

Model

SC15MLX.2

Sales code:

104L2803

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.70 kg / 30.20lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15MLX.2

-	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

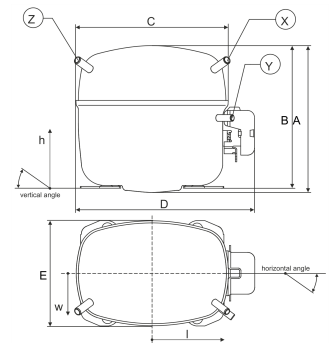
Oil type	POE	Winding resistance main	2.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.30 Ohm
Oil quantity	550 / 18.60fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm3 / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

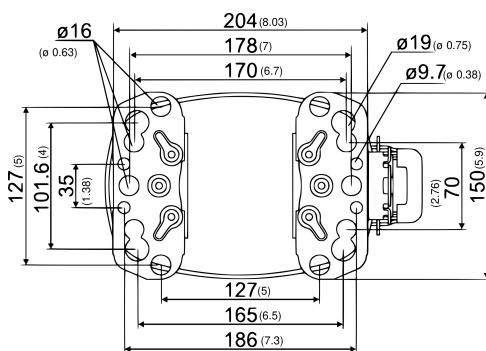
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	239mm / 9.41in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



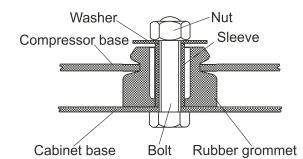
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

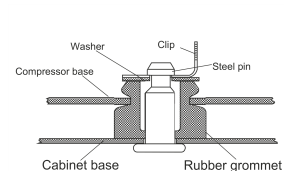


Dimensions in mm [in]

Bolt joint



Snap-on



	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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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	15 μF
Start capacitor	125 μF
LRA (locked rotor amps / 4s/ U(N))	32 A
RLA (rated load amps / 1s/ U(N))	5 A

Ambient/ machine room temperatures minimum /maximum

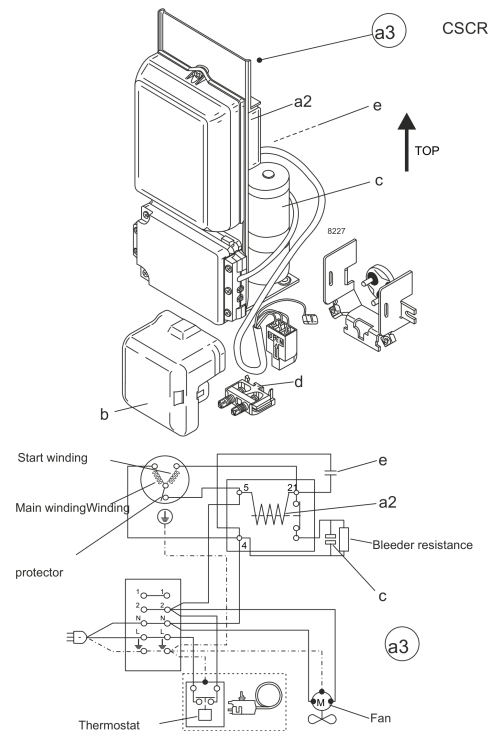
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

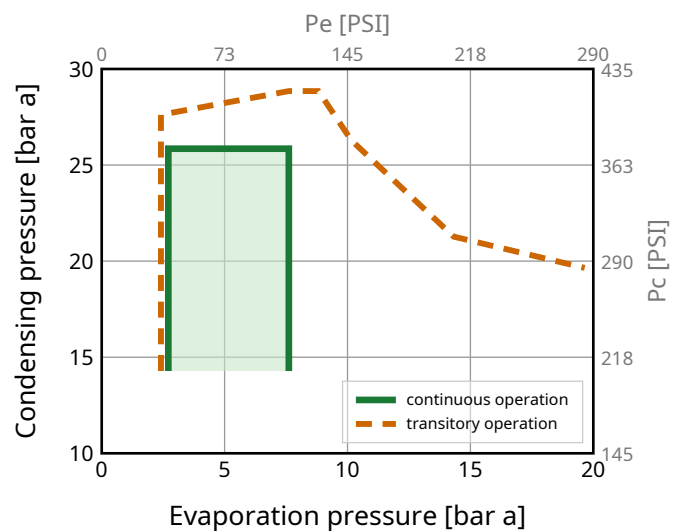
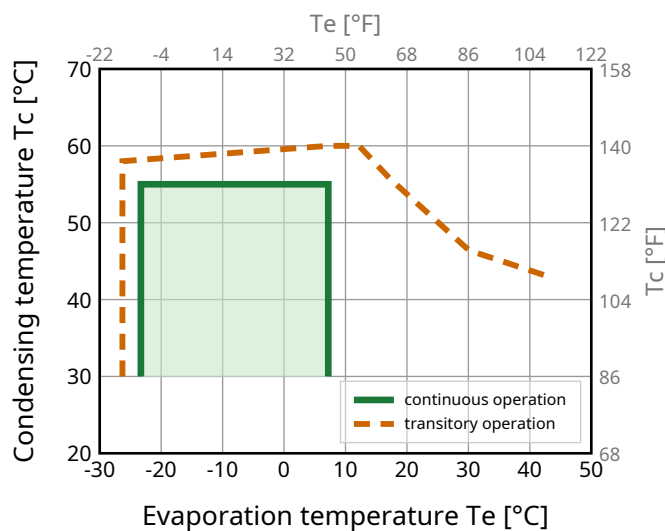
Components

a3 SC starter kit 117-7058

b plastic cover 103N2008

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	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	1518	5178	1305	1.56	5.31	975	4.35	41.69	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1131	3859	973	1.22	4.17	926	4.13	36.15	CECOMAF MBP
-10 14	45 113	20 68	45 113	1337	4561	1150	1.55	5.30	860	3.88	40.19	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1391	4746	1196	1.50	5.10	930	4.19	45.33	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1418	4838	1219	1.65	5.63	860	3.88	38.99	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	909	3100	781	1.34	4.59	676	3.09	21.12	opt LBP

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	m
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-23.3	-10	784	2674	674	1.16	3.95	676	3.09	21.14
-20	-4	915	3121	787	1.27	4.33	722	3.27	24.77
-15	5	1145	3907	985	1.45	4.94	790	3.56	31.23
-10	14	1418	4838	1219	1.65	5.63	860	3.88	38.99
-5	23	1737	5927	1494	1.87	6.37	931	4.21	48.23
0	32	2107	7188	1812	2.10	7.16	1004	4.55	59.16
5	41	2531	8635	2176	2.34	8.00	1080	4.92	72.03
7.2	45	2735	9333	2352	2.46	8.38	1114	5.09	78.38

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

-23.3	-10	623	2125	536	0.88	3.01	705	3.23	19.47
-20	-4	726	2478	625	0.96	3.26	760	3.44	22.80
-15	5	910	3106	783	1.08	3.68	842	3.77	28.82
-10	14	1131	3859	973	1.22	4.17	926	4.13	36.15
-5	23	1392	4750	1197	1.38	4.71	1009	4.50	45.01
0	32	1698	5794	1460	1.55	5.30	1094	4.90	55.63
5	41	2053	7004	1765	1.74	5.93	1181	5.31	68.32
7.2	45	2225	7593	1914	1.82	6.22	1220	5.50	74.65