Model
SCE21LNDX

Sales code:
104H6163

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**500g / 17.64oz**
Weight	**13.70 kg / 30.20lbs**
Displacement	**20.95 cm3 / 1.28cu.in**
Compressors on pallet	**64**



General – Configurations With SCE21LNDX

–	**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
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

- Starter kit(relay), cover and cord relief are included and pre-assembled.
- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

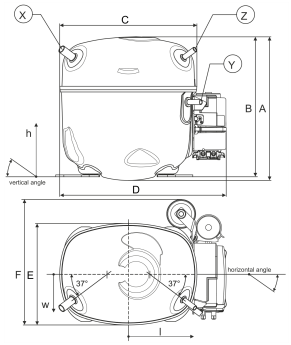
Oil type	**POE**	Winding resistance main	**5 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**14.7 Ohm**
Oil quantity	**429 cm3 / 14.51fl.oz**	Max. winding temp.	**135 °C**
Free gas volume comp.	**1,330 cm3 / 44.97fl.oz**	Max. discharge temp.	**140°C / 284°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

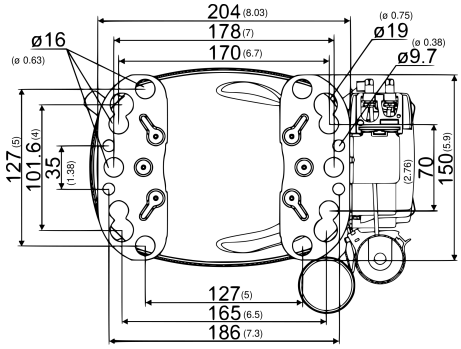
A Height	**228mm / 8.98in**
B Height	**222mm / 8.74in**
C Length shell	**217mm / 8.54in**
D Length w. cover	**263.4mm / 10.37in**
E Width	**161.1mm / 6.34in**

Find 3D Model here



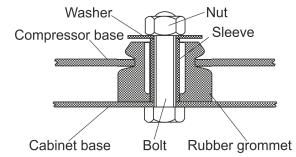
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	36°	0°	36°
Position l/h/w [mm]	-105/202/54 / -4.13/7.95/2.13in	114/118/63 / 4.49/4.65/2.48in	105/202/53 / 4.13/7.95/2.09in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

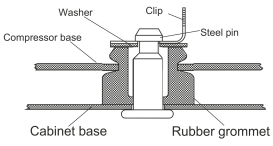


Dimensions in mm [in]

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
SCE21LNDX Configuration 1

Sales code:
104H6163

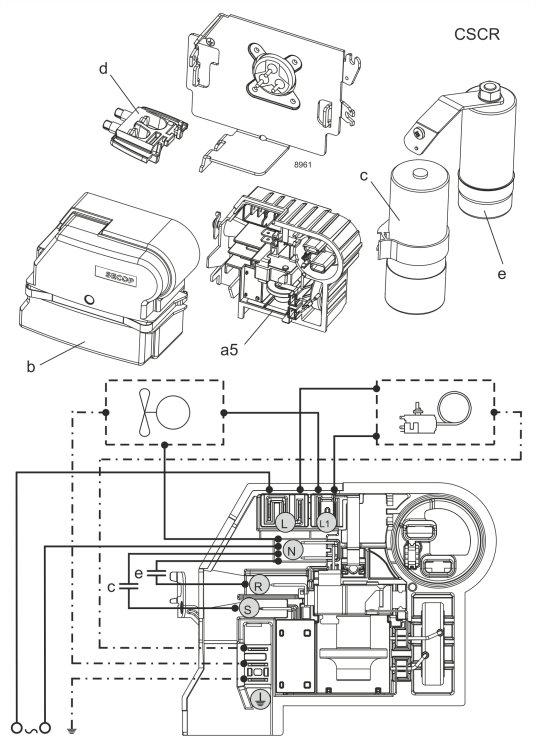
Configuration

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**
Starting device type	**relay**
Run capacitor	**10 µF**
Start capacitor	**100 µF**
RLA (rated load amps / 1s/ U(N))	**2.5 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

