

Model

SC21CNLX.2

Sales code:

104H8177

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	14.10 kg / 31.09lbs
Displacement	20.95 cm3 / 1.28cu.in
Compressors on pallet	80



General – Configurations With SC21CNLX.2

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	UL
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

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Compressor Design

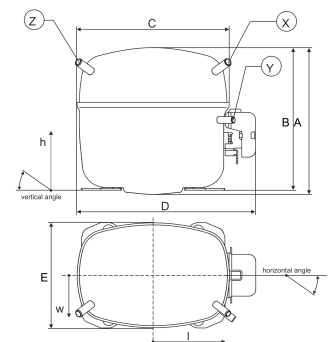
Oil type	POE	Winding resistance main	2.7 Ohm
Oil viscosity	32cSt	Winding resistance aux	9.5 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm ³ / 47.68fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

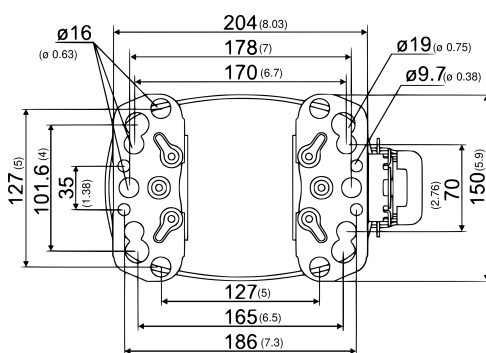
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



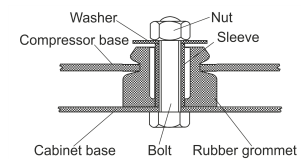
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

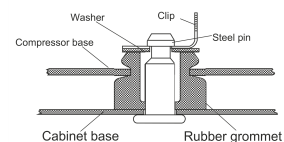


Dimensions in mm [in]

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

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Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R290
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	27 A
RLA (rated load amps / 1s/ U(N))	4.6 A

Ambient/ machine room temperatures minimum /maximum

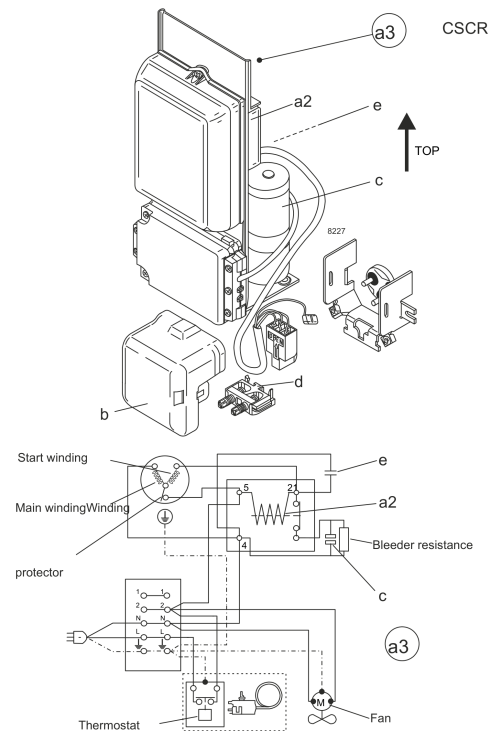
Ambient temperature range: 10 - 43°C / 50 - 109°F

Machine room temp. compressor: 10 - 48°C / 50 - 118°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a3 SC starter kit 117-7066

b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a2 potential relay (RVA 2GR134) 117-7445

