

Model

Designation	SCE21LNDX	220-240V/50Hz 1~	Sales code:	104H6163
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R290
Oil viscosity	32cSt	Displacement	20,95cm³ / 1,28cu.in
Oil quantity	429cm³ / 14,5fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	500g / 17,6oz		
Free gas volume comp.	1330cm³ / 45fl.oz		
Weight	13,7kg / 30,2lbs		
Motor protection	1# internal		
Winding resistance main	5Ω (at 25°C)		
Winding resistance aux	14,7Ω (at 25°C)		
Max. winding temp.	135°C / 275°F		
Max. discharge temp.	140°C / 284°F		



General - Configurations with SCE21LNDX

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

Applications with SCE21LNDX

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

Electrical data - Configurations with SCE21LNDX

	Conf. 1
Starting device type	relay
Run capacitor	10μF
Start capacitor	60μF
LRA (locked rotor amps / 4s/ U(N))	
RLA (rated load amps / 1s/ U(N))	2,5A
Cut in current (U(N))	

Model

Designation

SCE21LNDX

220-240V/50Hz 1~

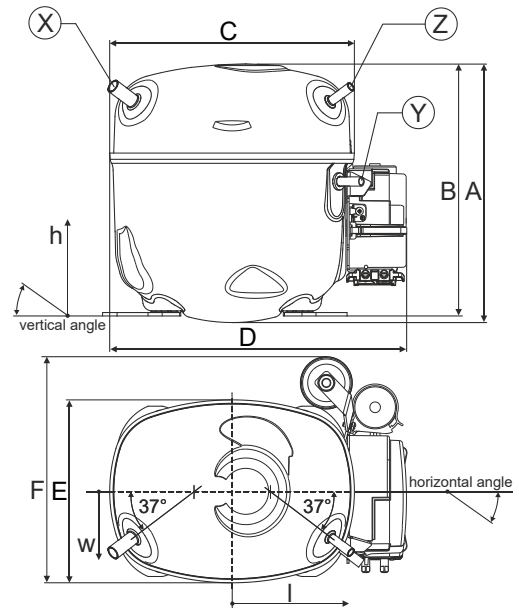
Sales code:

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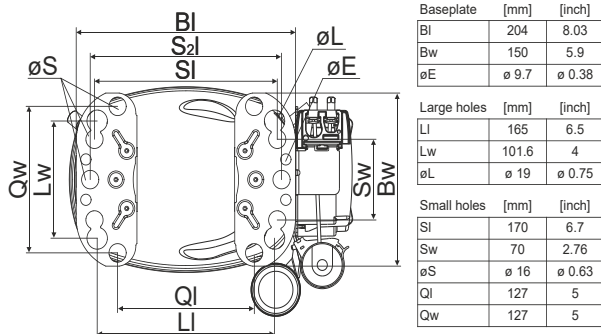
Compressor dimensions

Housing	A Height	228mm / 8,98in
	B Height	222mm / 8,74in
	C Length shell	217mm / 8,54in
	D Length w. cover	263,4mm / 10,37in
	E Width	161,1mm / 6,34in

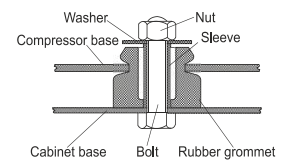
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10,11-10,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,4-0,41	øi 0,24-0,25	øi 0,24-0,25
Material	copper	copper	copper
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-104/202/54	114/118/63	106/202/53
[in]	-4,1/8/2,1	4,5/4,6/2,5	4,2/8/2,1
Straight tube l. [mm]	12	12	12
[in]	0,5	0,5	0,5



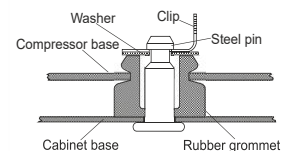
Compressor fixation



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

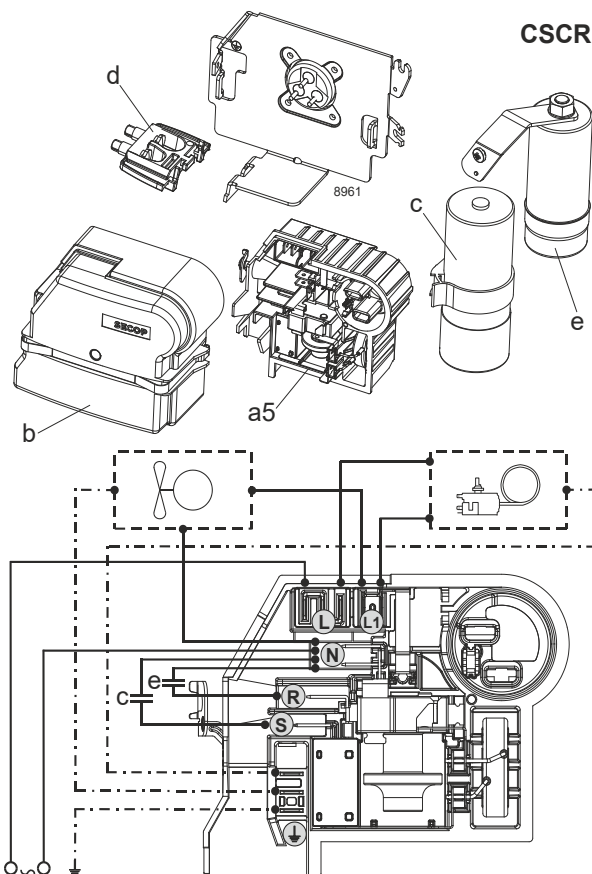
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Configuration