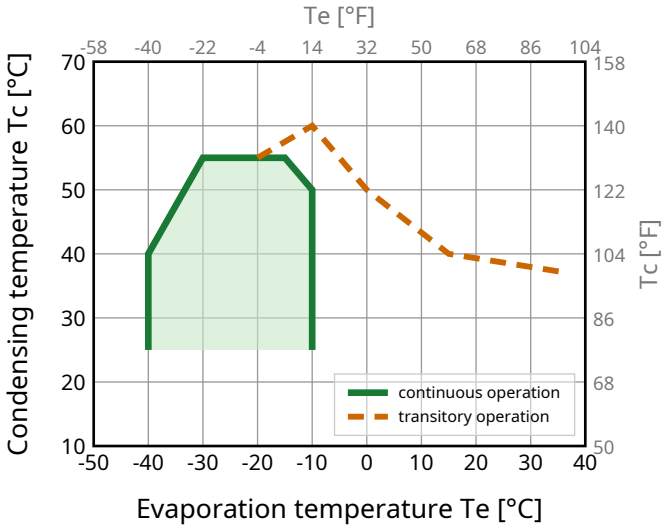
Electrical Accessories / Wiring Diagram

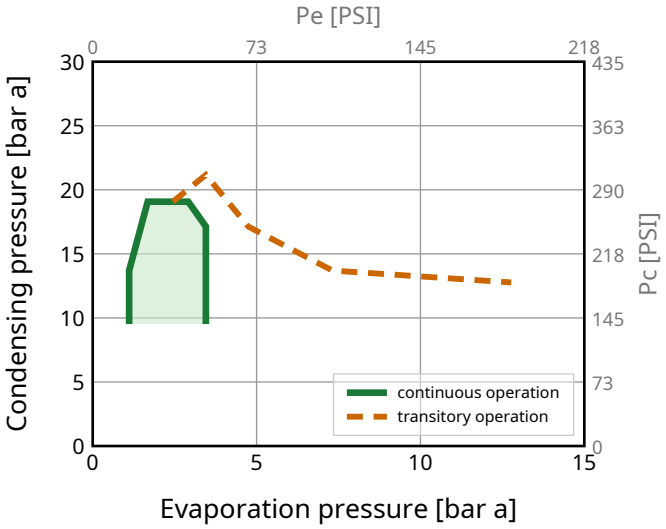


View full size

Components (Starter kit + cover + cord relief: pre-assembled)
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

Operation Pressure Range





Model Sales code:

SCE21LNDX Configuration 1 **104H6163**

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	**1012**	3453	870	**1.61**	5.48	630	3.08	10.28	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**751**	2564	646	**1.25**	4.27	601	2.94	9.42	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**560**	1910	482	**1.31**	4.48	426	2.17	6.42	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**825**	2816	710	**1.35**	4.60	612	2.99	11.46	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1098**	3748	945	**1.90**	6.47	579	2.84	11.16	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**527**	1797	453	**1.22**	4.17	431	2.19	5.94	**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	**381**	1299	327	**1.04**	3.55	366	1.93	4.28
-35	-31	**527**	1797	453	**1.22**	4.17	431	2.19	5.94
-30	-22	**696**	2374	598	**1.39**	4.75	500	2.49	7.86
-25	-13	**889**	3034	765	**1.55**	5.30	572	2.81	10.08
-20	-4	**1109**	3784	954	**1.72**	5.85	647	3.15	12.62
-15	5	**1356**	4628	1166	**1.88**	6.41	722	3.51	15.50
-10	14	**1633**	5572	1405	**2.04**	6.98	799	3.88	18.75

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

-40	-40	**288**	983	248	**0.80**	2.73	360	1.91	3.58
-35	-31	**423**	1442	364	**0.97**	3.33	434	2.20	5.26
-30	-22	**577**	1967	496	**1.12**	3.82	514	2.55	7.20
-25	-13	**751**	2564	646	**1.25**	4.27	601	2.94	9.42
-20	-4	**949**	3237	816	**1.37**	4.67	693	3.37	11.94
-15	5	**1170**	3993	1007	**1.48**	5.06	789	3.83	14.80
-10	14	**1418**	4838	1219	**1.59**	5.44	890	4.32	18.03