

Model
SC15MLX

Sales code:
104L1805

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

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-135 V	95-135 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R404A	R404A
Application	MBP	MBP
Hot gas defrost	OK	OK
Long interval pull down	OK	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

Model
SC15MLX

Sales code:
104L1805

Compressor Design

Oil type	POE	Winding resistance main	0.600 Ohm
Oil viscosity	32cSt	Winding resistance aux	2.60 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	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

[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

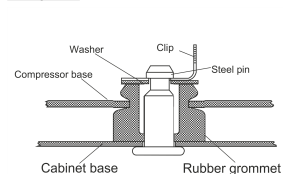
Mounting Accessories



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

Model
SC15MLX

Configuration 1

Sales code:
104L1805

Configuration

Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R404A
Application	MBP
Voltage range	103-135 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	-/-
Start capacitor	410 µF
LRA (locked rotor amps / 4s/ U(N))	69 A
RLA (rated load amps / 1s/ U(N))	13 A
Cut in current (U(N))	69 A

Ambient/ machine room temperatures minimum /maximum

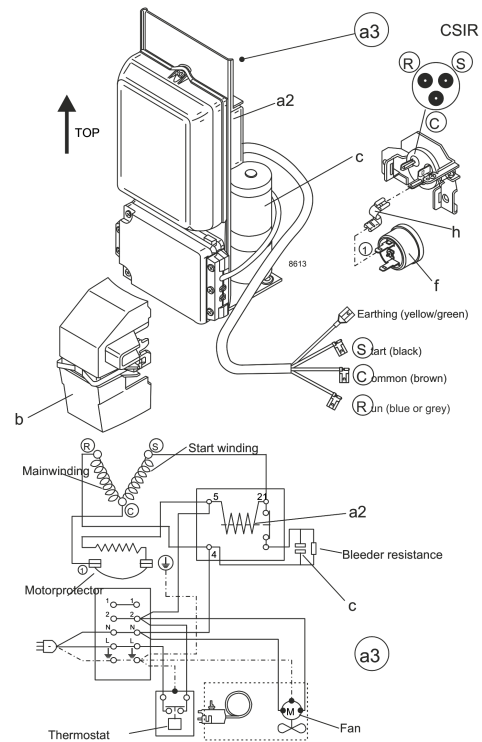
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

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

a3 SC starter kit 117-7053

f ext. protector (T0777/46) 117U3188

b plastic cover + clamp 117U1021

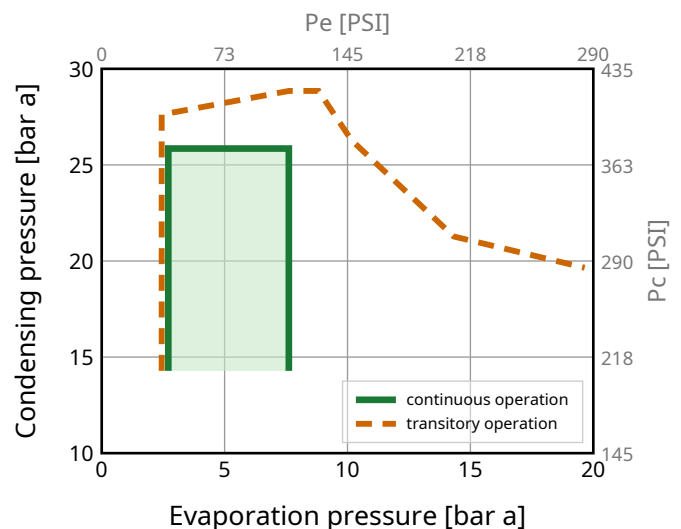
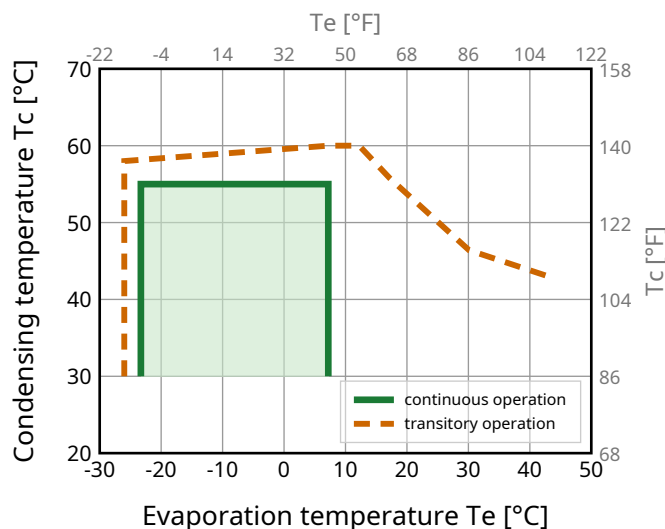
Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

