

Model

Designation	SCE25LNIX	220-240V/60Hz 1~	Sales code:	104H8440
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	25cm ³ / 1,53cu.in
Oil quantity	500cm ³ / 16,9fl.oz	Compressors on pallet	48
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	3150cm ³ / 106,5fl.oz		
Weight	14,9kg / 32,8lbs		
Motor protection	1# internal		
Winding resistance main	2,4Ω (at 25°C)		
Winding resistance aux	8,9Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	140°C / 284°F		



General - Configurations with SCE25LNIX

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

Applications with SCE25LNIX

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

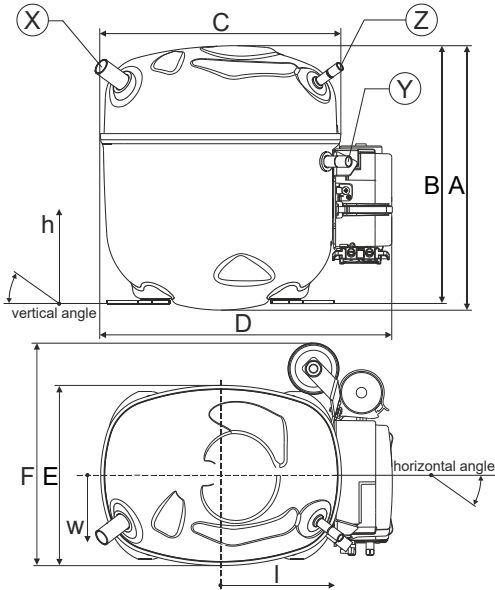
Electrical data - Configurations with SCE25LNIX

	Conf. 1
Starting device type	relay
Run capacitor	15μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	30,2A
RLA (rated load amps / 1s/ U(N))	3,5A
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	steel/CU	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]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

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

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

Bolt joint

Snap-on

Mounting accessories

Bolt joint | M6 | ø16mm

Bolt joint | ø1/4" | ø16mm

Bolt joint | ø1/4" | ø19mm

Snap-on | ø7,3 | ø16mm

one comp.

118-1917

118-1946

118-1949

118-1947

multi pack

118-1918

118-1919

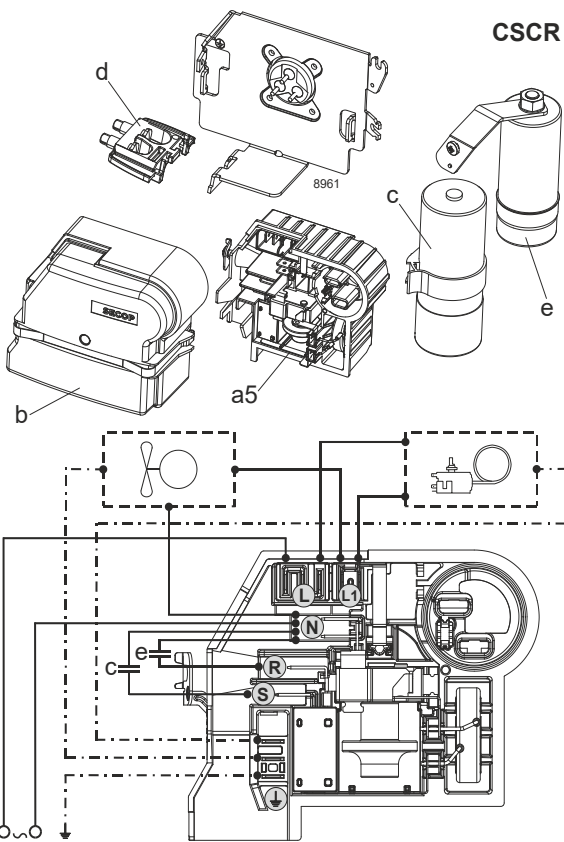
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Configuration

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Application	LBP
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Starting torque	HST
Approvals	UL

