Single
Packs

Single Pack SCE21CNLX 220-240V 50Hz CSCR

Single pack code number: **195B4284**

Position	Title	Code	Amount
1	Compressor SCE21CNLX	104H8163	1
2	SC starting device (550mm)	117-7806	1
3	Bolt joint for one compressor | M6 | ø16mm	118-1917	1
Below electrical equipment is pre-assembled on the compressor:			
4	Overload protector T1102/46	117U8001	1
5	Cover	117U1028	1

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Model
SCE21CNLX

Sales code:
104H8163

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**500g / 17.64oz**
Weight	**14.20 kg / 31.31lbs**
Displacement	**20.95 cm3 / 1.28cu.in**
Compressors on pallet	**80**

General – Configurations With SCE21CNLX

–	**Conf. 1**
Motor configuration	CSCR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	VDE, CCC, EAC
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	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

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Compressor Design

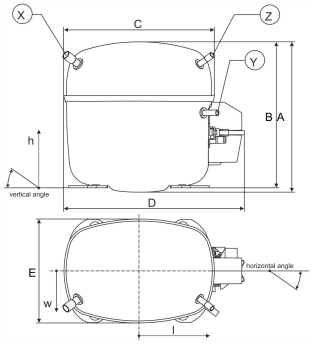
Oil type	**POE**	Winding resistance main	**4.09 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**13.46 Ohm**
Oil quantity	**550 / 18.60fl.oz**	Max. winding temp.	**135 °C**
Free gas volume comp.	**1,460 cm3 / 49.37fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**external**		

Compressor Dimensions

Housing

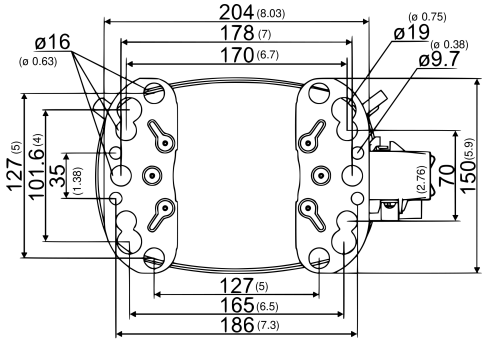
A Height	**219mm / 8.62in**
B Height	**213mm / 8.39in**
C Length shell	**218mm / 8.58in**
D Length w. cover	**255mm / 10.04in**
E Width	**151mm / 5.94in**

Find 3D Model here



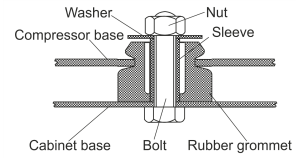
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

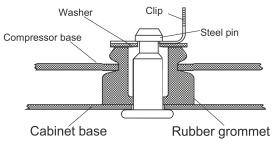


Dimensions in mm [in]

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
SCE21CNLX Configuration 1

Sales code:
104H8163

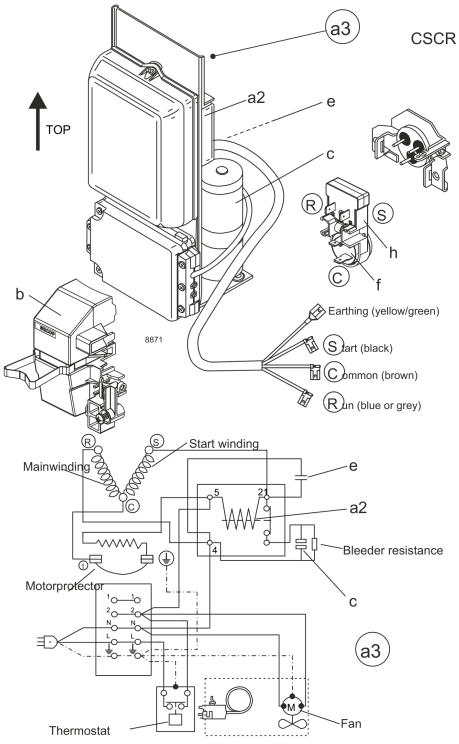
Configuration

Motor configuration	**CSCR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**VDE, CCC, EAC**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**18.29 A**
RLA (rated load amps / 1s/ U(N))	**2.95 A**
Cut in current (U(N))	**18.29 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

