

Model

SC18MLX

Sales code:

104L2138

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	14.00 kg / 30.86lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18MLX

–	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz
Number of phases	1
Voltage range	187-254 V
Approvals	UL, KC
Starting torque	HST
Refrigerant	R404A
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

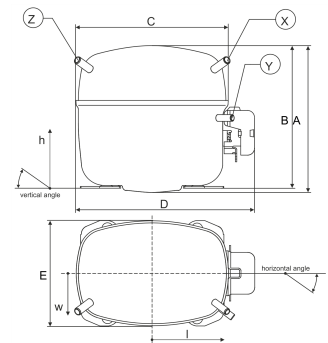
Oil type	POE	Winding resistance main	2.2 Ohm
Oil viscosity	32cSt	Winding resistance aux	6.4 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

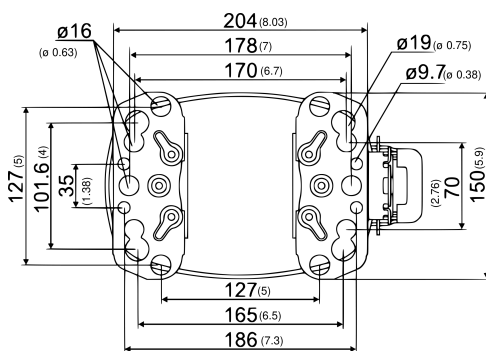
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

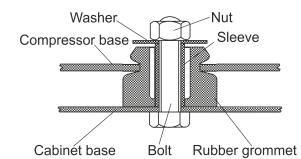


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

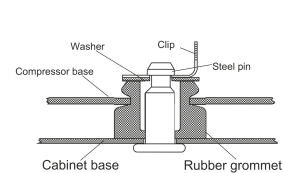
Mounting Accessories



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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Configuration 1

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Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R404A
Application	MBP
Voltage range	187-254 V
Starting torque	HST
Approvals	UL, KC
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	32.5 A
RLA (rated load amps / 1s/ U(N))	6.2 A

Ambient/ machine room temperatures minimum /maximum

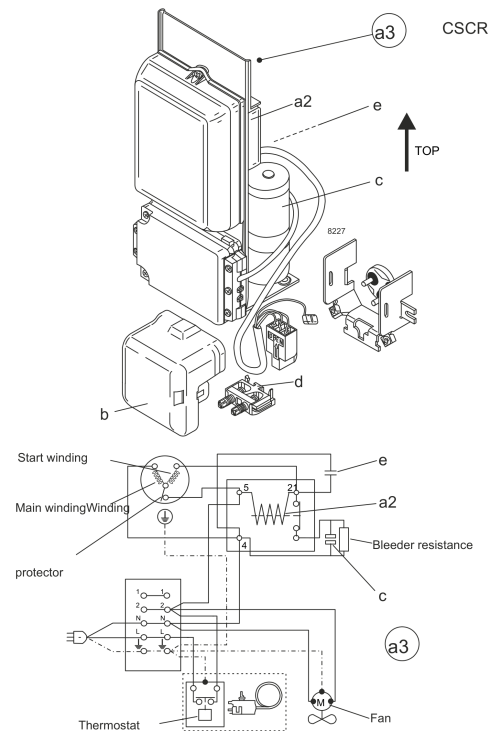
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a3 SC starter kit 117-7066