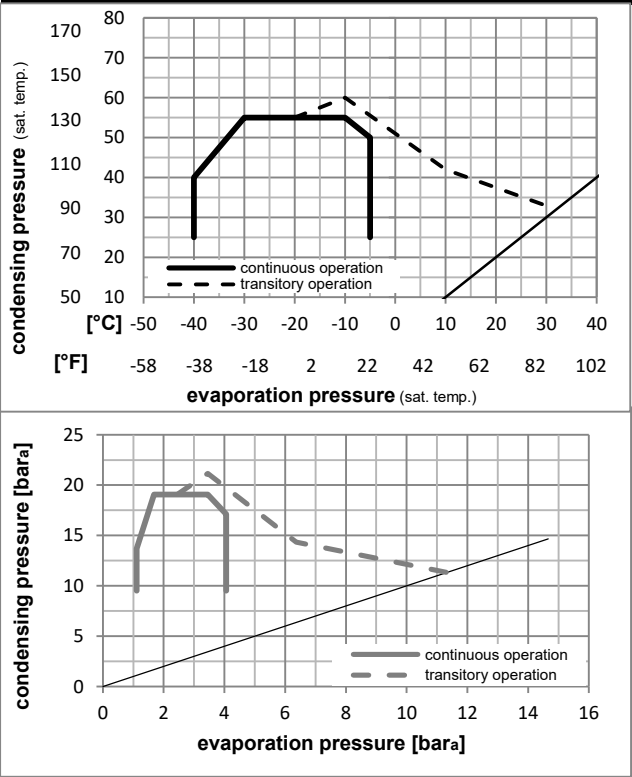
Electrical accessories / wiring diagram



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



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

a5	SC starter kit	117U8102
b	cover terminal board + clamp	117U1036
c	start capacitor (80µF)	117U5352
e	run capacitor (15µF, 6.3mm)	117-7167
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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption																																																																																			
Return gas temp.					Current consumption						Ref. mass flow																																																																																			
Liquid temp.					Cooling capacity						COP				EER				P1				I				m																																																																			
pe					pc					RGT					Tliq					[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]																																		
[°C]					-23					54					32					32					1328,5					4537					1143,4					1,57					5,36					1,35					846,9					3,88					13,45					ASHRAE LBP																								
[°F]					-10					130					90					90																																																																										
[°C]					-25					55					32					55					987,6					3373					849,9					1,22					4,18					1,05					807,6					3,70					12,30					cecomaf LBP																								
[°F]					-13					131					90					131																																																																										
[°C]					-35					40					20					40					771,1					2634					663,6					1,29					4,39					1,11					599,7					2,75					8,81					EN12900 LBP																								
[°F]					-31					104					68					104																																																																										
[°C]					-23					49					4,4					49					1111,4					3796					956,5					1,34					4,59					1,16					827,1					3,78					15,39					ARI540 LBP																								
[°F]					-10					120					40					120																																																																										
[°C]					-23					41					32					32					1513,0					5167					1302,1					1,95					6,66					1,68					776,4					3,55					15,32					AHAM LBP																								
[°F]					-10					105					90					90																																																																										
[°C]					-35					45					32					45					718,0					2452					617,9					1,18					4,03					1,01					609,1					2,79					8,05					opt																								
[°F]					-31					113					90					113																																																																										

Performance tables

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

	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	513,1	1752	441,5	0,96	3,29	0,83	533,3	2,45	5,74
cond. pressure	-35	-31	718,0	2452	617,9	1,18	4,03	1,01	609,1	2,79	8,05
pc= 45/113	-30	-22	953,5	3256	820,6	1,38	4,71	1,19	691,3	3,16	10,72
return gas temp.	-25	-13	1221,9	4173	1051,6	1,57	5,37	1,35	776,8	3,55	13,78
RGT= 32/90	-20	-4	1525,3	5209	1312,7	1,77	6,04	1,52	862,5	3,95	17,27
liquid temp	-15	5	1866,2	6373	1606,1	1,97	6,74	1,70	945,4	4,33	21,23
Tliq= 45/113	-5	23	2669,1	9116	2297,1	2,45	8,36	2,11	1090,4	5,00	30,73
[°C / °F]	-40	-40	389,0	1329	334,8	0,80	2,75	0,69	483,8	2,23	4,80
cond. pressure	-35	-31	555,9	1898	478,4	0,96	3,26	0,82	581,5	2,66	6,87
pc= 55/131	-30	-22	754,7	2577	649,5	1,09	3,73	0,94	690,5	3,16	9,36
return gas temp	-25	-13	987,6	3373	849,9	1,22	4,18	1,05	807,6	3,70	12,30
RGT= 32/90	-20	-4	1256,9	4292	1081,7	1,35	4,62	1,16	929,9	4,26	15,72
liquid temp	-15	5	1564,9	5344	1346,7	1,48	5,07	1,28	1054,2	4,84	19,67
Tliq= 55/131	-5	23	2305,9	7875	1984,5	1,78	6,07	1,53	1296,6	5,97	29,38