Single
Packs

Single Pack SCE15CNLX 115V 60Hz CSCR

Single pack code number: **195B4433**

Position	Title	Code	Amount
1	Compressor SCE15CNLX	104H7578	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 T1101/46	117U3218	1
5	Protector holder	117U0439	1
6	Cover	117U1021	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 subsequential 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
SCE15CNLX

Sales code:
104H7578

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 SCE15CNLX

–	Conf. 1	Conf. 2	Conf. 3
Motor configuration	CSCR	CSCR	CSIR
Power supply (nominal)	115-127 V/60 Hz	115-127 V/60 Hz	115-127 V/60 Hz
Number of phases	1	1	1
Voltage range	103-127 V	95-135 V	103-127 V
Approvals	UL	UL	UL
Starting torque	HST	HST	HST
Refrigerant	R290	R290	R290
Application	LBP	LBP	LBP
Hot gas defrost	OK	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
SCE15CNLX

Sales code:
104H7578

Compressor Design

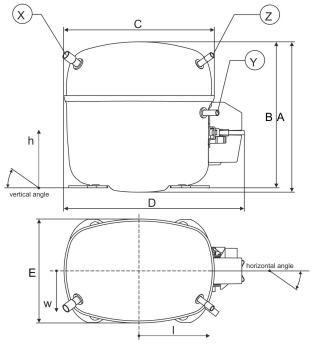
Oil type	**POE**	Winding resistance main	**0.82 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**2.83 Ohm**
Oil quantity	**569 / 19.24fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**external**		

Compressor Dimensions

Housing

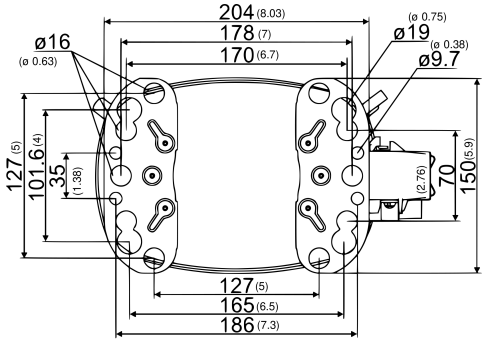
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



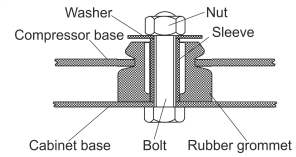
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

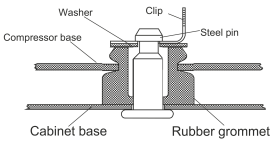


Dimensions in mm [in]

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
SCE15CNLX Configuration 1

Sales code:
104H7578

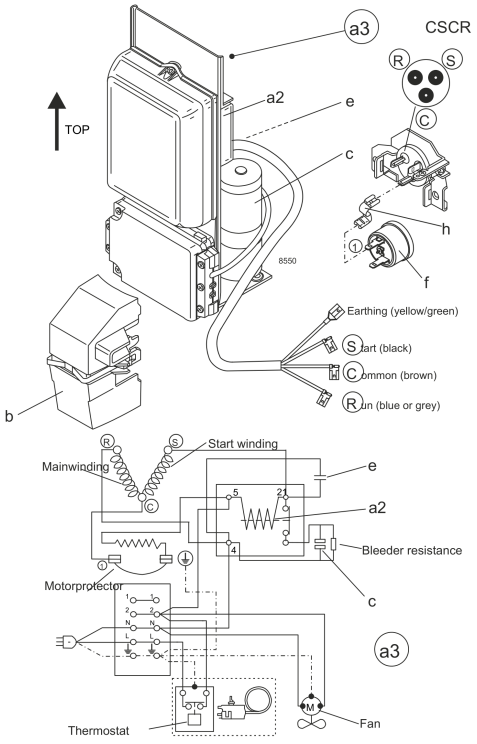
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
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))	**39.66 A**
RLA (rated load amps / 1s/ U(N))	**7.7 A**
Cut in current (U(N))	**39.66 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

