/ U(N))	**43.13 A**
RLA (rated load amps / 1s/ U(N))	**8.3 A**
Cut in current (U(N))	**43.13 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



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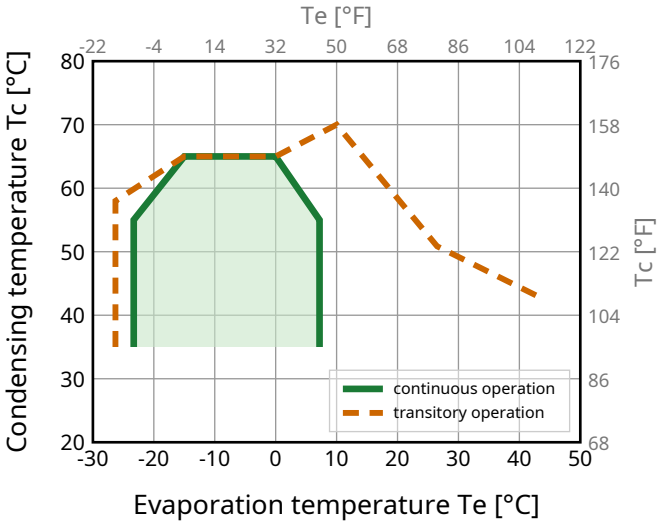
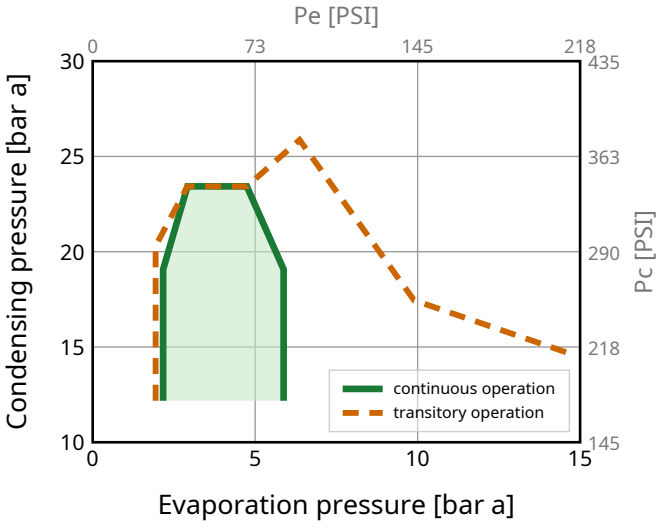
Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7802
h protector holder 117U0439
f ext. protector (T1069/46) 117U3216
b plastic cover + clamp 117U1021

Alternative components
a3 SC starter kit (550mm) 117-7822
a2 potential relay (RVA 7AA3R) 117-7441
c start capacitor (280µF, 6.3mm) 117U5350

Operation Pressure Range





Model
SCE15MNX Configuration 2

Sales code:
104H7579

Standard Conditions

R290, 115 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	**1535**	5236	1320	**2.05**	6.99	749	7.42	17.57	**ASHRAE MBP**
-10 14	55 131	32 89.6	55 131	**1205**	4112	1036	**1.69**	5.77	713	7.12	15.33	**CECOMAF MBP**
-10 14	45 113	20 68	45 113	**1363**	4651	1172	**2.07**	7.07	658	6.72	16.77	**EN12900 MBP**
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	**1455**	4965	1252	**2.04**	6.95	714	7.15	18.92	**ARI540 MBP**
-10 14	45 113	32 89.6	45 113	**1417**	4835	1219	**2.15**	7.35	658	6.72	16.27	**opt MBP 1**
-25 -13	45 113	32 89.6	45 113	**711**	2425	611	**1.38**	4.72	514	5.68	8.06	**opt MBP 2**

Performance Tables

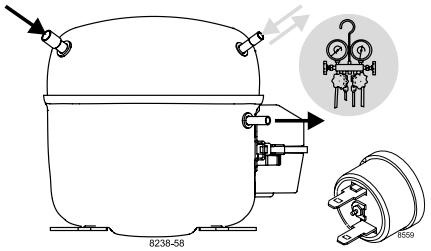
R290, 115 V/60 Hz, CSIR, fan 3m/s

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	**776**	2646	667	**1.46**	4.99	530	5.78	8.80
-20	-4	**913**	3114	785	**1.63**	5.55	562	5.99	10.38
-15	5	**1148**	3918	988	**1.88**	6.42	610	6.34	13.12
-10	14	**1417**	4835	1219	**2.15**	7.35	658	6.72	16.27
-5	23	**1718**	5861	1477	**2.44**	8.32	704	7.09	19.84
0	32	**2050**	6993	1763	**2.74**	9.35	748	7.46	23.83
5	41	**2412**	8230	2074	**3.06**	10.44	788	7.78	28.27
7.2	45	**2581**	8806	2220	**3.21**	10.96	804	7.91	30.36

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

-23.3	-10	**629**	2146	541	**1.20**	4.10	524	5.67	7.90
-20	-4	**752**	2564	646	**1.31**	4.47	574	6.04	9.46
-15	5	**963**	3286	828	**1.49**	5.08	647	6.59	12.18
-10	14	**1205**	4112	1036	**1.69**	5.77	713	7.12	15.33
-5	23	**1477**	5039	1270	**1.91**	6.53	772	7.61	18.90
0	32	**1778**	6065	1529	**2.16**	7.38	822	8.02	22.92
5	41	**2106**	7186	1811	**2.44**	8.34	862	8.36	27.40
7.2	45	**2260**	7709	1943	**2.58**	8.81	876	8.47	29.52