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Starting torque	HST
Approvals	VDE
	CCC

Electrical accessories / wiring diagram



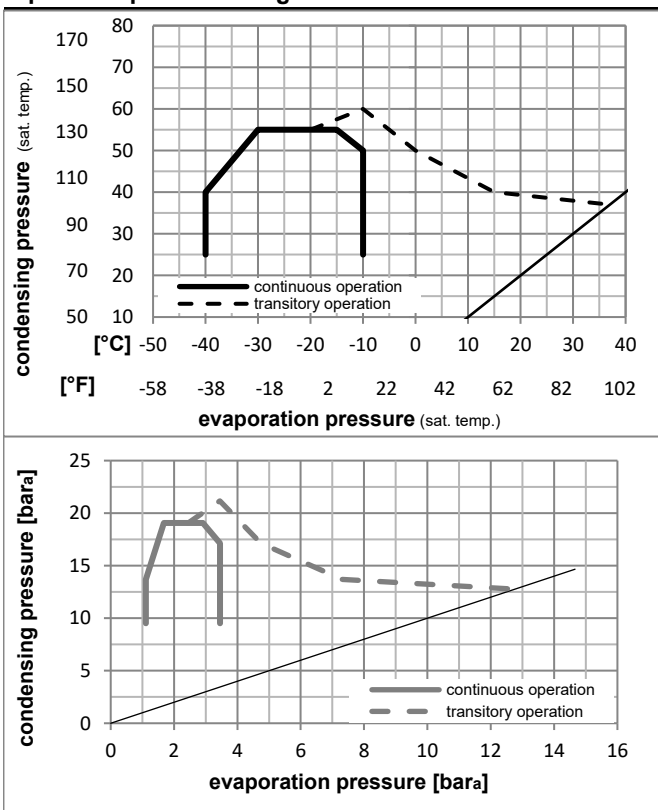
Ambient/ machine room temperatures minimum /maximum

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 (protector (f)+ holder (h)+ cover (b): incl. and pre assembl.)

a5	SC starter kit	117U8101
b	cover terminal board + clamp	117U1036
c	start capacitor (100µF)	117U5354
e	run cap (10µF, 6.3mm,c.length 280mm)	117-7166
e1	retaining clamp	117-0313
	screw M4x8mm	117-0301
d	cord relief	103N1007

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Current consumption									
Liquid temp.					Ref. mass flow									
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	1006,9	3439	866,6	1,60	5,46	1,38	629,3	3,07	10,20	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	751,4	2566	646,7	1,25	4,27	1,08	600,9	2,94	9,36	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	559,6	1911	481,6	1,31	4,48	1,13	426,5	2,17	6,39	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	822,0	2807	707,4	1,34	4,59	1,16	611,3	2,99	11,37	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	1095,6	3742	942,9	1,89	6,47	1,63	578,5	2,84	11,09	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	526,8	1799	453,4	1,22	4,17	1,05	431,4	2,19	5,90	opt
[°F]	-31	113	90	113										

Performance tables

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

	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	380,7	1300	327,6	1,04		3,55	0,89		366,2		1,93		4,26	
cond. pressure	-35	-31	526,8	1799	453,4	1,22		4,17	1,05		431,4		2,19		5,90	
pc= 45/113	-30	-22	695,8	2376	598,8	1,39		4,75	1,20		500,4		2,49		7,82	
return gas temp.	-25	-13	889,3	3037	765,3	1,55		5,31	1,34		572,4		2,81		10,03	
RGT= 32/90	-20	-4	1108,9	3787	954,3	1,71		5,86	1,48		646,7		3,15		12,56	
liquid temp	-15	5	1356,3	4632	1167,3	1,88		6,41	1,62		722,4		3,51		15,43	
Tliq= 45/113	-10	14	1633,2	5578	1405,5	2,04		6,98	1,76		798,6		3,88		18,68	
[°C / °F]	-40	-40	288,1	984	247,9	0,80		2,73	0,69		360,1		1,90		3,55	
cond. pressure	-35	-31	422,7	1443	363,8	0,97		3,33	0,84		433,7		2,20		5,23	
pc= 55/131	-30	-22	576,6	1969	496,2	1,12		3,83	0,97		514,2		2,55		7,15	
return gas temp	-25	-13	751,4	2566	646,7	1,25		4,27	1,08		600,9		2,94		9,36	
RGT= 32/90	-20	-4	948,8	3240	816,5	1,37		4,68	1,18		692,9		3,37		11,87	
liquid temp	-15	5	1170,4	3997	1007,2	1,48		5,06	1,28		789,4		3,83		14,71	
Tliq= 55/131	-10	14	1417,8	4842	1220,2	1,59		5,44	1,37		889,6		4,32		17,93	