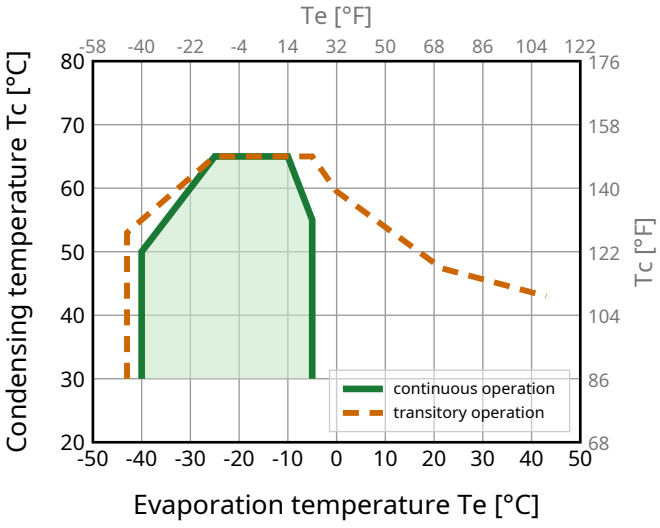


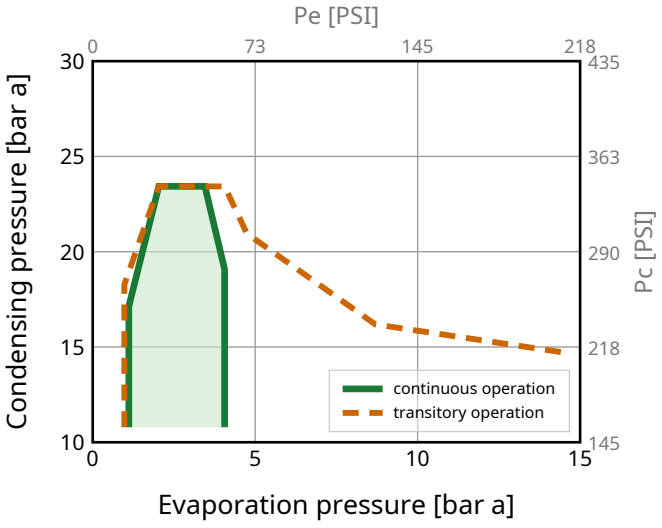
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7801
h protector holder 117U0439
f ext. protector (T1101) 117U3218
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
SCE15CNLX Configuration 1

Sales code:
104H7578

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**804**	2745	692	**1.58**	5.40	508	4.90	8.17	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**583**	1990	501	**1.22**	4.15	480	4.70	7.31	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**403**	1376	347	**1.18**	4.03	342	3.67	4.63	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**668**	2281	575	**1.33**	4.56	501	4.78	9.28	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**918**	3133	790	**1.91**	6.52	481	4.60	9.33	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**348**	1186	299	**1.05**	3.58	331	3.56	3.92	**opt LBP**

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]
-40	-40	**172**	588	148	**0.70**	2.38	248	3.07	1.94
-35	-31	**348**	1186	299	**1.05**	3.58	331	3.56	3.92
-30	-22	**528**	1802	454	**1.30**	4.45	405	4.05	5.97
-25	-13	**720**	2457	619	**1.53**	5.21	471	4.53	8.16
-20	-4	**929**	3171	799	**1.76**	6.00	529	4.99	10.57
-15	5	**1161**	3962	999	**2.01**	6.86	578	5.42	13.27
-10	14	**1422**	4852	1223	**2.30**	7.84	619	5.81	16.33
-5	23	**1718**	5860	1477	**2.63**	8.98	652	6.15	19.84

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

-40	-40	**49**	167	42	**0.28**	0.97	172	2.63	0.61
-35	-31	**225**	768	194	**0.79**	2.69	286	3.34	2.81
-30	-22	**401**	1370	345	**1.03**	3.53	388	4.03	5.01
-25	-13	**583**	1990	501	**1.22**	4.15	480	4.70	7.31
-20	-4	**776**	2648	668	**1.39**	4.73	560	5.32	9.77
-15	5	**987**	3366	848	**1.57**	5.35	629	5.89	12.48
-10	14	**1220**	4162	1049	**1.77**	6.06	687	6.40	15.51
-5	23	**1482**	5057	1275	**2.02**	6.88	735	6.83	18.97