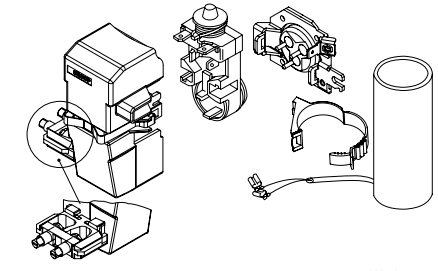
SCE Compressors
(External Protector)

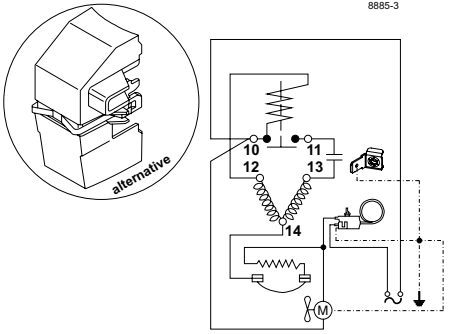
SECOP

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

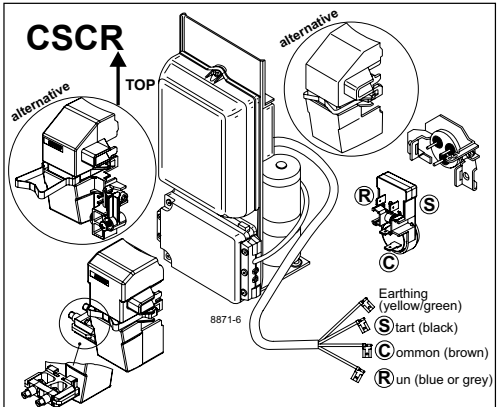
When operated with a <u>flammable refrigerant,</u> only <u>spark-proof starting equipment</u> is allowed.

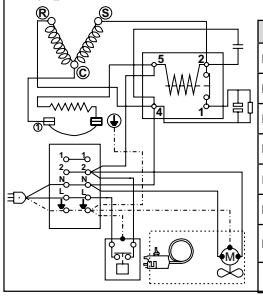
CSIR





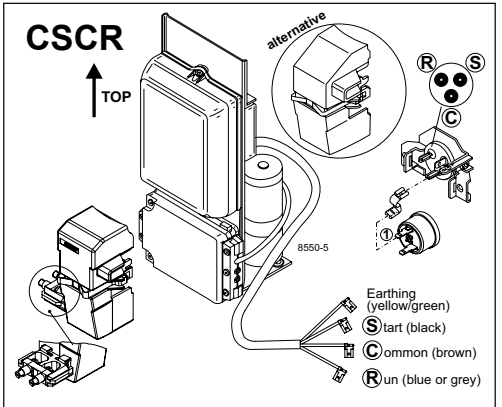
CSCR

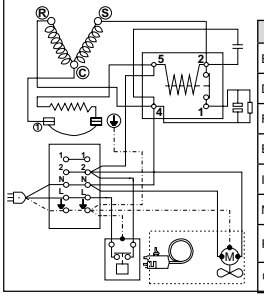




	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

CSCR





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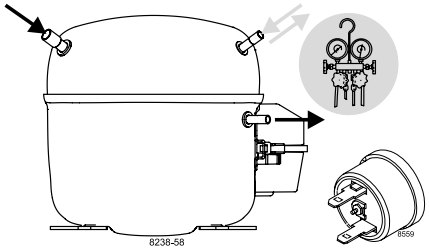
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色



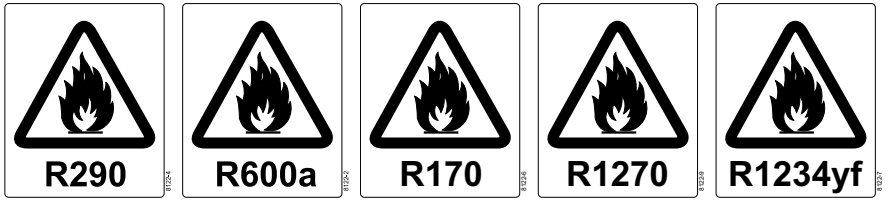
SCE Compressors
(External Protector)

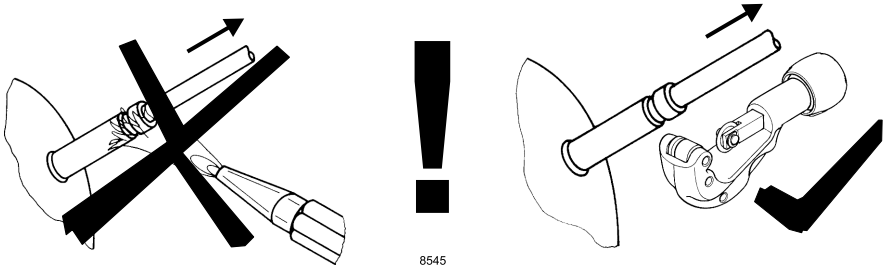
SECOP

Keep electrical equipment clear from oil, chemicals, and water

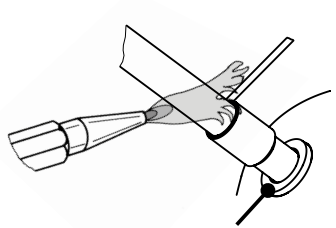
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**