

Model

SC10CNX.2

Sales code:

104H7070

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.20 kg / 29.10lbs
Displacement	10.29 cm3 / 0.63cu.in
Compressors on pallet	80



General – Configurations With SC10CNX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	95-135 V
Approvals	UL
Starting torque	HST
Refrigerant	R290
Application	LBP+MBP
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

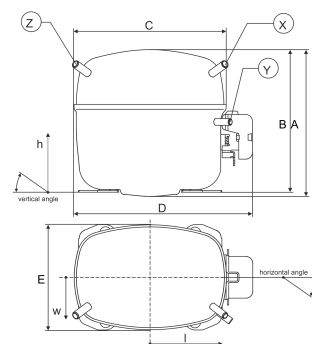
Oil type	POE	Winding resistance main	1.000 Ohm
Oil viscosity	22cSt	Winding resistance aux	4.20 Ohm
Oil quantity	500 / 16.91fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	120°C / 248°F
Motor protection	internal		

Compressor Dimensions

Housing

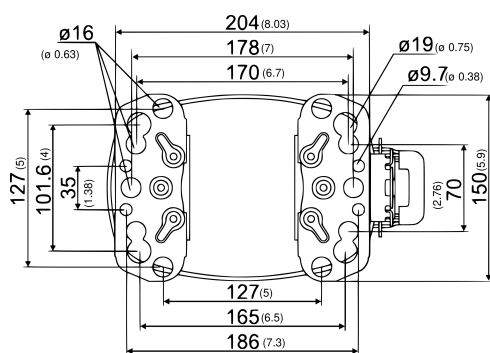
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

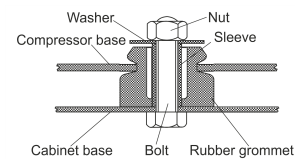


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

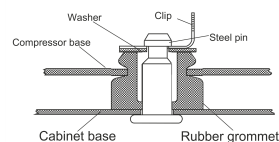
Mounting Accessories



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)	115 V/60 Hz 1~
Refrigerant	R290
Application	LBP+MBP
Voltage range	95-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	240 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

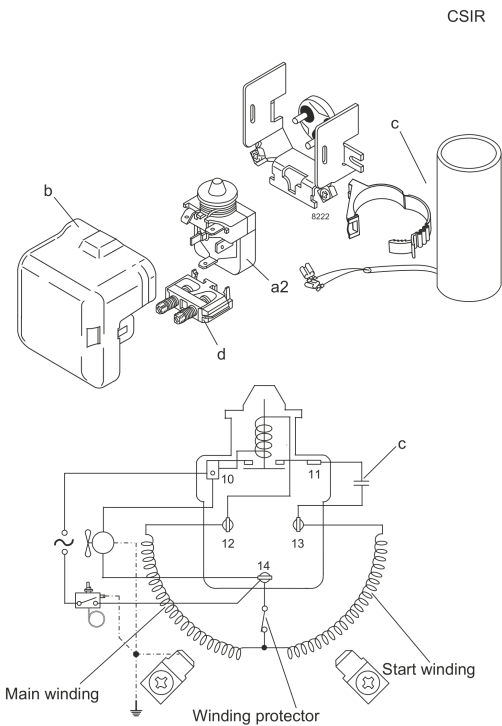
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

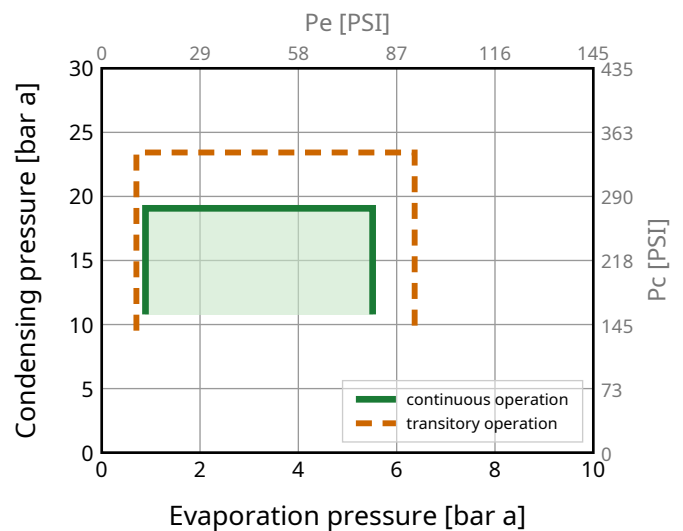
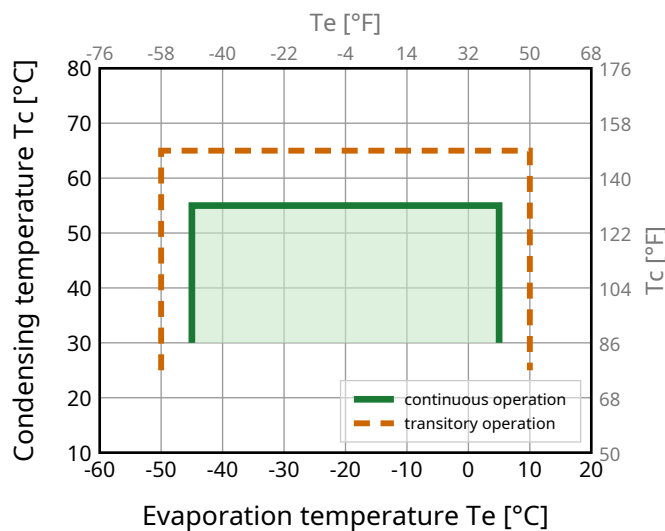
a2 relay 117U7020

c start capacitor (240µF) 117U5023

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R290, 115 V/60 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	450	1534	387	1.17	4.01	383	5.67	4.57	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	320	1091	275	0.87	2.98	367	5.60	4.01	CECOMAF LBP
-35 -31	40 104	20 68	40 104	241	823	207	0.85	2.90	284	5.25	2.77	EN12900 LBP
-6.7 20	54.4 129.9	35 95	46.1 115	967	3299	831	1.87	6.38	517	6.43	11.07	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	749	2556	644	1.50	5.13	498	6.29	9.53	CECOMAF MBP
-10 14	45 113	20 68	45 113	856	2920	736	1.84	6.27	466	6.04	10.53	EN12900 MBP

Performance Tables

R290, 115 V/60 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]
-45	-49	53	181	46	0.33	1.13	160	4.95	0.60
-40	-40	125	426	107	0.58	1.97	217	5.08	1.40
-30	-22	308	1049	264	0.97	3.31	318	5.37	3.48
-20	-4	557	1900	479	1.39	4.74	401	5.69	6.33
-10	14	890	3035	765	1.91	6.52	466	6.04	10.22
0	32	1323	4514	1138	2.60	8.86	509	6.43	15.38
5	41	1583	5400	1361	3.03	10.34	522	6.63	18.55

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

-45	-49	-	-	-	-	-	-	4.80	-
-40	-40	44	150	38	0.23	0.78	191	4.99	0.55
-30	-22	214	729	184	0.68	2.33	313	5.39	2.67
-20	-4	443	1512	381	1.07	3.64	416	5.83	5.58
-10	14	749	2556	644	1.50	5.13	498	6.29	9.53
0	32	1149	3920	988	2.06	7.03	558	6.79	14.81
5	41	1389	4740	1195	2.40	8.20	578	7.05	18.07