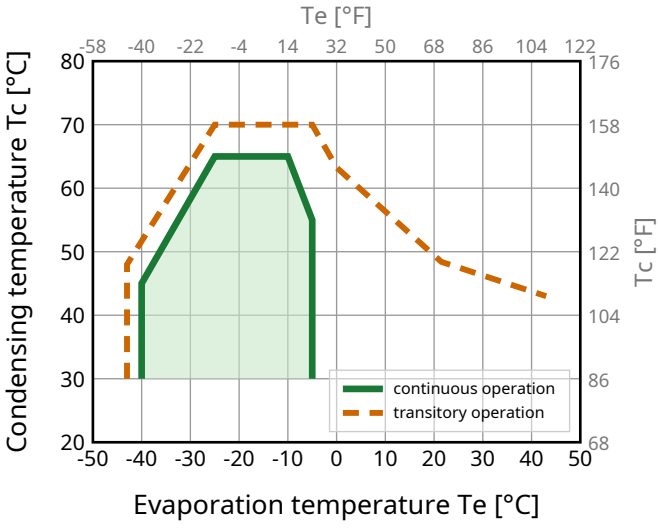


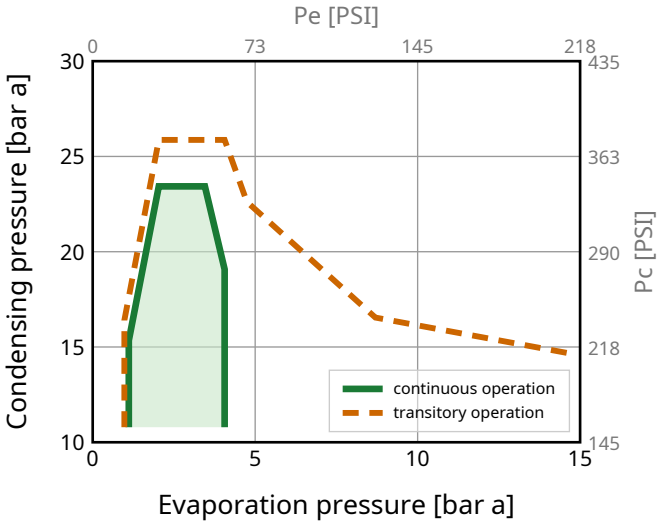
View full size

Components (protector + ~holder + cover: pre assembled)
a3 SC starter kit (550mm) 117-7806
f / h motor protector assy. (T1102) 117U8001
b plastic cover + clamp 117U1028

Alternative components
a3 SC starter kit (1000mm) 117-7813
a2 potential relay (RVA 4I3R A57) 117-7600
e run capacitor (10µF, 6.3mm) 117-7112
c start capacitor (80µF) 117U5373

Operation Pressure Range





Model
SCE21CNLX Configuration 1

Sales code:
104H8163

Standard Conditions

R290, 220 V/50 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	**959**	3273	825	**1.61**	5.51	594	2.81	9.74	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**710**	2424	611	**1.25**	4.25	570	2.70	8.91	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**543**	1854	467	**1.29**	4.40	421	2.03	6.24	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**796**	2716	684	**1.38**	4.71	576	2.74	11.05	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1078**	3680	928	**1.99**	6.80	541	2.57	10.96	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**508**	1733	437	**1.18**	4.02	431	2.10	5.72	**opt LBP**

Performance Tables

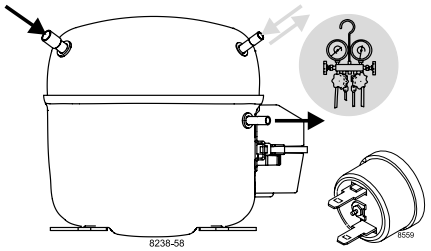
R290, 220 V/50 Hz, CSCR, fan 3m/s

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	**367**	1253	316	**0.96**	3.27	383	1.92	4.13
-35	-31	**508**	1733	437	**1.18**	4.02	431	2.10	5.72
-30	-22	**674**	2299	580	**1.39**	4.75	484	2.33	7.62
-25	-13	**866**	2956	745	**1.60**	5.46	541	2.58	9.82
-20	-4	**1086**	3707	934	**1.81**	6.19	599	2.85	12.36
-15	5	**1336**	4557	1149	**2.04**	6.96	655	3.11	15.26
-10	14	**1615**	5510	1389	**2.28**	7.79	707	3.34	18.54
-5	23	**1925**	6569	1656	**2.56**	8.73	752	3.54	22.24

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

-40	-40	**312**	1063	268	**0.82**	2.81	379	1.88	3.87
-35	-31	**416**	1419	358	**0.96**	3.27	434	2.10	5.18
-30	-22	**548**	1871	472	**1.10**	3.75	499	2.38	6.85
-25	-13	**710**	2424	611	**1.25**	4.25	570	2.70	8.91
-20	-4	**904**	3083	777	**1.40**	4.78	646	3.05	11.37
-15	5	**1128**	3850	971	**1.56**	5.33	723	3.40	14.27
-10	14	**1387**	4732	1193	**1.74**	5.92	799	3.76	17.64
-5	23	**1680**	5731	1444	**1.93**	6.57	872	4.09	21.50



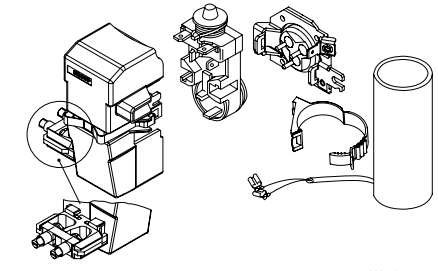
SCE Compressors
(External Protector)