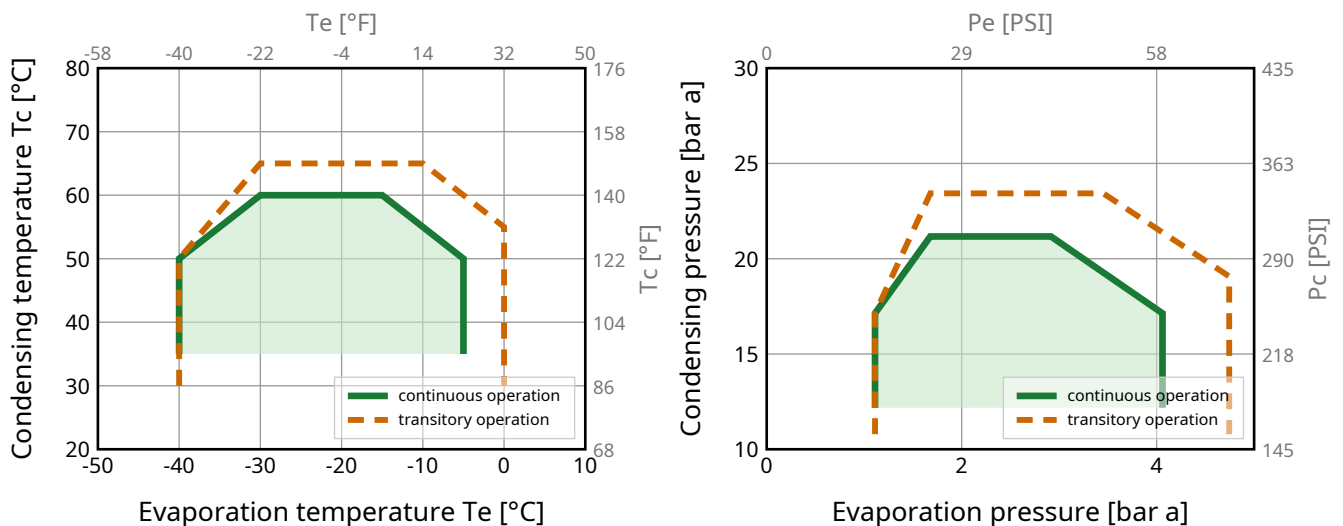
e run capacitor (10 μ F, 6.3mm) 117-7121

c start capacitor (80 μ F) 117U5373

b plastic cover 103N2008

d cord relief 103N1004

Operation Pressure Range



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Standard Conditions

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

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	m	
[°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	1142	3897	982	1.46	4.96	785	3.86	11.60	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	856	2921	736	1.13	3.85	758	3.75	10.73	CECOMAF LBP
-35 -31	40 104	20 68	40 104	645	2202	555	1.09	3.71	593	2.78	7.41	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	929	3169	799	1.21	4.11	770	3.70	12.90	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1202	4102	1034	1.62	5.52	743	3.42	12.21	AHAM LBP
-35 -31	45 113	32 89.6	45 113	604	2059	519	1.05	3.58	576	2.85	6.80	opt LBP

Performance Tables

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

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	390	1330	335	0.91	3.09	431	2.53	4.38
-35	-31	604	2059	519	1.05	3.58	576	2.85	6.80
-30	-22	802	2736	690	1.19	4.06	674	3.17	9.06
-25	-13	1001	3415	861	1.35	4.62	740	3.46	11.34
-20	-4	1215	4147	1045	1.54	5.25	789	3.72	13.83
-15	5	1461	4984	1256	1.74	5.95	838	3.95	16.69
-10	14	1753	5981	1507	1.94	6.63	902	4.14	20.13
-5	23	2106	7187	1812	2.12	7.22	995	4.29	24.33

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

-40	-40	219	748	188	0.67	2.29	326	2.58	2.72
-35	-31	458	1561	393	0.88	3.01	519	3.00	5.70
-30	-22	665	2268	572	1.01	3.45	657	3.40	8.30
-25	-13	856	2921	736	1.13	3.85	758	3.75	10.73
-20	-4	1047	3572	900	1.25	4.28	836	4.07	13.18
-15	5	1252	4274	1077	1.38	4.72	906	4.33	15.84
-10	14	1488	5078	1280	1.51	5.16	985	4.54	18.93
-5	23	1770	6038	1522	1.63	5.55	1087	4.68	22.65