

Model
SC15MLX.2

Sales code:
104L1807

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	14.20 kg / 31.31lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15MLX.2

-	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	103-127 V
Approvals	UL
Starting torque	HST
Refrigerant	R404A
Application	MBP
Hot gas defrost	OK
Long interval pull down	OK

Application Notes

- Protector and cover are included and pre-assembled to compressor.
- 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	0.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	3.00 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	external		

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 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

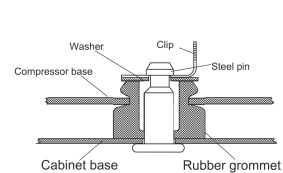
Mounting Accessories



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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Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R404A
Application	MBP
Voltage range	103-127 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	23.5 μF
Start capacitor	410 μF
LRA (locked rotor amps / 4s/ U(N))	63 A
RLA (rated load amps / 1s/ U(N))	9.6 A
Cut in current (U(N))	63 A

Ambient/ machine room temperatures minimum /maximum

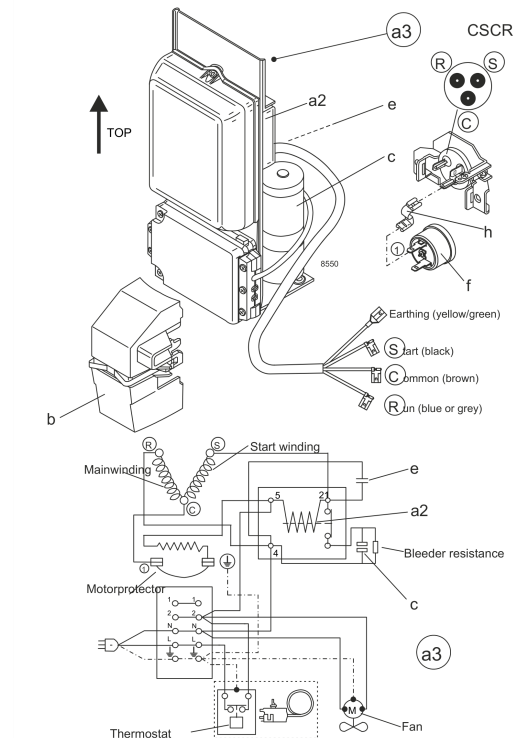
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components (protector + ~holder + cover: pre assembled)

a3 SC starter kit 117-7045

f ext. protector (T0761/46) 117U3212

b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

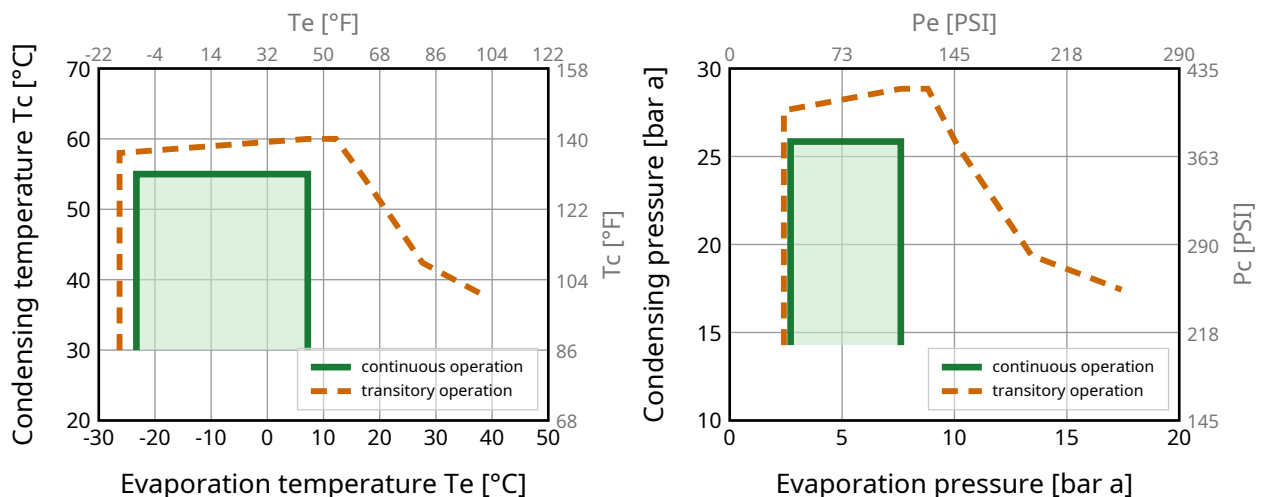
e run capacitor (23,5 μ F, 6.3mm) 117-7114

c start capacitor (410 μ F, 6.3mm) 117U5043

f ext. protector (T0761/46) 117U3212

b plastic cover + clamp 117U1021

Operation Pressure Range



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Standard Conditions

R404A, 115 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	1517	5177	1305	1.50	5.13	1009	10.20	41.68	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1132	3861	973	1.20	4.08	947	9.76	36.17	CECOMAF MBP
-10 14	45 113	20 68	45 113	1328	4531	1142	1.49	5.07	894	9.39	39.94	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1382	4716	1189	1.42	4.86	971	9.94	45.04	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1409	4808	1212	1.58	5.38	894	9.39	38.74	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	926	3161	797	1.34	4.59	689	8.12	21.54	opt LBP

Performance Tables

R404A, 115 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	799	2727	687	1.16	3.96	689	8.12	21.55
-20	-4	925	3157	796	1.25	4.27	739	8.40	25.05
-15	5	1147	3914	987	1.41	4.80	815	8.87	31.28
-10	14	1409	4808	1212	1.58	5.38	894	9.39	38.74
-5	23	1715	5851	1475	1.76	6.01	974	9.97	47.61
0	32	2069	7058	1779	1.96	6.67	1058	10.60	58.09
5	41	2474	8441	2127	2.16	7.36	1147	11.28	70.41
7.2	45	2669	9108	2296	2.25	7.67	1187	11.60	76.49

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

-23.3	-10	616	2103	530	0.91	3.10	678	8.12	19.27
-20	-4	723	2466	622	0.97	3.31	745	8.49	22.70
-15	5	910	3105	783	1.07	3.67	846	9.10	28.81
-10	14	1132	3861	973	1.20	4.08	947	9.76	36.17
-5	23	1392	4749	1197	1.33	4.53	1047	10.47	44.99
0	32	1694	5780	1457	1.47	5.03	1149	11.24	55.50
5	41	2042	6969	1756	1.63	5.56	1254	12.06	67.98
7.2	45	2211	7545	1902	1.70	5.80	1300	12.44	74.17