

Model

SC15CNX.2

Sales code:

104H8566

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.10 kg / 28.88lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CNX.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

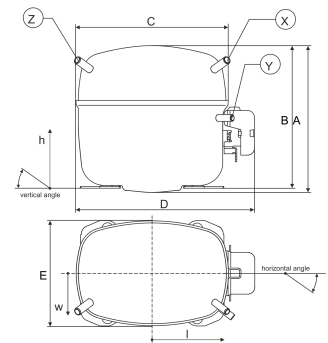
Oil type	POE	Winding resistance main	5.13 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.51 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,410 cm³ / 47.68fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

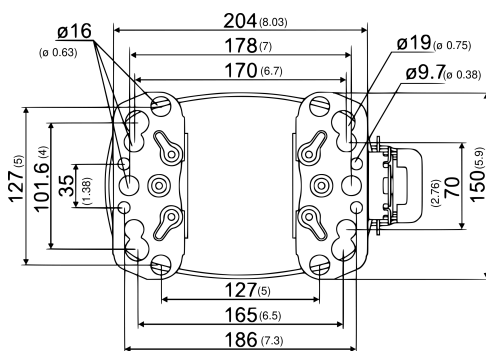
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

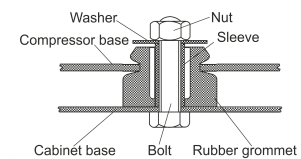


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8.11–8.29 / 0.32–0.33in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in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

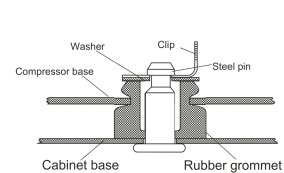
Mounting Accessories



Bolt joint



Snap-on



Dimensions in mm [in]

	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	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))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

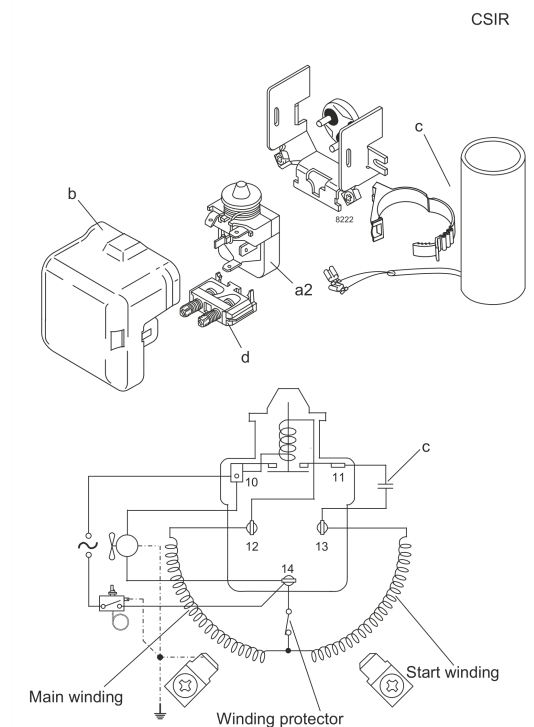
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 117U7005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

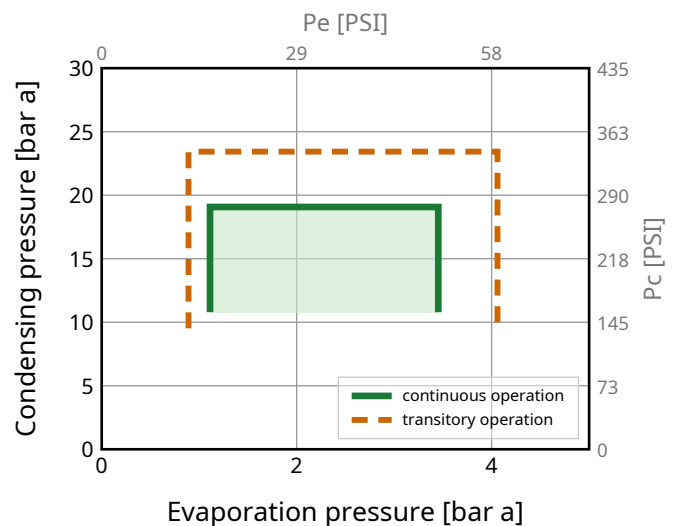
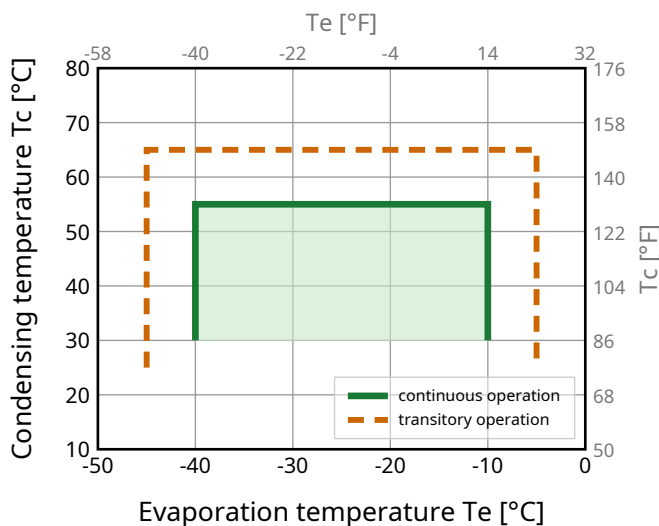
Alternative components
a2 relay 117U7005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

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	626	2136	538	1.32	4.52	473	2.95	6.36	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	464	1584	399	1.02	3.47	457	2.89	5.82	CECOMAF LBP
-35 -31	40 104	20 68	40 104	352	1202	303	1.00	3.40	354	2.53	4.04	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	517	1764	445	1.11	3.80	464	2.89	7.18	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	701	2393	603	1.53	5.21	460	2.83	7.12	AHAM LBP
-35 -31	45 113	32 89.6	45 113	332	1133	286	0.95	3.23	351	2.52	3.74	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	252	859	217	0.82	2.79	308	2.41	2.83
-35	-31	332	1133	286	0.95	3.23	351	2.52	3.74
-30	-22	434	1479	373	1.09	3.73	396	2.65	4.90
-25	-13	560	1910	481	1.26	4.29	445	2.80	6.34
-20	-4	714	2436	614	1.44	4.91	497	2.98	8.12
-15	5	900	3069	774	1.63	5.56	552	3.18	10.28
-10	14	1120	3821	963	1.83	6.26	610	3.41	12.86

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

-40	-40	220	749	189	0.67	2.27	330	2.38	2.73
-35	-31	281	959	242	0.77	2.62	366	2.53	3.50
-30	-22	362	1234	311	0.89	3.02	408	2.70	4.52
-25	-13	464	1584	399	1.02	3.47	457	2.89	5.82
-20	-4	592	2021	509	1.16	3.95	512	3.11	7.46
-15	5	749	2556	644	1.30	4.45	574	3.35	9.48
-10	14	938	3202	807	1.46	4.98	643	3.61	11.93