Model
SCE15CNLX Configuration 2

Sales code:
104H7578

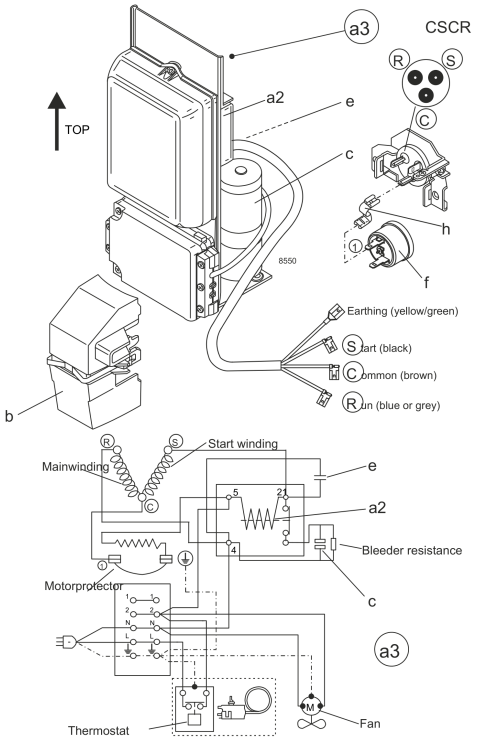
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
Voltage range	**95-135 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))	**39.66 A**
RLA (rated load amps / 1s/ U(N))	**7.7 A**
Cut in current (U(N))	**39.66 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

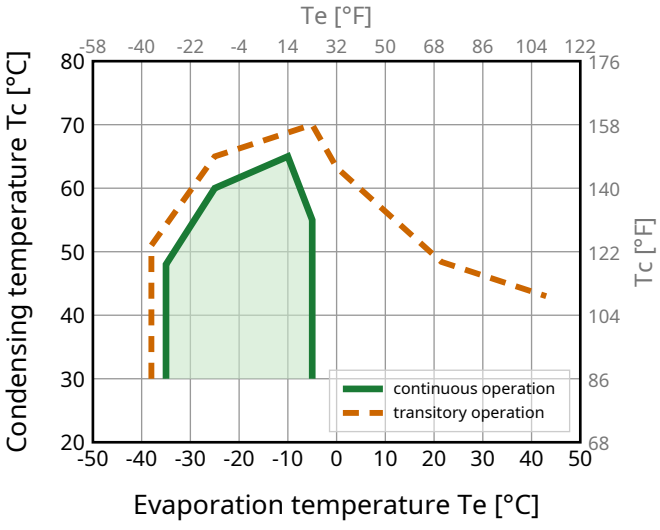


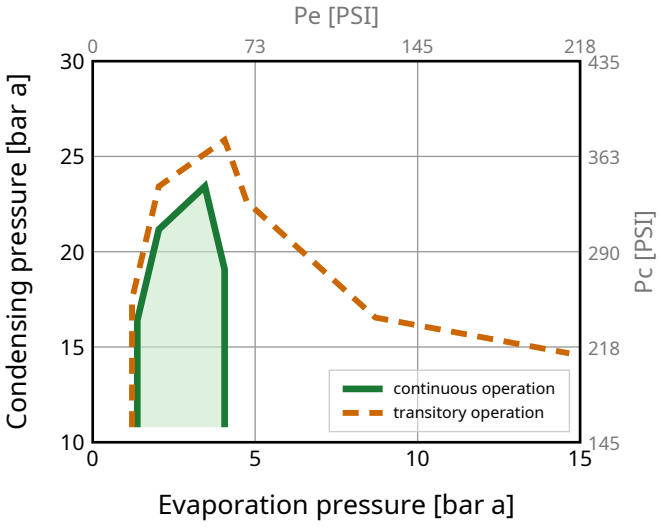
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7801
h protector holder 117U0439
f ext. protector (T1101) 117U3218
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
SCE15CNLX Configuration 2

Sales code:
104H7578

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**804**	2745	692	**1.58**	5.40	508	4.90	8.17	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**583**	1990	501	**1.22**	4.15	480	4.70	7.31	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**403**	1376	347	**1.18**	4.03	342	3.67	4.63	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**668**	2281	575	**1.33**	4.56	501	4.78	9.28	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**918**	3133	790	**1.91**	6.52	481	4.60	9.33	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**348**	1186	299	**1.05**	3.58	331	3.56	3.92	**opt LBP**