c start capacitor (410µF, 6.3mm) 117U5042

b plastic cover + clamp 117U1021

Operation Pressure Range



Model
SC15MLX

Configuration 1

Sales code:
104L1805

Standard Conditions

R404A, 115 V/60 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	1502	5126	1292	1.41	4.79	1070	12.23	41.27	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1113	3799	958	1.11	3.79	1003	11.73	35.59	CECOMAF MBP
-10 14	45 113	20 68	45 113	1318	4499	1134	1.39	4.75	947	11.32	39.65	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1375	4691	1182	1.33	4.56	1030	11.94	44.80	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1399	4773	1203	1.48	5.04	947	11.32	38.46	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	894	3050	769	1.23	4.18	730	9.88	20.78	opt LBP

Performance Tables

R404A, 115 V/60 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	771	2631	663	1.06	3.60	730	9.88	20.79
-20	-4	901	3074	775	1.15	3.92	783	10.20	24.39
-15	5	1129	3853	971	1.31	4.46	864	10.73	30.79
-10	14	1399	4773	1203	1.48	5.04	947	11.32	38.46
-5	23	1714	5847	1474	1.66	5.66	1033	11.97	47.57
0	32	2078	7089	1787	1.85	6.32	1122	12.69	58.34
5	41	2495	8512	2146	2.05	7.00	1216	13.46	71.01
7.2	45	2696	9199	2319	2.14	7.31	1258	13.82	77.26

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

-23.3	-10	583	1989	501	0.81	2.77	718	9.88	18.22
-20	-4	692	2363	596	0.88	2.99	790	10.30	21.75
-15	5	885	3020	761	0.99	3.37	897	10.99	28.02
-10	14	1113	3799	958	1.11	3.79	1003	11.73	35.59
-5	23	1381	4712	1188	1.24	4.24	1110	12.54	44.65
0	32	1692	5774	1455	1.39	4.74	1218	13.41	55.44
5	41	2051	6997	1764	1.54	5.26	1329	14.35	68.25
7.2	45	2224	7590	1913	1.61	5.51	1378	14.78	74.62

Model
SC15MLX

Configuration 2

Sales code:
104L1805

Configuration

Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R404A
Application	MBP
Voltage range	95-135 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))	69 A
RLA (rated load amps / 1s/ U(N))	13 A
Cut in current (U(N))	69 A

Ambient/ machine room temperatures minimum /maximum

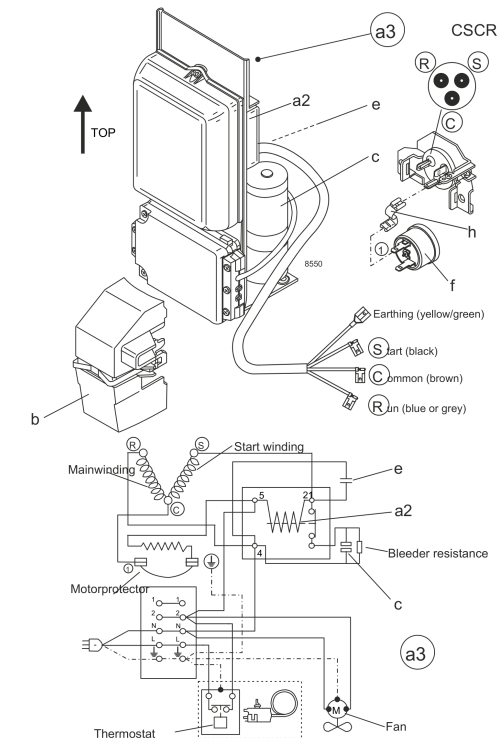
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



