

Model
SC18MLX

Sales code:
104L2139

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)	220-240 V/50 Hz
Number of phases	1
Voltage range	198-254 V
Approvals	CCC, VDE, EAC
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

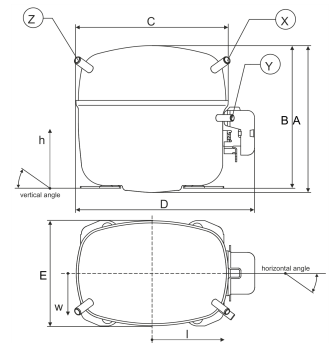
Oil type	POE	Winding resistance main	3.4 Ohm
Oil viscosity	32cSt	Winding resistance aux	14.4 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	135°C / 275°F
Motor protection	internal		

Compressor Dimensions

Housing

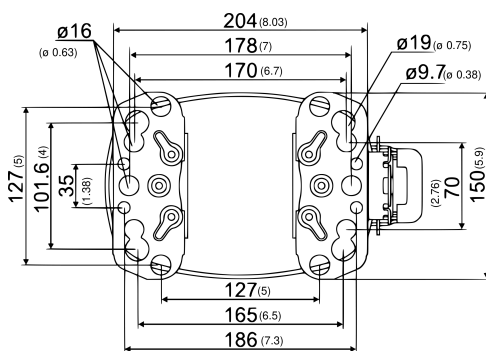
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

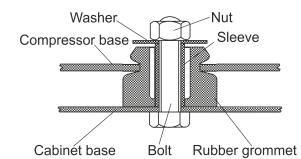


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in	-107/193/55 / -4.21/7.60/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

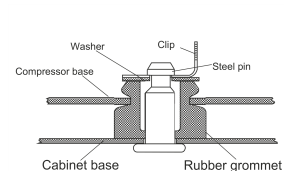
Mounting Accessories



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	R404A
Application	MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC, VDE, EAC
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
RLA (rated load amps / 1s/ U(N))	-/-A

Ambient/ machine room temperatures minimum /maximum

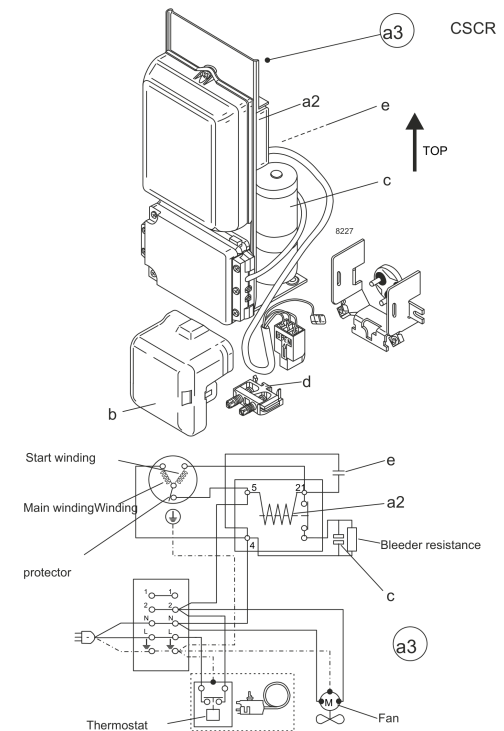
Ambient temperature range: 10 - 38°C / 50 - 100°F