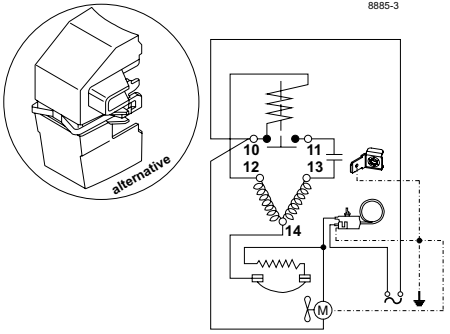
SECOP

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

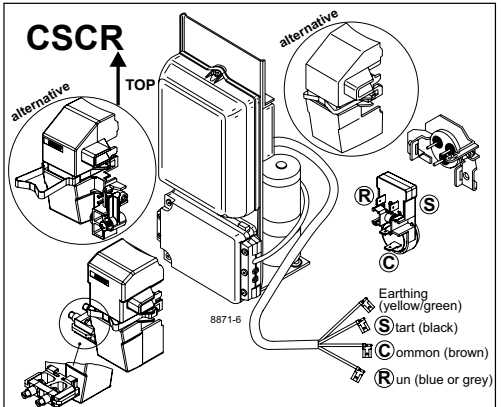
When operated with a <u>flammable refrigerant,</u> only <u>spark-proof starting equipment</u> is allowed.

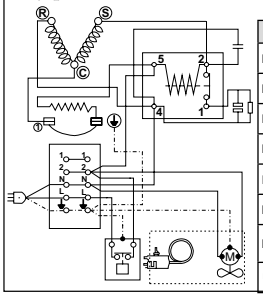
CSIR





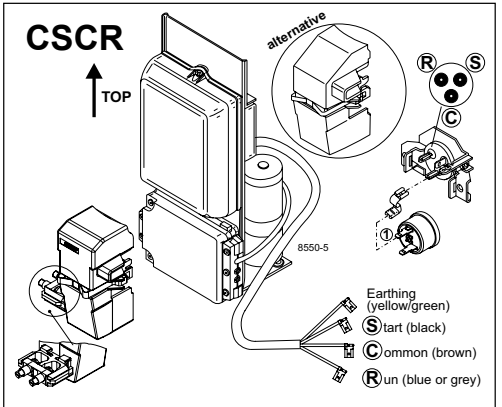
CSCR

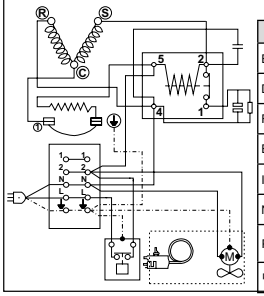




	S	C	R
ENGLISH	Black	Brown	Blue or grey
DEUTSCH	Schwarz	Braun	Blau od. grau
FRANÇAIS	Noir	Marron	Bleu ou gris
ESPAÑOL	Negro	Marrón	Azul o gris
ITALIANO	Nero	Marrone	Blu o grigio
NEDERLANDS	Zwart	Bruin	Blauw of grijs
РУССКИЙ	Чёрный	Корич-невый	Синий или серый
中文	黑色	棕色	蓝色或灰色

CSCR





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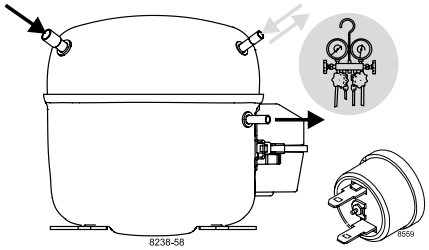


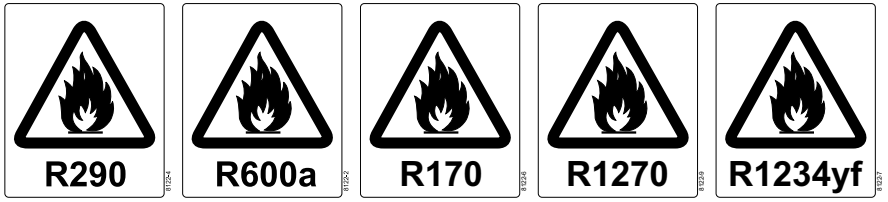
SCE Compressors
(External Protector)

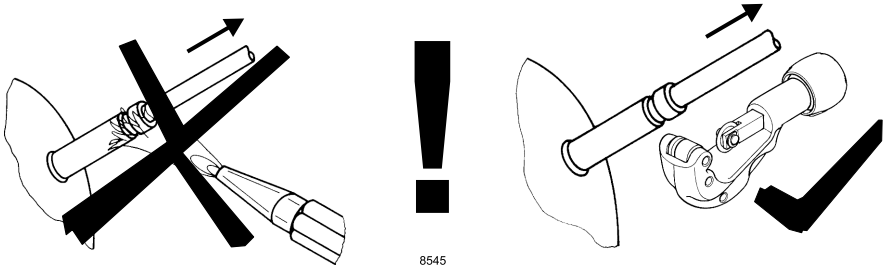
SECOP

Keep electrical equipment clear from oil, chemicals, and water

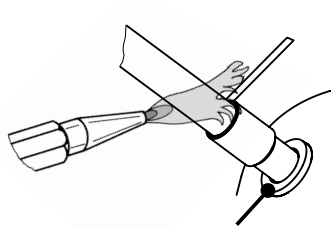
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

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**