Model
SCD21LNDX

Sales code:
104H6166

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**550g / 19.40oz**
Weight	**14.00 kg / 30.86lbs**
Displacement	**20.95 cm3 / 1.28cu.in**
Compressors on pallet	**64**



General – Configurations With SCD21LNDX

–	**Conf. 1**
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC
Starting torque	HST
Refrigerant	R290
Application	LBP
Hot gas defrost	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor
- Compressor has indirect intake

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Compressor Design

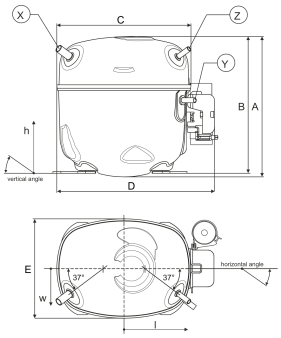
Oil type	**POE**	Winding resistance main	**4.7 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**11.9 Ohm**
Oil quantity	**429 cm3 / 14.51fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,330 cm3 / 44.97fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

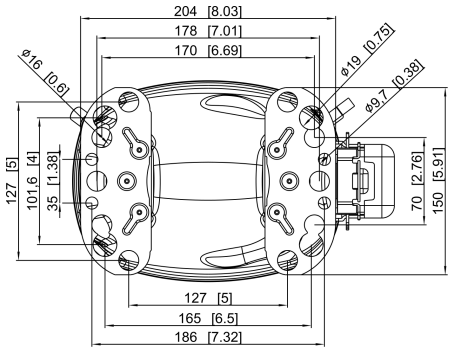
A Height	**228mm / 8.98in**
B Height	**219.9mm / 8.66in**
C Length shell	**216mm / 8.50in**
D Length w. cover	**255mm / 10.04in**
E Width	**161mm / 6.34in**

Find 3D Model here



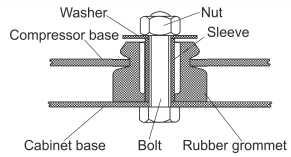
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	30°	0°	30°
Position l/h/w [mm]	105/202/54 / 4.13/7.95/2.13in	115/115/63 / 4.53/4.53/2.48in	-105/202/53 / -4.13/7.95/2.09in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

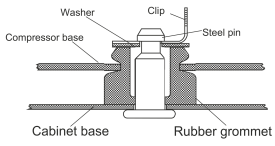


Dimensions in mm [in]

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
SCD21LNDX Configuration 1

Sales code:
104H6166

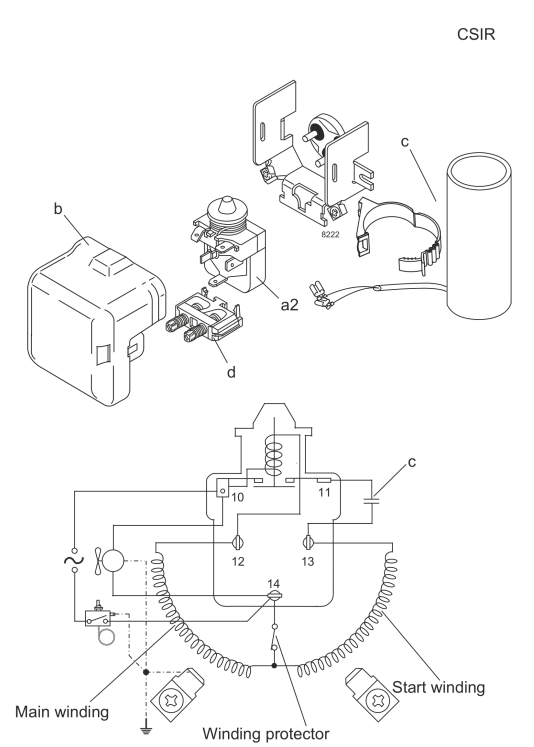
Configuration

Motor configuration	**CSIR**
Power supply (nominal)	**220-240 V/50 Hz 1~**
Refrigerant	**R290**
Application	**LBP**
Voltage range	**198-254 V**
Starting torque	**HST**
Approvals	**CCC**
Starting device type	**relay**
Run capacitor	**-/-**
Start capacitor	**125 µF**
LRA (locked rotor amps / 4s/ U(N))	**20.9 A**
RLA (rated load amps / 1s/ U(N))	**3.5 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

