Technical Data Compressor

SECOP

Model

Designation	**SCE23LNIX**	**220-240V/60Hz 1~**	Sales code:	**104H8350**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R290**
Oil viscosity	32cSt	Displacement	23cm³ / 1,4cu.in
Oil quantity	500cm³ / 16,9fl.oz	Compressors on pallet	48
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	3150cm³ / 106,5fl.oz		
Weight	14,9kg / 32,8lbs		
Motor protection	1# internal		
Winding resistance main	2,8Ω (at 25°C)		
Winding resistance aux	10,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	140°C / 284°F		

General - Configurations with SCE23LNIX

	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	220-240V/60Hz
Number of phases	1
Voltage range	195-254V
Approvals	UL, KC
Starting torque	HST
Note	Starter kit(relay), cover and cord relief are included and pre-assembled.

Applications with SCE23LNIX

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

Electrical data - Configurations with SCE23LNIX

	Conf. 1
Starting device type	relay
Run capacitor	10µF
Start capacitor	60µF
LRA (locked rotor amps / 4s/ $U_{(N)}$)	26A
RLA (rated load amps / 1s/ $U_{(N)}$)	2,9A
Cut in current ($U_{(N)}$)	

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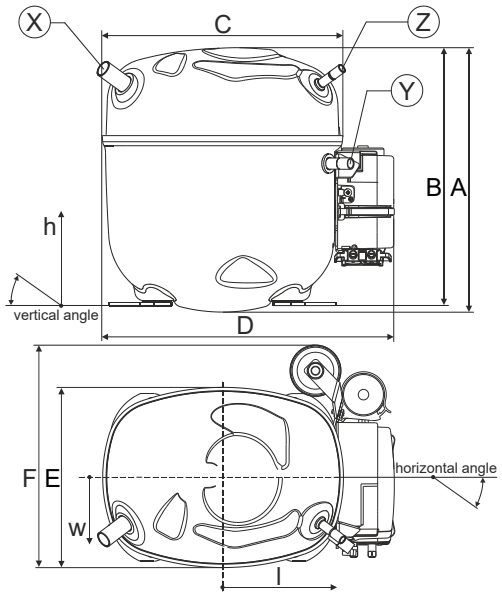
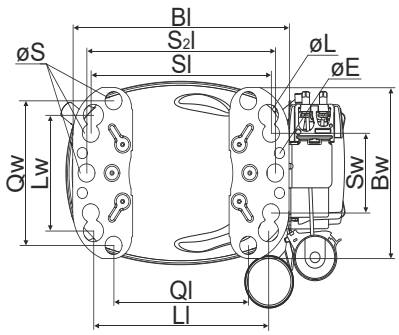
Compressor dimensions

Housing	A Height	236,4mm / 9,31in
	B Height	230,6mm / 9,08in
	C Length shell	217mm / 8,54in
	D Length w. cover	263,4mm / 10,37in
	E Width	161,1mm / 6,34in
	F Width with equipment	199mm / 7,83in



Connectors		**Suction**	**Discharge**	**Process**
		X	**Y**	**Z**
Diameter	[mm]	øi 12,81-12,99	øi 8,11-8,29	øi 6,41-6,59
(i:inside, o:outside)	[in]	øi 0,5-0,51	øi 0,32-0,33	øi 0,25-0,26
Material		copper	copper	copper
Horizontal angle	±2°	37°	37°	37°
Vertical angle	±2°	36°	0°	36°
Position l/h/w	[mm]	-111/212/57	116/127/81	110/94/72
	[in]	-4,4/8,3/2,2	4,5/5/3,2	4,3/3,7/2,8
Straight tube l.	[mm]	12	12	12
	[in]	0,5	0,5	0,5

Compressor fixation

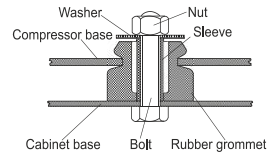


Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

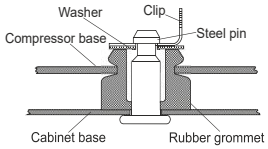
Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

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

Application notes

Provision for PE Grounding is located at the PE Stamp on the compressor

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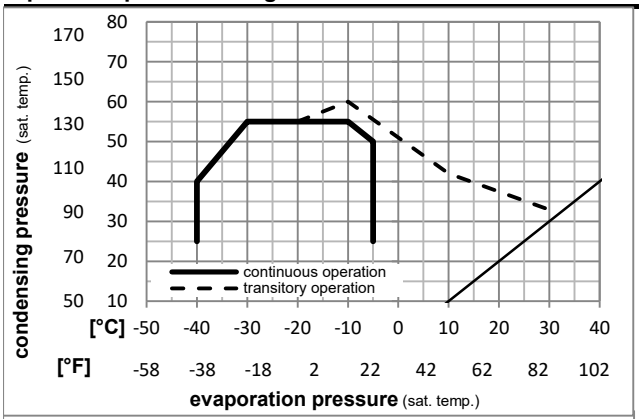
Configuration

