

Model

SC18CNX.2

Sales code:

104H8874

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	14.00 kg / 30.86lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CNX.2

-	Conf. 1
Motor configuration	CSIR
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
Long interval pull down	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

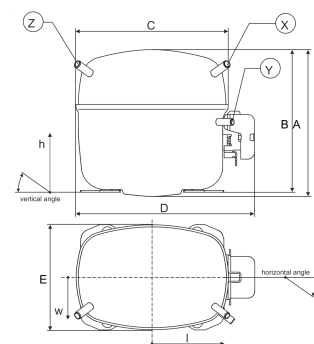
Oil type	POE	Winding resistance main	4.000 Ohm
Oil viscosity	22cSt	Winding resistance aux	12.47 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm3 / 47.68fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

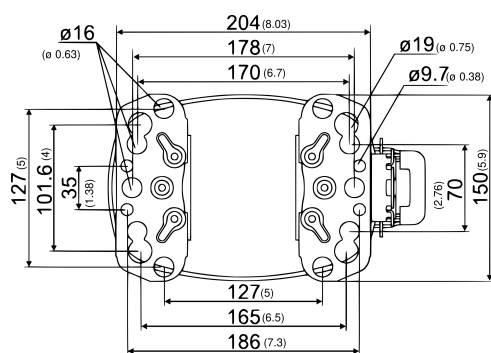
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



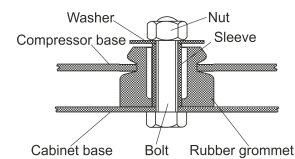
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

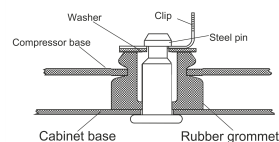


Dimensions in mm [in]

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

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	VDE, CCC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	19.5 A
RLA (rated load amps / 1s/ U(N))	3.8 A
Cut in current (U(N))	19.5 A

Ambient/ machine room temperatures minimum /maximum

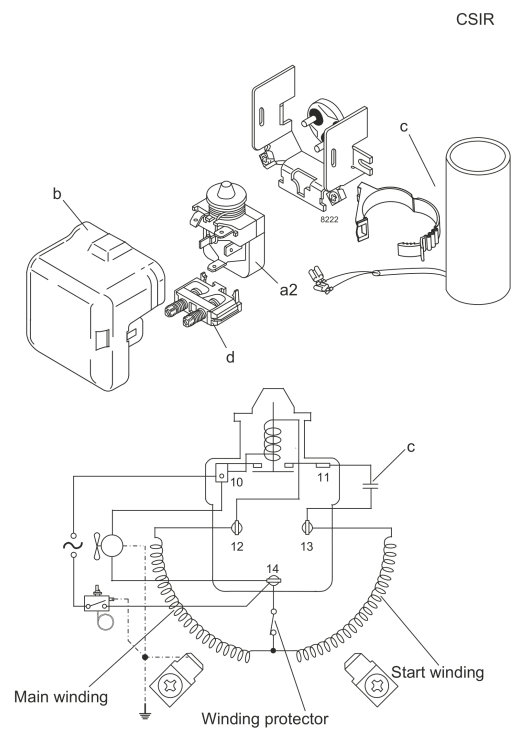
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 relay 117U7011

c start capacitor (80µF) 117U5017

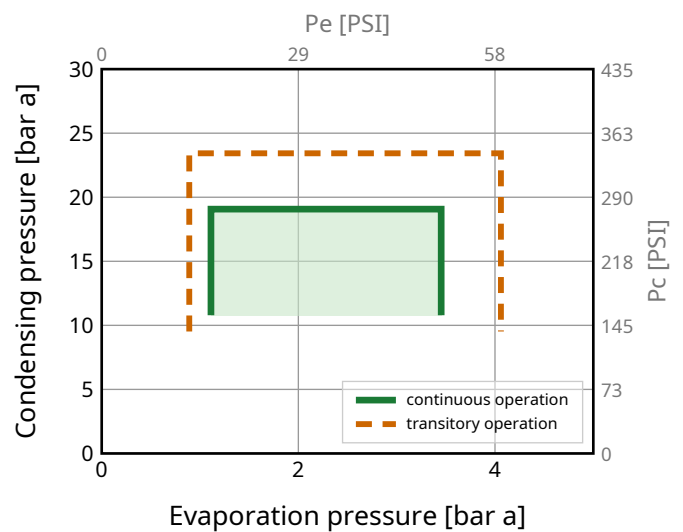
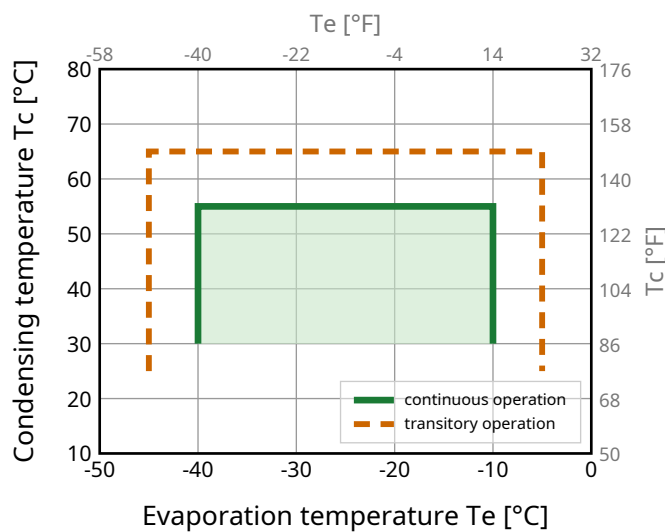
d cord relief 103N1004

b plastic cover 103N2009

Alternative components

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R290, 220 V/50 Hz, CSIR, 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	800	2729	688	1.31	4.47	610	3.88	8.12	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	587	2003	505	1.00	3.41	588	3.82	7.36	CECOMAF LBP
-35 -31	40 104	20 68	40 104	430	1467	370	1.01	3.45	425	3.20	4.93	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	644	2196	553	1.12	3.81	577	3.66	8.94	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	850	2902	731	1.57	5.37	540	3.54	8.64	AHAM LBP
-25 -13	45 113	32 89.6	45 113	689	2352	593	1.27	4.35	541	3.52	7.81	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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	244	833	210	0.72	2.47	337	2.96	2.75
-35	-31	384	1309	330	0.92	3.14	417	3.15	4.32
-30	-22	531	1811	456	1.10	3.74	484	3.34	6.00
-25	-13	689	2352	593	1.27	4.35	541	3.52	7.81
-20	-4	864	2946	743	1.46	4.98	591	3.69	9.82
-15	5	1057	3606	909	1.66	5.66	637	3.85	12.07
-10	14	1273	4345	1095	1.87	6.37	682	4.01	14.62

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

-40	-40	136	462	117	0.47	1.59	290	3.03	1.68
-35	-31	275	938	236	0.68	2.32	404	3.30	3.42
-30	-22	424	1447	365	0.84	2.88	502	3.57	5.30
-25	-13	587	2003	505	1.00	3.41	588	3.82	7.36
-20	-4	768	2619	660	1.16	3.95	663	4.07	9.66
-15	5	970	3309	834	1.32	4.52	732	4.31	12.26
-10	14	1197	4085	1030	1.50	5.12	798	4.55	15.22