Model
SCD18LNDX

Sales code:
104H6866

Compressor Data

Refrigerant(s)	**R290**
Refr. charge - tech. limit	**550g / 19.40oz**
Weight	**14.00 kg / 30.86lbs**
Displacement	**17.69 cm3 / 1.08cu.in**
Compressors on pallet	**64**



General – Configurations With SCD18LNDX

–	**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

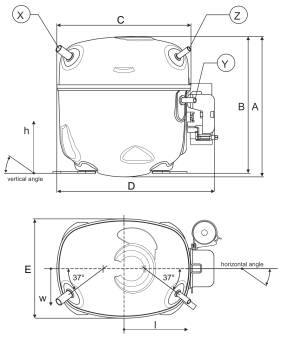
Oil type	**POE**	Winding resistance main	**5.9 Ohm**
Oil viscosity	**32cSt**	Winding resistance aux	**11.8 Ohm**
Oil quantity	**429 cm3 / 14.51fl.oz**	Max. winding temp.	**125 °C**
Free gas volume comp.	**1,330 cm3 / 44.97fl.oz**	Max. discharge temp.	**135°C / 275°F**
Motor protection	**internal**		

Compressor Dimensions

Housing

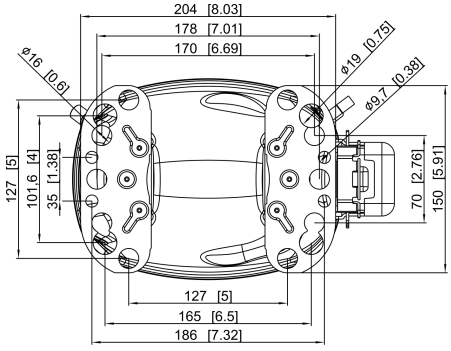
A Height	**228mm / 8.98in**
B Height	**219.9mm / 8.66in**
C Length shell	**216mm / 8.50in**
D Length w. cover	**255mm / 10.04in**
E Width	**161mm / 6.34in**

Find 3D Model here



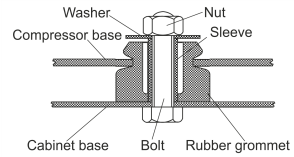
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	37°
Vertical angle ±2°	30°	0°	30°
Position l/h/w [mm]	105/202/54 / 4.13/7.95/2.13in	115/115/63 / 4.53/4.53/2.48in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

Mounting Accessories

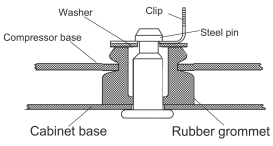


Dimensions in mm [in]

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
SCD18LNDX Configuration 1

Sales code:
104H6866

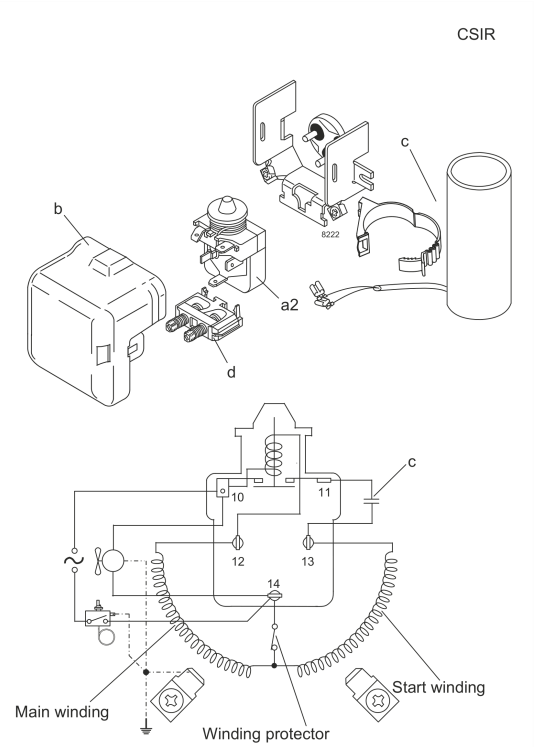
Configuration

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	**80 µF**
LRA (locked rotor amps / 4s/ U(N))	**15.8 A**
RLA (rated load amps / 1s/ U(N))	**2.9 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