Machine room temp. compressor: 10 - 43°C / 50 - 109°F

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

Components

a3 SC starter kit (550mm) 117-7027

b plastic cover 103N2009

d cord relief 103N1004

Alternative components

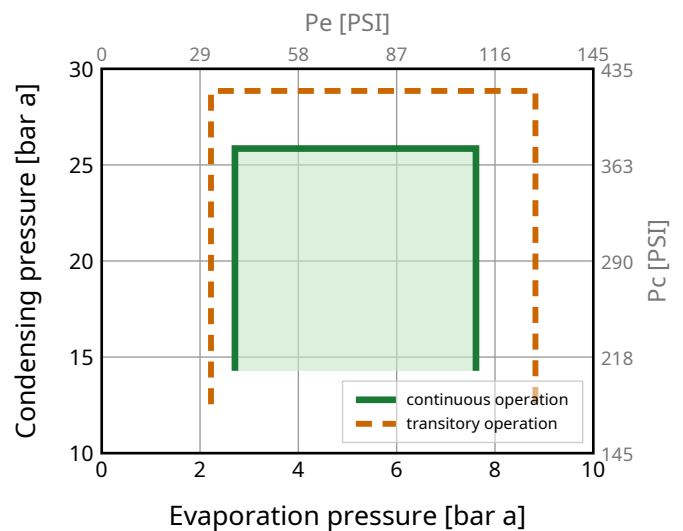
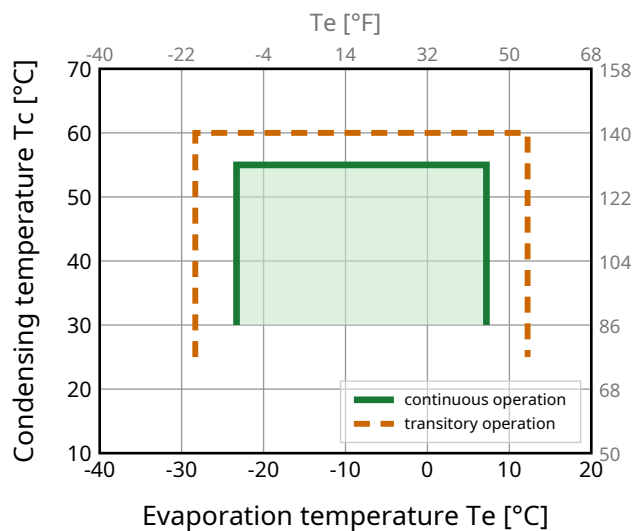
a3 SC starter kit (1000mm) 117-7040

a3 SC starter kit (650mm) 117-7046

c start capacitor (80 μ F) 117U5373

e run capacitor (10 μ F, 6.3mm) 117-7112

Operation Pressure Range



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Standard Conditions

R404A, 220 V/50 Hz, CSCR, 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	1603	5469	1378	1.64	5.61	975	4.91	44.03	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1195	4079	1028	1.29	4.41	926	4.67	38.21	CECOMAF MBP
-10 14	45 113	20 68	45 113	1411	4814	1213	1.64	5.60	860	4.40	42.43	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1468	5008	1262	1.58	5.39	930	4.73	47.83	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1497	5107	1287	1.74	5.94	860	4.40	41.16	opt MBP 1
-25 -13	45 113	32 89.6	45 113	767	2616	659	1.17	4.01	653	3.47	20.63	opt MBP 2

Performance Tables

R404A, 220 V/50 Hz, CSCR, 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	831	2835	715	1.23	4.19	676	3.57	22.41
-20	-4	968	3304	833	1.34	4.58	722	3.76	26.22
-15	5	1210	4130	1041	1.53	5.22	790	4.07	33.00
-10	14	1497	5107	1287	1.74	5.94	860	4.40	41.16
-5	23	1832	6251	1576	1.97	6.71	931	4.75	50.86
0	32	2220	7575	1909	2.21	7.54	1004	5.12	62.34
5	41	2665	9094	2292	2.47	8.42	1080	5.51	75.86
7.2	45	2880	9827	2477	2.59	8.82	1114	5.69	82.53

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

-23.3	-10	662	2259	569	0.94	3.20	705	3.71	20.69
-20	-4	770	2629	663	1.01	3.46	760	3.94	24.20
-15	5	964	3288	829	1.14	3.90	842	4.29	30.51
-10	14	1195	4079	1028	1.29	4.41	926	4.67	38.21
-5	23	1470	5015	1264	1.46	4.97	1009	5.06	47.51
0	32	1791	6111	1540	1.64	5.59	1094	5.48	58.68
5	41	2163	7382	1861	1.83	6.25	1181	5.92	72.00
7.2	45	2345	8000	2016	1.92	6.56	1220	6.12	78.65