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]
-35	-31	**348**	1186	299	**1.05**	3.58	331	3.56	3.92
-30	-22	**528**	1802	454	**1.30**	4.45	405	4.05	5.97
-25	-13	**720**	2457	619	**1.53**	5.21	471	4.53	8.16
-20	-4	**929**	3171	799	**1.76**	6.00	529	4.99	10.57
-15	5	**1161**	3962	999	**2.01**	6.86	578	5.42	13.27
-10	14	**1422**	4852	1223	**2.30**	7.84	619	5.81	16.33
-5	23	**1718**	5860	1477	**2.63**	8.98	652	6.15	19.84

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

-35	-31	**225**	768	194	**0.79**	2.69	286	3.34	2.81
-30	-22	**401**	1370	345	**1.03**	3.53	388	4.03	5.01
-25	-13	**583**	1990	501	**1.22**	4.15	480	4.70	7.31
-20	-4	**776**	2648	668	**1.39**	4.73	560	5.32	9.77
-15	5	**987**	3366	848	**1.57**	5.35	629	5.89	12.48
-10	14	**1220**	4162	1049	**1.77**	6.06	687	6.40	15.51
-5	23	**1482**	5057	1275	**2.02**	6.88	735	6.83	18.97

Model
SCE15CNLX Configuration 3

Sales code:
104H7578

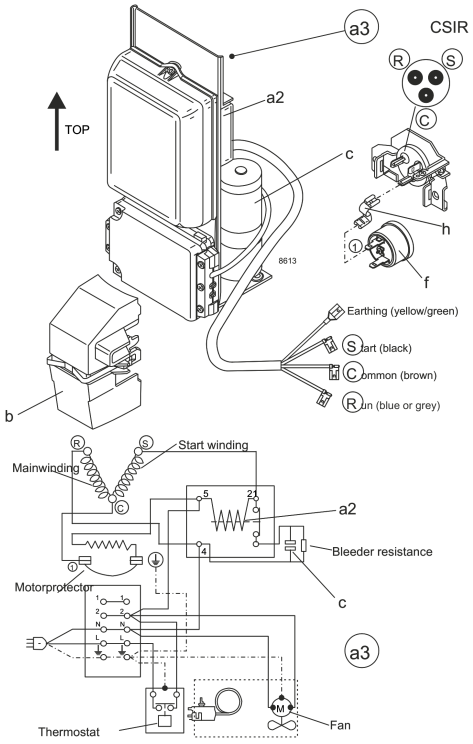
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**115-127 V/60 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
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))	**39.66 A**
RLA (rated load amps / 1s/ U(N))	**7.7 A**
Cut in current (U(N))	**39.66 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

