

Model

SC15MNX

Sales code:

104H8575

Compressor Data

Refrigerant(s)	R290
Refr. charge - tech. limit	150g / 5.29oz
Weight	13.50 kg / 29.76lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15MNX

-	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, EAC
Starting torque	HST
Refrigerant	R290
Application	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	3.700 Ohm
Oil viscosity	22cSt	Winding resistance aux	13.70 Ohm
Oil quantity	554 / 18.73fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.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

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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

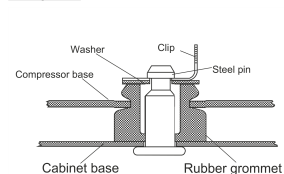
Mounting Accessories



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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Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R290
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, CCC, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	20.43 A
RLA (rated load amps / 1s/ U(N))	3.9 A
Cut in current (U(N))	20.43 A

Ambient/ machine room temperatures minimum /maximum

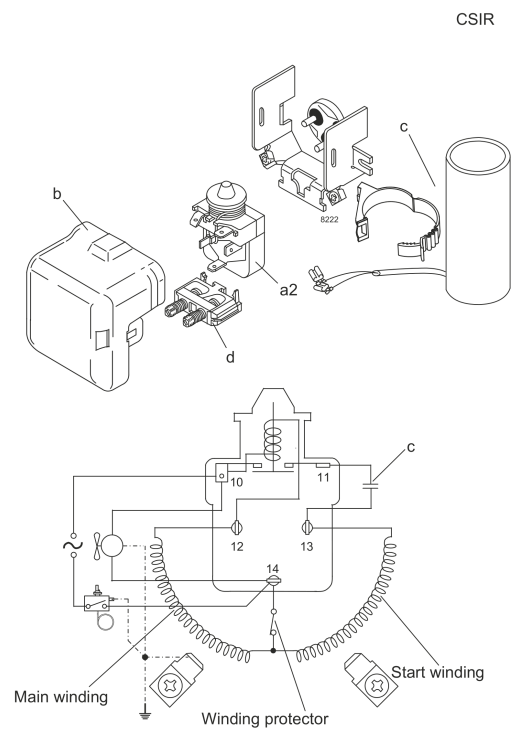
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

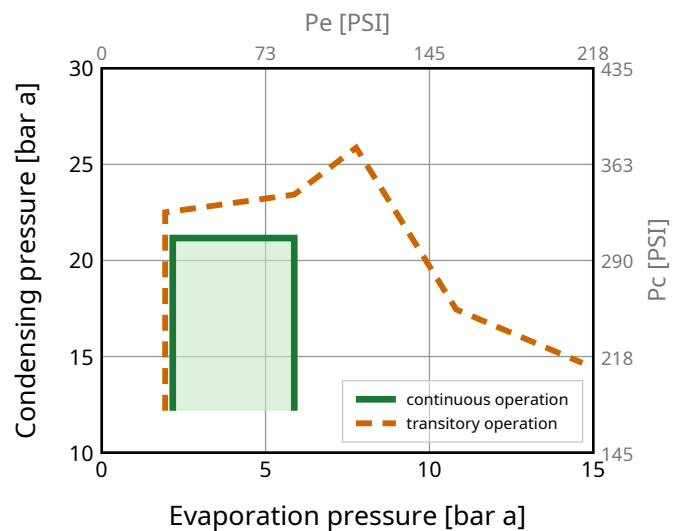
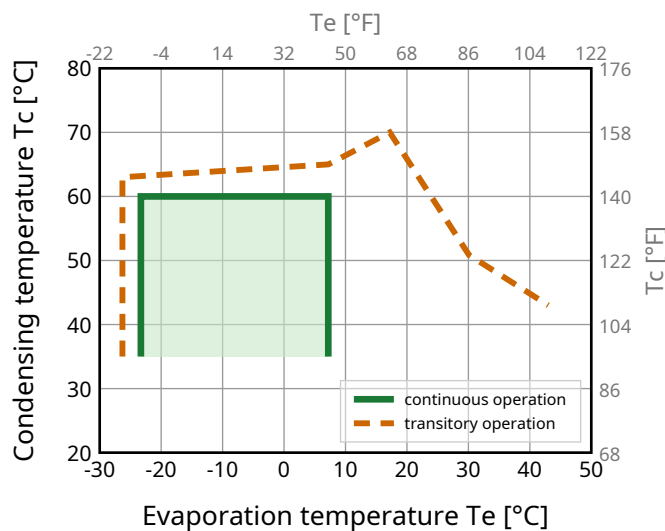
a2 current relay 117U7019

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]	
-6.7 20	54.4 129.9	35 95	46.1 115	1188	4053	1022	1.75	5.96	679	3.96	13.60	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	950	3240	817	1.45	4.96	654	3.84	12.08	CECOMAF MBP
-10 14	45 113	20 68	45 113	1048	3576	901	1.77	6.05	592	3.65	12.90	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1114	3802	958	1.74	5.95	639	3.83	14.49	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1090	3717	937	1.84	6.28	592	3.65	12.51	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	677	2311	582	1.60	5.45	424	3.21	6.88	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]
-23.3	-10	606	2069	522	1.43	4.88	424	3.21	6.88
-20	-4	710	2422	611	1.47	5.02	483	3.33	8.08
-15	5	886	3025	762	1.62	5.52	548	3.50	10.13
-10	14	1090	3717	937	1.84	6.28	592	3.65	12.51
-5	23	1322	4510	1137	2.13	7.26	621	3.80	15.27
0	32	1586	5411	1364	2.46	8.38	646	3.93	18.44
5	41	1885	6431	1621	2.81	9.57	672	4.05	22.09
7.2	45	2028	6920	1744	2.96	10.09	686	4.10	23.86

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

-23.3	-10	554	1892	477	1.22	4.16	455	3.25	6.96
-20	-4	640	2184	550	1.23	4.19	521	3.40	8.05
-15	5	785	2677	675	1.31	4.48	597	3.62	9.92
-10	14	950	3240	817	1.45	4.96	654	3.84	12.08
-5	23	1138	3883	979	1.63	5.56	698	4.04	14.57
0	32	1353	4615	1163	1.83	6.26	737	4.22	17.44
5	41	1596	5446	1373	2.05	6.98	780	4.40	20.76
7.2	45	1713	5845	1473	2.14	7.29	802	4.47	22.38