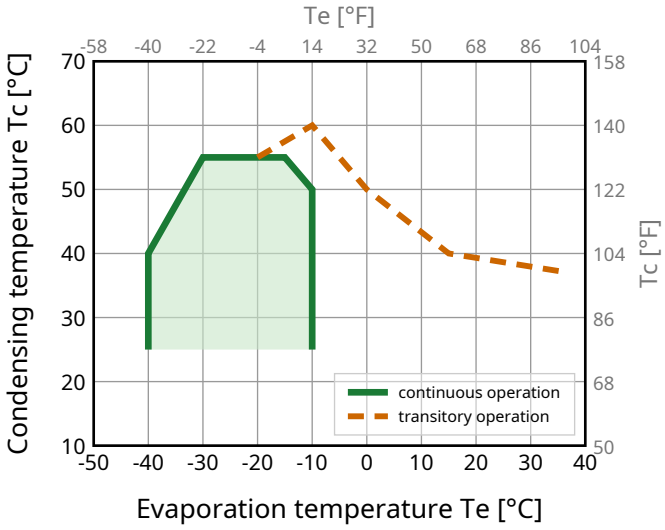
Electrical Accessories / Wiring Diagram

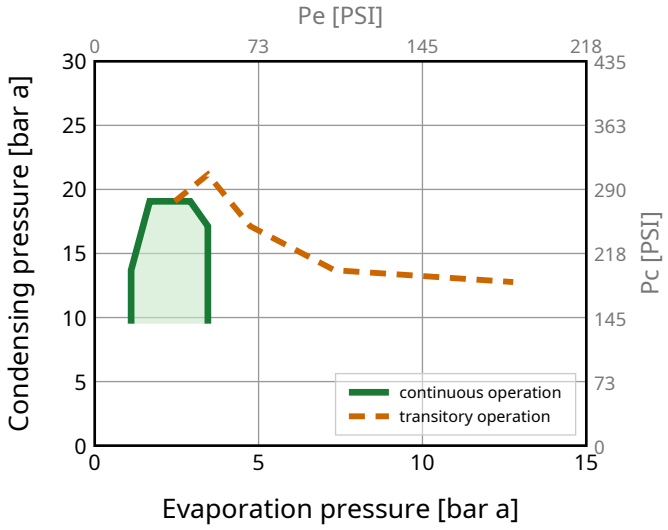


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Components
a2 current relay 117U7019
c start capacitor (125µF) 117U5012
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model Sales code:

SCD21LNDX Configuration 1 **104H6166**

Standard Conditions

R290, 220 V/50 Hz, CSIR, 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	**951**	3243	818	**1.31**	4.47	726	3.88	9.66	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**708**	2415	609	**1.02**	3.49	692	3.74	8.88	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**528**	1802	454	**1.10**	3.77	478	2.90	6.06	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**770**	2626	662	**1.11**	3.79	693	3.74	10.69	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**1009**	3443	868	**1.57**	5.36	643	3.53	10.25	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**497**	1697	428	**1.02**	3.47	489	2.94	5.61	**opt LBP**

Performance Tables

R290, 220 V/50 Hz, CSIR, 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	**359**	1224	308	**0.86**	2.94	416	2.68	4.03
-35	-31	**497**	1697	428	**1.02**	3.47	489	2.94	5.61
-30	-22	**654**	2233	563	**1.16**	3.96	564	3.22	7.39
-25	-13	**828**	2826	712	**1.29**	4.40	642	3.53	9.39
-20	-4	**1017**	3470	875	**1.40**	4.78	726	3.88	11.57
-15	5	**1219**	4159	1048	**1.49**	5.08	818	4.29	13.93
-10	14	**1433**	4889	1232	**1.56**	5.31	921	4.75	16.45

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

-40	-40	**268**	916	231	**0.64**	2.17	423	2.70	3.34
-35	-31	**398**	1357	342	**0.79**	2.70	504	2.99	4.95
-30	-22	**545**	1859	468	**0.92**	3.14	593	3.33	6.80
-25	-13	**708**	2415	609	**1.02**	3.49	692	3.74	8.88
-20	-4	**886**	3022	762	**1.10**	3.76	805	4.22	11.15
-15	5	**1077**	3673	926	**1.16**	3.94	932	4.79	13.62
-10	14	**1279**	4364	1100	**1.19**	4.06	1076	5.46	16.26