[View full size](#)

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

a3 SC starter kit 117-7045

f ext. protector (T0777/46) 117U3188

h protector holder 117U0439

b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

f ext. protector (T0777/46) 117U3188

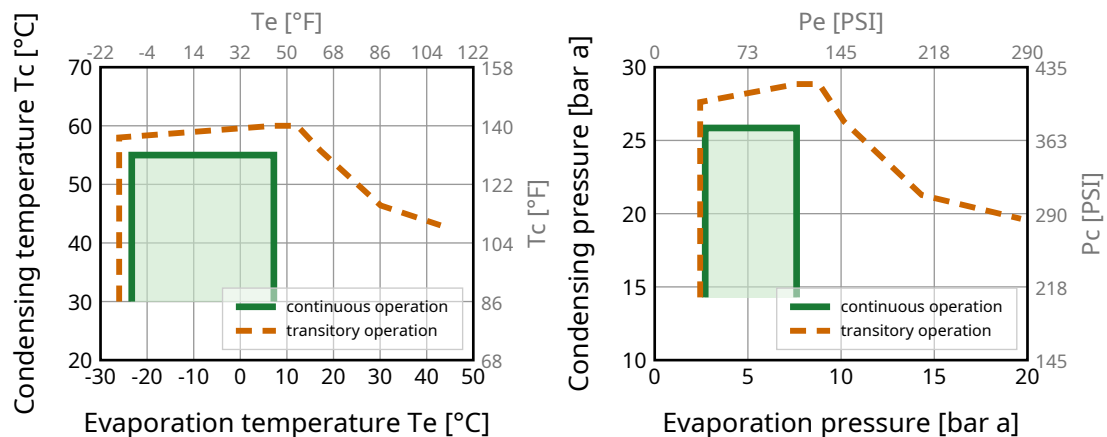
h protector holder 117U0439

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

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

b plastic cover + clamp 117U1021

Operation Pressure Range



Model
SC15MLX

Configuration 2

Sales code:
104L1805

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	1.46	4.99	1037	12.23	41.68	ASHRAE MBP
-10 14	55 131	32 89.6	55 131	1124	3837	967	1.16	3.94	973	11.73	35.94	CECOMAF MBP
-10 14	45 113	20 68	45 113	1332	4544	1145	1.45	4.94	919	11.32	40.04	EN12900 MBP
-6.7 20	48.8 119.8	18.3 64.9	48.8 119.8	1389	4738	1194	1.39	4.74	999	11.94	45.25	ARI540 MBP
-10 14	45 113	32 89.6	45 113	1413	4820	1215	1.54	5.25	919	11.32	38.84	opt MBP
-23.3 -10	45 113	32.2 90	32.2 90	903	3081	776	1.27	4.35	708	9.88	20.99	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	779	2657	670	1.10	3.75	708	9.88	21.00
-20	-4	910	3105	783	1.20	4.09	760	10.20	24.64
-15	5	1140	3891	981	1.36	4.64	838	10.73	31.10
-10	14	1413	4820	1215	1.54	5.25	919	11.32	38.84
-5	23	1731	5905	1488	1.73	5.90	1002	11.97	48.05
0	32	2098	7160	1805	1.93	6.58	1088	12.69	58.92
5	41	2520	8597	2167	2.14	7.29	1179	13.46	71.72
7.2	45	2723	9291	2342	2.23	7.61	1221	13.82	78.03

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

-23.3	-10	589	2009	506	0.84	2.88	697	9.88	18.40
-20	-4	699	2386	601	0.91	3.12	766	10.30	21.96
-15	5	894	3050	769	1.03	3.50	870	10.99	28.30
-10	14	1124	3837	967	1.16	3.94	973	11.73	35.94
-5	23	1395	4759	1200	1.29	4.42	1077	12.54	45.09
0	32	1709	5832	1470	1.45	4.93	1182	13.41	55.99
5	41	2071	7067	1781	1.61	5.48	1289	14.35	68.94
7.2	45	2247	7666	1932	1.68	5.73	1337	14.78	75.36