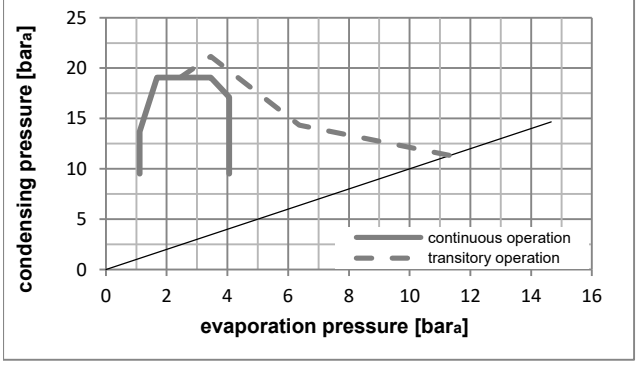
Motor configuration	CSCR
Power supply (nominal)	220-240V/60Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	195-254V
Starting torque	HST
Approvals	UL
	KC

Ambient/ machine room temperatures minimum /maximum

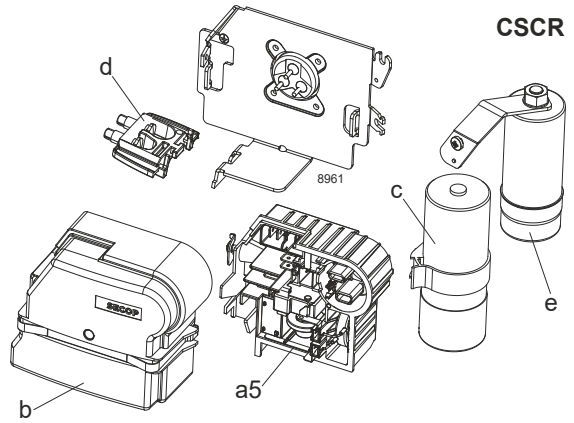
Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

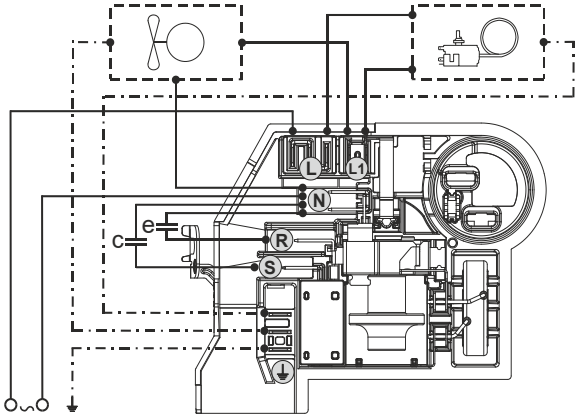
Operation pressure range





Electrical accessories / wiring diagram





Components (Starter kit (a5)+cover (b) +cord relief (d): pre assembled)

a5	SC starter kit	117U8100
b	cover terminal board + clamp	117U1036
c	start capacitor (60µF)	117U5351
e	run capacitor (10µF, 6.3mm)	117-7166
e1	retaining clamp	117-0313
	screw M4x8mm	117-0301
d	cord relief	103N1007

Model

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Optimization + standard conditions R290, 230V/60Hz, CSCR, fan 3m/s, UL, KC

	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	1223,5	4178	1052,9	1,56	5,34	1,35	781,8	3,63	12,39	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	906,1	3094	779,8	1,22	4,16	1,05	744,0	3,46	11,28	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	710,4	2426	611,3	1,31	4,48	1,13	541,2	2,54	8,12	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	1028,4	3512	885,1	1,35	4,59	1,16	764,5	3,56	14,24	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	1406,4	4803	1210,3	1,95	6,66	1,68	721,0	3,35	14,24	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	655,9	2240	564,5	1,20	4,10	1,03	546,9	2,57	7,35	**opt**
[°F]	-31	113	90	113										

Performance tables R290, 230V/60Hz, CSCR, fan 3m/s, UL, KC

	pe [°C]	[°F]	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	P1 [W]	I [A]	m [kg/h]
[°C / °F]	-40	-40	462,3	1579	397,9	0,99	3,39	0,85	465,6	2,22	5,17
cond. pressure	-35	-31	655,9	2240	564,5	1,20	4,10	1,03	546,9	2,57	7,35
pc= 45/113	-30	-22	878,3	3000	755,9	1,39	4,75	1,20	631,7	2,95	9,87
return gas temp.	-25	-13	1131,6	3865	973,8	1,58	5,39	1,36	717,3	3,34	12,76
RGT= 32/90	-20	-4	1417,6	4841	1220,0	1,77	6,04	1,52	801,2	3,72	16,05
liquid temp	-15	5	1738,6	5938	1496,2	1,97	6,74	1,70	880,9	4,09	19,78
Tliq= 45/113	-5	23	2493,2	8515	2145,7	2,45	8,37	2,11	1017,0	4,73	28,71
[°C / °F]	-40	-40	334,8	1143	288,1	0,79	2,71	0,68	422,2	2,01	4,13
cond. pressure	-35	-31	494,2	1688	425,4	0,95	3,23	0,81	522,2	2,45	6,11
pc= 55/131	-30	-22	684,0	2336	588,6	1,09	3,71	0,93	630,3	2,94	8,48
return gas temp	-25	-13	906,1	3094	779,8	1,22	4,16	1,05	744,0	3,46	11,28
RGT= 32/90	-20	-4	1162,5	3970	1000,5	1,35	4,61	1,16	860,6	4,00	14,54
liquid temp	-15	5	1455,3	4970	1252,5	1,49	5,08	1,28	977,5	4,54	18,30
Tliq= 55/131	-5	23	2158,4	7371	1857,5	1,80	6,13	1,55	1202,0	5,61	27,50