

Model

SC12CNX.2

Sales code:

104H8266

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	12.87 cm3 / 0.79cu.in
Compressors on pallet	80



General – Configurations With SC12CNX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, VDE
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

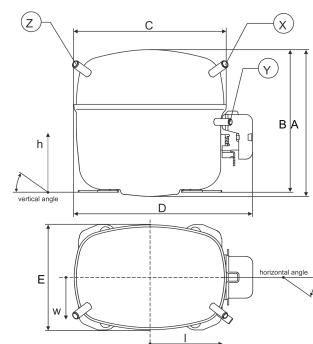
Oil type	POE	Winding resistance main	6.9 Ohm
Oil viscosity	22cSt	Winding resistance aux	11 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm3 / 47.68fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

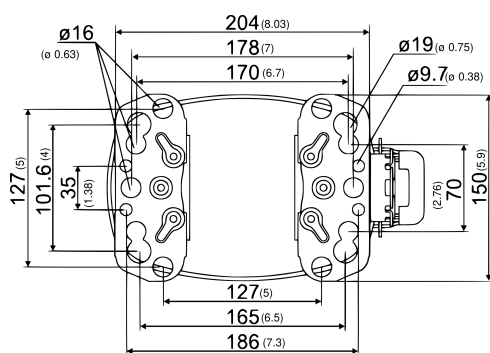
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



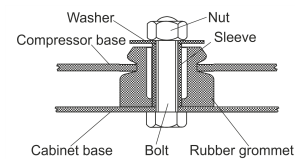
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

Mounting Accessories

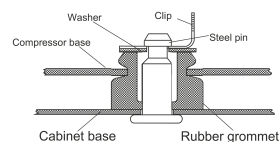


Dimensions in mm [in]

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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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, VDE
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	23.4 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	23.4 A

Ambient/ machine room temperatures minimum /maximum

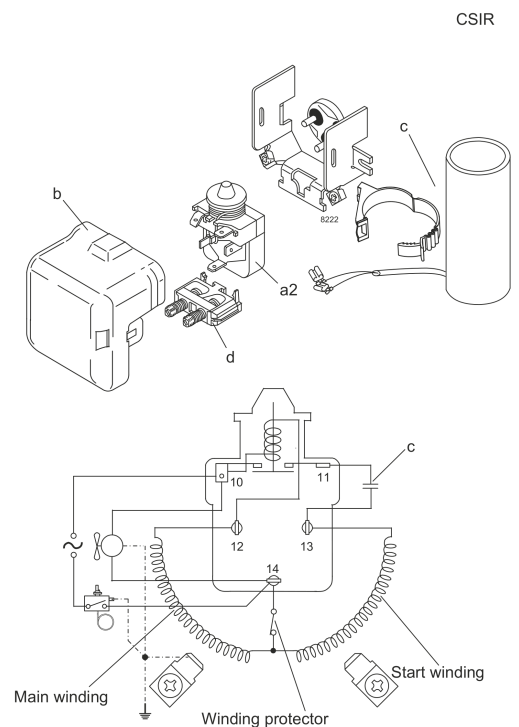
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

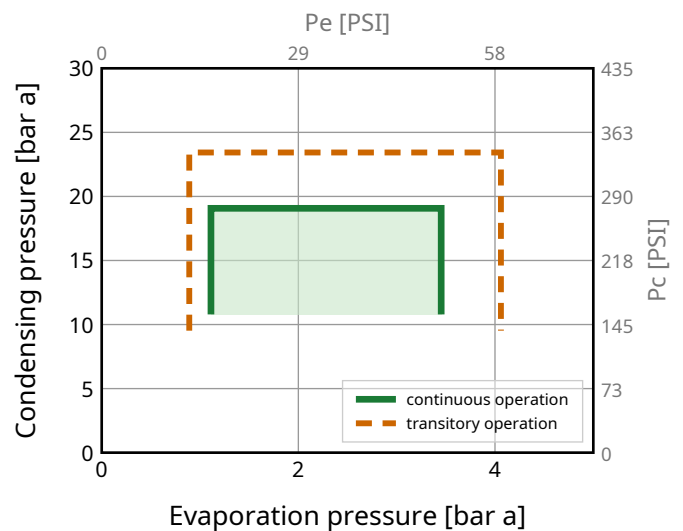
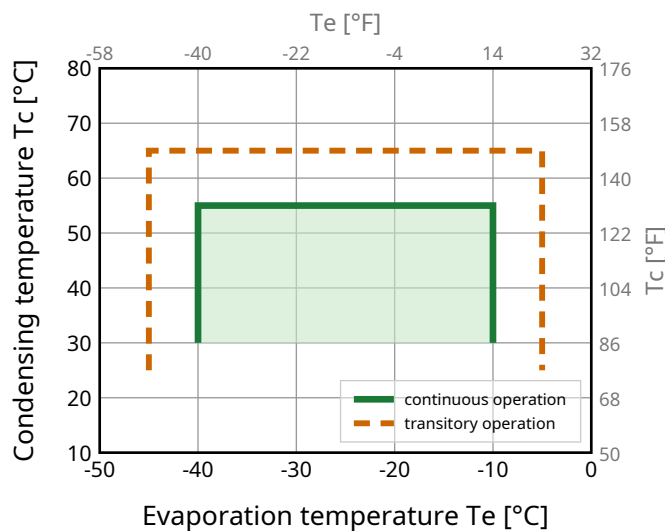
a2 relay 117U7003

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

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	493	1681	424	1.20	4.10	410	2.43	5.00	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	359	1226	309	0.91	3.12	394	2.37	4.50	CECOMAF LBP
-35 -31	40 104	20 68	40 104	280	954	240	0.96	3.26	292	2.06	3.21	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	417	1421	358	1.04	3.54	402	2.42	5.78	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	571	1949	491	1.50	5.14	380	2.35	5.80	AHAM LBP
-35 -31	45 113	32 89.6	45 113	258	881	222	0.86	2.95	298	2.09	2.91	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	186	636	160	0.72	2.47	257	1.99	2.10
-35	-31	258	881	222	0.86	2.95	298	2.09	2.91
-30	-22	346	1182	298	1.02	3.49	339	2.21	3.91
-25	-13	452	1544	389	1.20	4.08	379	2.35	5.13
-20	-4	578	1973	497	1.38	4.71	419	2.50	6.58
-15	5	725	2474	624	1.57	5.37	460	2.67	8.29
-10	14	895	3052	769	1.78	6.08	502	2.86	10.27

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

-40	-40	115	393	99	0.49	1.66	236	1.94	1.43
-35	-31	184	626	158	0.63	2.15	291	2.07	2.29
-30	-22	264	902	227	0.77	2.63	343	2.21	3.30
-25	-13	359	1226	309	0.91	3.12	394	2.37	4.50
-20	-4	470	1603	404	1.06	3.62	443	2.55	5.91
-15	5	598	2039	514	1.22	4.16	490	2.75	7.56
-10	14	744	2538	640	1.38	4.72	538	2.96	9.46