Technical Data Compressor

SECOP

Model

Designation	**SCE21CNLX**	**220-240V/50Hz 1~**	Sales code:	**104H8163**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	20,95cm³ / 1,28cu.in
Oil quantity	562cm³ / 19fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	1460cm³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	4,09Ω (at 25°C)		
Winding resistance aux	13,46Ω (at 25°C)		
Max. winding temp.	135°C / 275°F		
Max. discharge temp.	140°C / 284°F		

General - Configurations with SCE21CNLX

	Conf. 1
Motorconfiguration	CSCR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC, EAC
Starting torque	HST
Note	Protector and cover are included and pre-assembled to compressor.

Applications with SCE21CNLX

	Conf. 1
Refrigerant	R290
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	-/-

Electrical data - Configurations with SCE21CNLX

	Conf. 1
Starting device type	relay
Run capacitor	10µF
Start capacitor	80µF
LRA (locked rotor amps / 4s)	18,29A
RLA (rated load amps / 1s)	2,95A
Cut in current	18,29A
IP class	21

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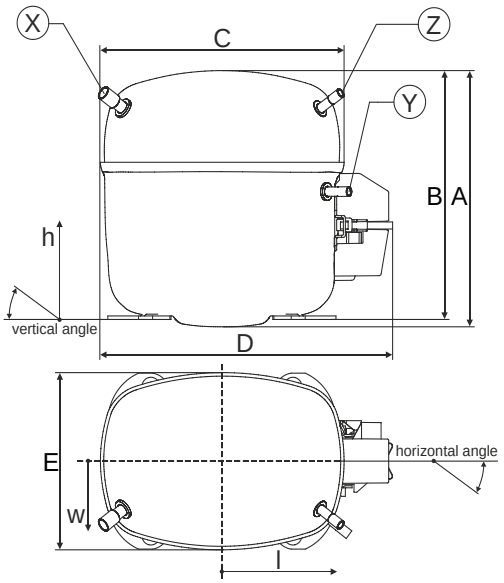
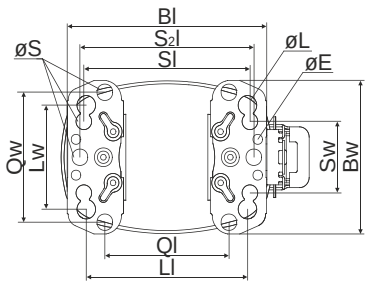
Compressor dimensions

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



Connectors		**Suction**	**Discharge**	**Process**
		X	**Y**	**Z**
Diameter	[mm]	øi 10,11-10,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,4-0,41	øi 0,24-0,25	øi 0,24-0,25
Material		copper	copper	copper
Horizontal angle	±2°	37°	37°	143°
Vertical angle	±2°	30°	0°	150°
Position l/h/w	[mm]	107/193/55	115/110/63	-107/193/55
	[in]	4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

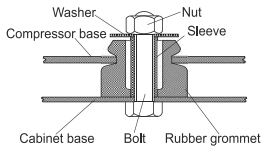


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

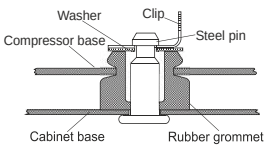
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
Ql	127	5
Qw	127	5

Bolt joint



Snap-on



Mounting accessories	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

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Designation			Sales code:
	SCE21CNLX 220-240V/50Hz	**Conf. 1**	**104H8163**

Configuration

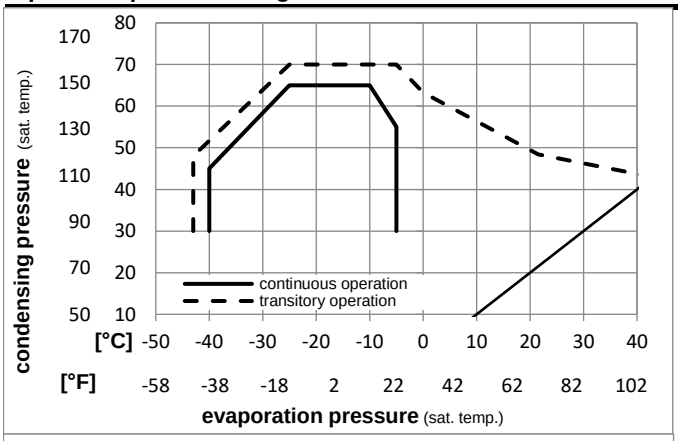
Motorconfiguration	CSCR
Power supply (nominal)	220-240V/50Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254V
Starting torque	HST
Approvals	VDE
	CCC
	EAC