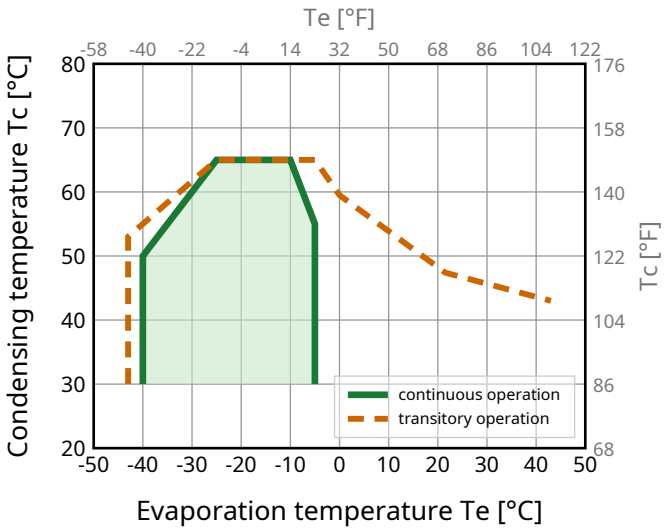


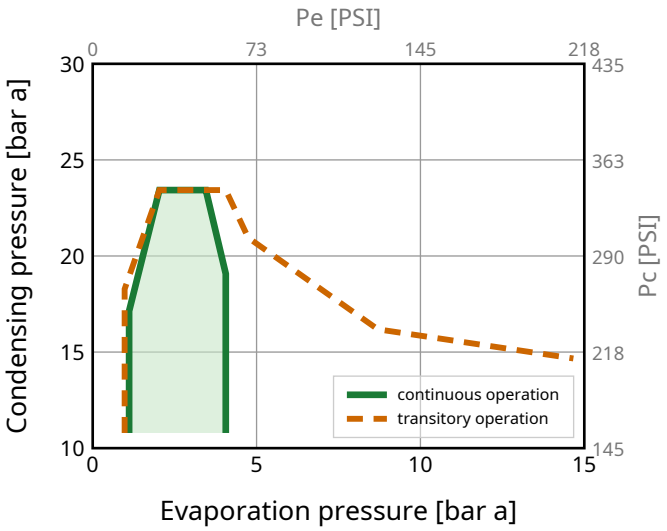
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7802
h protector holder 117U0439
f ext. protector (T1101) 117U3218
b plastic cover + clamp 117U1021

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

Operation Pressure Range





Model
SCE15CNLX Configuration 3

Sales code:
104H7578

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	**802**	2736	690	**1.51**	5.14	533	6.21	8.14	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**581**	1984	500	**1.16**	3.95	503	6.00	7.29	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**402**	1372	346	**1.12**	3.84	357	4.97	4.61	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**666**	2274	573	**1.27**	4.33	525	6.12	9.25	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**915**	3123	787	**1.81**	6.18	506	5.94	9.30	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**346**	1182	298	**1.00**	3.43	345	4.91	3.90	**opt LBP**

Performance Tables

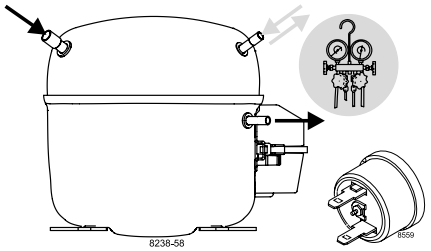
R290, 115 V/60 Hz, CSIR, fan 3m/s

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]
-40	-40	**172**	586	148	**0.67**	2.29	255	4.36	1.93
-35	-31	**346**	1182	298	**1.00**	3.43	345	4.91	3.90
-30	-22	**527**	1797	453	**1.24**	4.23	425	5.42	5.95
-25	-13	**718**	2450	617	**1.45**	4.95	495	5.88	8.14
-20	-4	**926**	3160	797	**1.67**	5.69	556	6.30	10.54
-15	5	**1157**	3949	995	**1.91**	6.50	607	6.68	13.22
-10	14	**1417**	4834	1219	**2.18**	7.44	650	7.00	16.27
-5	23	**1711**	5838	1471	**2.50**	8.53	684	7.28	19.76

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

-40	-40	**49**	167	42	**0.28**	0.96	174	3.90	0.61
-35	-31	**225**	767	193	**0.76**	2.59	296	4.66	2.80
-30	-22	**400**	1366	344	**0.99**	3.37	406	5.36	5.00
-25	-13	**581**	1984	500	**1.16**	3.95	503	6.00	7.29
-20	-4	**774**	2639	665	**1.32**	4.49	588	6.59	9.74
-15	5	**983**	3353	845	**1.49**	5.08	660	7.11	12.43
-10	14	**1215**	4144	1045	**1.68**	5.74	722	7.57	15.45
-5	23	**1475**	5033	1269	**1.91**	6.52	772	7.97	18.88



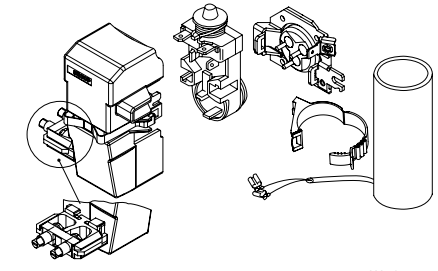
SCE Compressors
(External Protector)