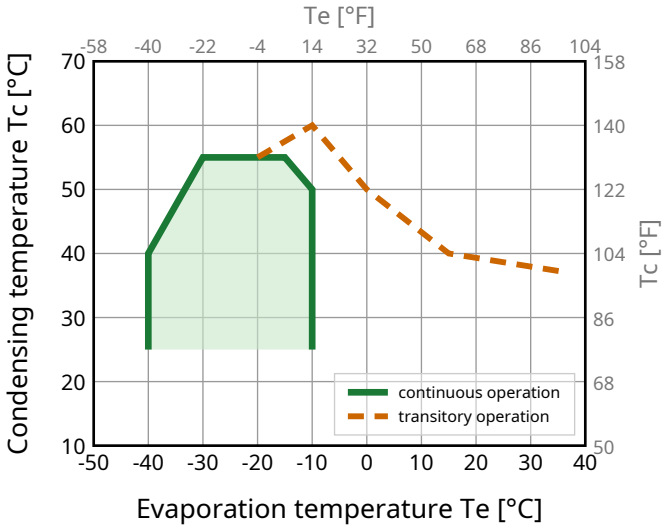
Electrical Accessories / Wiring Diagram

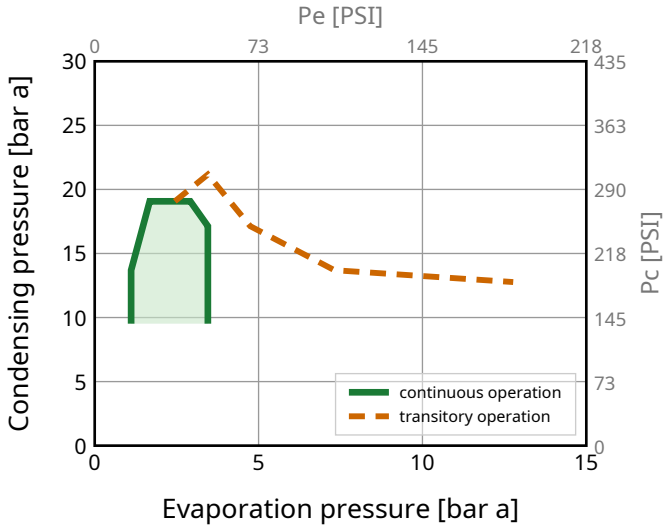


View full size

Components
a2 relay 117U7055
c start capacitor (80µF, 6.3mm) 117U5007
d cord relief 103N1004
b plastic cover 103N2009

Operation Pressure Range





Model Sales code:

SCD18LNDX Configuration 1 **104H6866**

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	**794**	2709	683	**1.34**	4.57	594	3.33	8.07	**ASHRAE LBP**
-25 -13	55 131	32 89.6	55 131	**584**	1993	502	**1.03**	3.52	565	3.22	7.32	**CECOMAF LBP**
-35 -31	40 104	20 68	40 104	**430**	1466	370	**1.09**	3.72	394	2.60	4.93	**EN12900 LBP**
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	**654**	2232	563	**1.14**	3.88	575	3.26	9.08	**ARI540 LBP**
-23.3 -10	40.6 105.1	32.2 90	32.2 90	**879**	3000	756	**1.62**	5.54	541	3.13	8.93	**AHAM LBP**
-35 -31	45 113	32 89.6	45 113	**398**	1356	342	**1.00**	3.41	398	2.61	4.48	**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	**276**	941	237	**0.84**	2.87	328	2.39	3.10
-35	-31	**398**	1356	342	**1.00**	3.41	398	2.61	4.48
-30	-22	**541**	1845	465	**1.16**	3.94	468	2.86	6.11
-25	-13	**705**	2406	606	**1.31**	4.48	537	3.12	7.99
-20	-4	**890**	3038	766	**1.47**	5.02	606	3.39	10.13
-15	5	**1097**	3742	943	**1.63**	5.56	673	3.66	12.53
-10	14	**1324**	4516	1138	**1.79**	6.11	740	3.94	15.20

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

-40	-40	**198**	676	170	**0.64**	2.18	310	2.34	2.46
-35	-31	**306**	1044	263	**0.78**	2.65	393	2.60	3.81
-30	-22	**435**	1483	374	**0.91**	3.10	478	2.90	5.43
-25	-13	**584**	1993	502	**1.03**	3.52	565	3.22	7.32
-20	-4	**754**	2572	648	**1.15**	3.93	654	3.58	9.49
-15	5	**944**	3220	812	**1.27**	4.33	743	3.96	11.94
-10	14	**1154**	3937	992	**1.39**	4.73	833	4.35	14.68