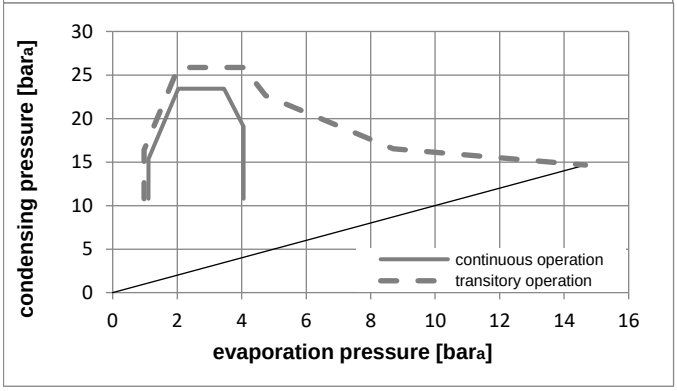
Ambient temperatures / system cooling

Ambient temperature min.:	10°C / 50°F
Ambient temperature max.:	43°C / 110°F

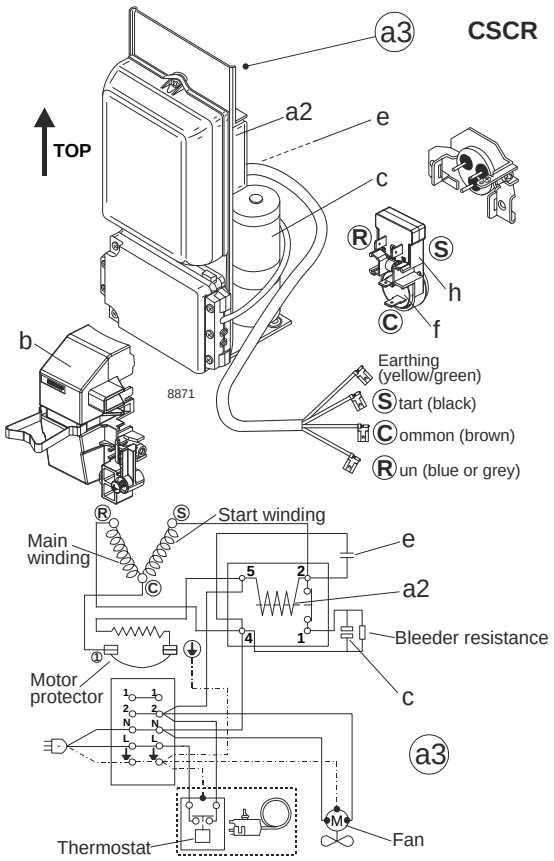
System cooling (n/a: outside limits)			
T ambient	LBP	MBP	HBP
32°C / 90°F	fan 3m/s	n/a	n/a
38°C / 100°F	fan 3m/s	n/a	n/a
43°C / 110°F	fan 3m/s	n/a	n/a

Operation pressure range





Electrical accessories / wiring diagram



Components (protector + ~holder + cover: pre assembled)

a3	SC starter kit (550mm)	117-7806
f / h	motor protector assy. (T1102)	117U8001
b	plastic cover	117U1028

Alternative comp. (protector + ~holder + cover: pre assemb.)

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
f / h	motor protector assy. (T1102)	117U8001
b	plastic cover	117U1028

Model

Designation **SCE21CNLX 220-240V/50Hz** **Conf. 1** Sales code: **104H8163**

Optimization + standard conditions 220-240V/50Hz 1~, CSCR, fan 3m/s, VDE, CCC, EAC

	Evaporating pressure (saturation temperature)	Condensing pressure (saturation temperature)	Return gas temp.	Liquid temp.	Cooling capacity			COP	EER		Power consumption P1	Current consumption I	Ref. mass flow ṁ	
	pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]	
[°C]	-23,3	54,4	32,2	32,2	954,0	3258	821,0	1,61	5,49	1,38	593,5	2,81	9,66	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	710,5	2427	611,5	1,25	4,26	1,07	570,0	2,70	8,85	**cecomaf LBP**
[°F]	-13	131	89,6	131										
[°C]	-35	40	20	40	543,1	1855	467,4	1,29	4,40	1,11	421,1	2,03	6,21	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23,3	48,9	4,44	48,9	791,5	2703	681,2	1,37	4,69	1,18	576,2	2,74	10,96	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23,3	40,6	32,2	32,2	1075,6	3673	925,6	1,99	6,79	1,71	541,0	2,57	10,89	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	508,0	1735	437,2	1,18	4,03	1,01	430,9	2,10	5,69	**opt**
[°F]	-31	113	89,6	113										

Performance tables 220-240V/50Hz 1~, CSCR, fan 3m/s, VDE, CCC, EAC

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-40	-40	367,3	1254	316,1	0,96	3,27	0,82	383,3	1,92	4,11
cond. pressure	-35	-31	508,0	1735	437,2	1,18	4,03	1,01	430,9	2,10	5,69
pc= 45/113	-30	-22	673,9	2302	580,0	1,39	4,75	1,20	484,4	2,33	7,57
return gas temp.	-25	-13	866,4	2959	745,6	1,60	5,47	1,38	541,3	2,58	9,77
RGT= 32/90	-20	-4	1086,5	3710	935,0	1,81	6,19	1,56	599,0	2,85	12,30
liquid temp	-15	5	1335,5	4561	1149,4	2,04	6,96	1,75	655,1	3,11	15,19
Tliq= 45/113	-5	23	1925,4	6576	1657,0	2,56	8,74	2,20	752,1	3,54	22,17
[°C / °F]	-40	-40	311,5	1064	268,1	0,82	2,81	0,71	378,7	1,88	3,84
cond. pressure	-35	-31	415,8	1420	357,8	0,96	3,27	0,82	434,0	2,10	5,14
pc= 55/131	-30	-22	548,3	1873	471,9	1,10	3,76	0,95	498,6	2,38	6,80
return gas temp	-25	-13	710,5	2427	611,5	1,25	4,26	1,07	570,0	2,70	8,85
RGT= 32/90	-20	-4	903,5	3085	777,5	1,40	4,78	1,20	645,5	3,05	11,30
liquid temp	-15	5	1128,5	3854	971,2	1,56	5,33	1,34	722,7	3,40	14,19
Tliq= 55/131	-5	23	1679,6	5736	1445,5	1,93	6,58	1,66	872,0	4,09	21,40