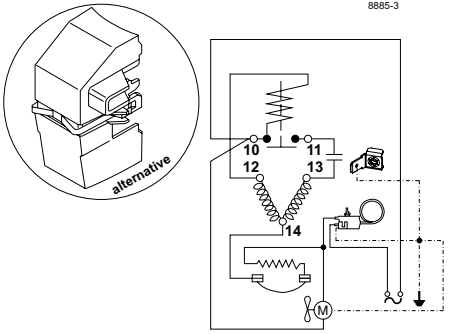
SECOP

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

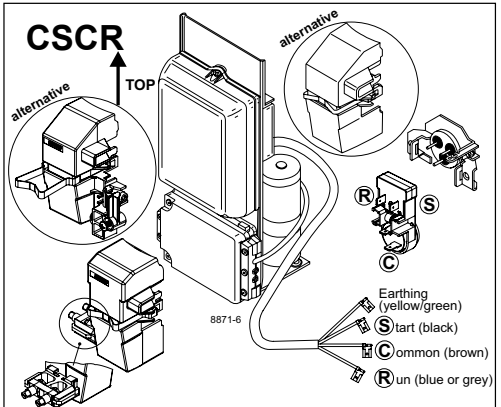
When operated with a <u>flammable refrigerant,</u> only <u>spark-proof starting equipment</u> is allowed.

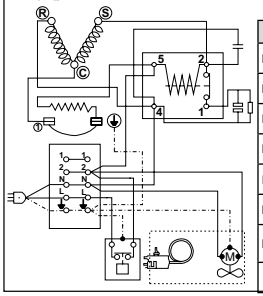
CSIR





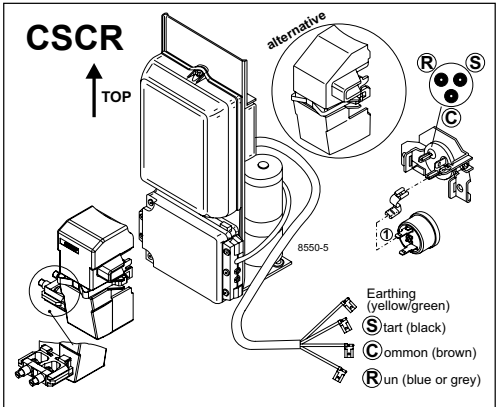
CSCR

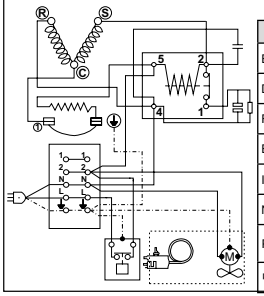




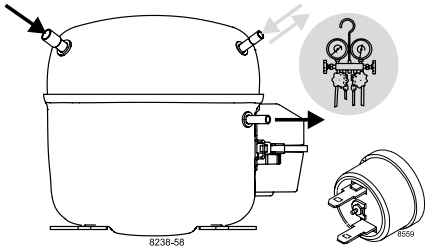
	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

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



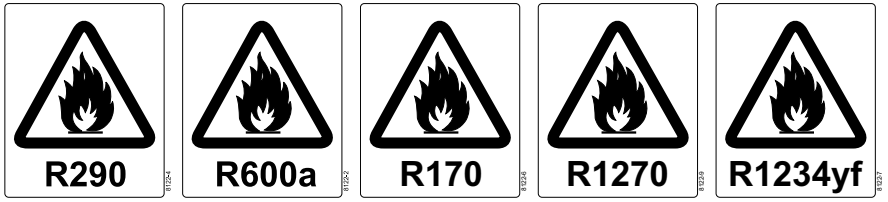
SCE Compressors
(External Protector)

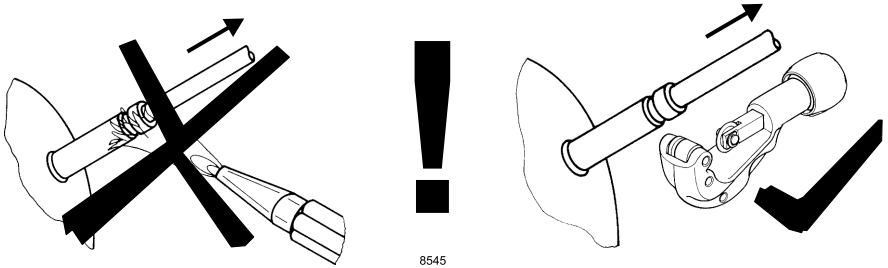
SECOP

Keep electrical equipment clear from oil, chemicals, and water

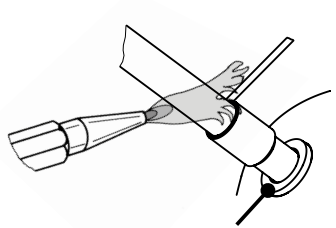
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**