b plastic cover 103N2009

d cord relief 103N1004

Alternative components

a2 potential relay (RVA 2GR134) 117-7445

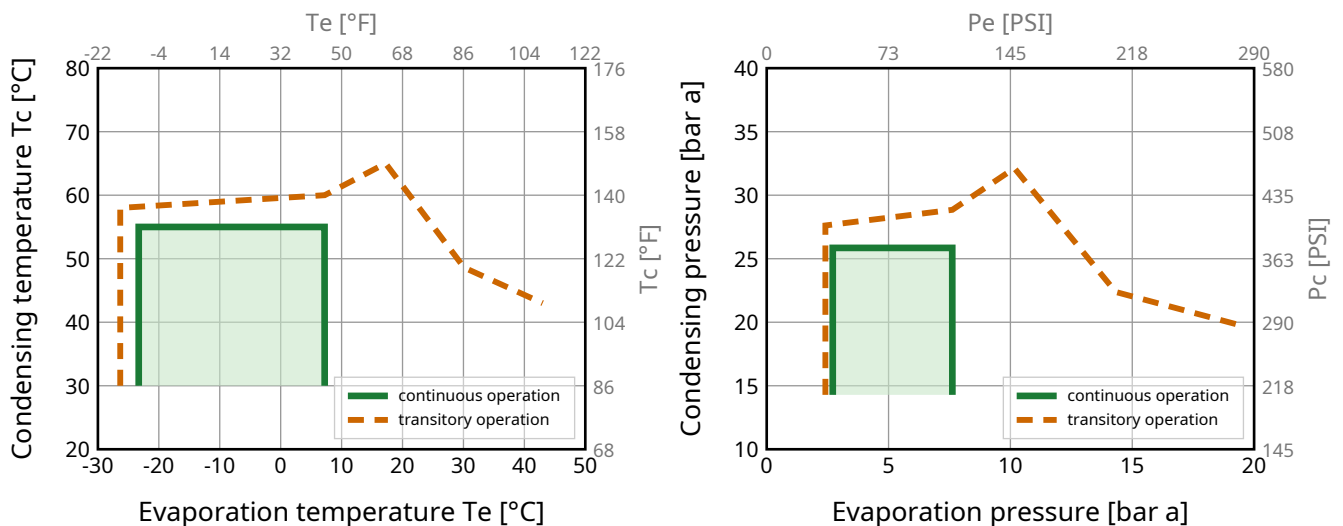
e run capacitor (10 μ F, 6.3mm) 117-7121

c start capacitor (80 μ F) 117U5373

b plastic cover 103N2009

d cord relief 103N1004

Operation Pressure Range



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Standard Conditions

R404A, 230 V/60 Hz, CSCR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	ṁ	
[°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	1866	6365	1604	1.47	5.02	1267	6.71	51.25	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1393	4752	1198	1.17	3.98	1194	6.43	44.52	CECOMAF MBP
-10 14	45 113	20 68	45 113	1632	5570	1404	1.44	4.92	1131	6.21	49.09	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1698	5795	1461	1.39	4.74	1223	6.55	55.34	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1732	5909	1489	1.53	5.22	1131	6.21	47.61	opt MBP 1
-25 -13	45 113	32 89.6	45 113	914	3118	786	1.06	3.63	860	5.33	24.59	opt MBP 2

Performance Tables

R404A, 230 V/60 Hz, CSCR, fan 3m/s

pc= 45/113 | RGT= 32/89.6 | Tliq= 45/113 | °C/°F

pe		Cooling capacity			COP	EER	P	I	ṁ
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	986	3365	848	1.11	3.78	890	5.42	26.59
-20	-4	1140	3891	981	1.20	4.10	949	5.59	30.88
-15	5	1412	4816	1214	1.36	4.63	1039	5.88	38.49
-10	14	1732	5909	1489	1.53	5.22	1131	6.21	47.61
-5	23	2106	7186	1811	1.72	5.86	1226	6.56	58.46
0	32	2538	8661	2183	1.92	6.54	1325	6.96	71.28
5	41	3034	10352	2609	2.12	7.24	1429	7.38	86.36
7.2	45	3273	11168	2815	2.22	7.56	1477	7.58	93.79

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

-23.3	-10	763	2602	656	0.87	2.97	877	5.42	23.84
-20	-4	893	3046	768	0.93	3.18	957	5.65	28.03
-15	5	1122	3827	965	1.04	3.56	1076	6.02	35.51
-10	14	1393	4752	1198	1.17	3.98	1194	6.43	44.52
-5	23	1711	5838	1471	1.30	4.45	1312	6.88	55.31
0	32	2080	7099	1789	1.45	4.96	1432	7.35	68.16
5	41	2506	8552	2156	1.61	5.50	1555	7.87	83.42
7.2	45	2713	9256	2333	1.69	5.75	1610	8.10	91.00