

Model
SC18CLX.2

Sales code:
104L2198

Compressor Data

Refrigerant(s)	R404A / R452A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	14.20 kg / 31.31lbs
Displacement	17.69 cm3 / 1.08cu.in
Compressors on pallet	80



General – Configurations With SC18CLX.2

-	Conf. 1	Conf. 2
Motor configuration	CSCR	CSCR
Power supply (nominal)	115 V/60 Hz	115 V/60 Hz
Number of phases	1	1
Voltage range	103-127 V	103-127 V
Approvals	UL	UL
Starting torque	HST	HST
Refrigerant	R404A	R452A
Application	LBP	LBP
Hot gas defrost	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

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Compressor Design

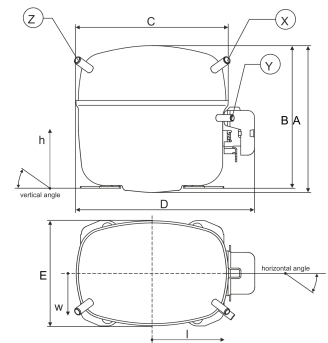
Oil type	POE	Winding resistance main	0.6 Ohm
Oil viscosity	32cSt	Winding resistance aux	3.2 Ohm
Oil quantity	556 / 18.80fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	external		

Compressor Dimensions

Housing

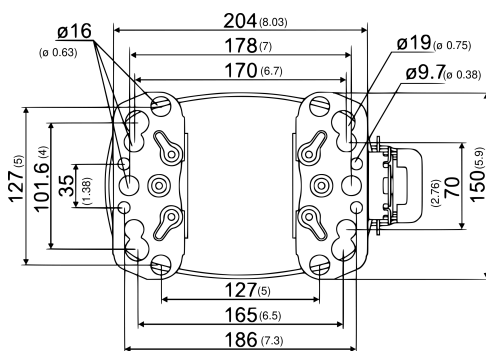
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



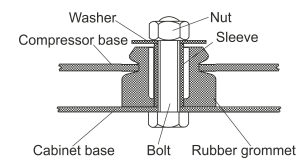
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/193/55 / 4.21/7.60/2.17in	115/110/63 / 4.53/4.33/2.48in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

Mounting Accessories

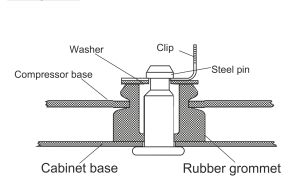


Dimensions in mm [in]

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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Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
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

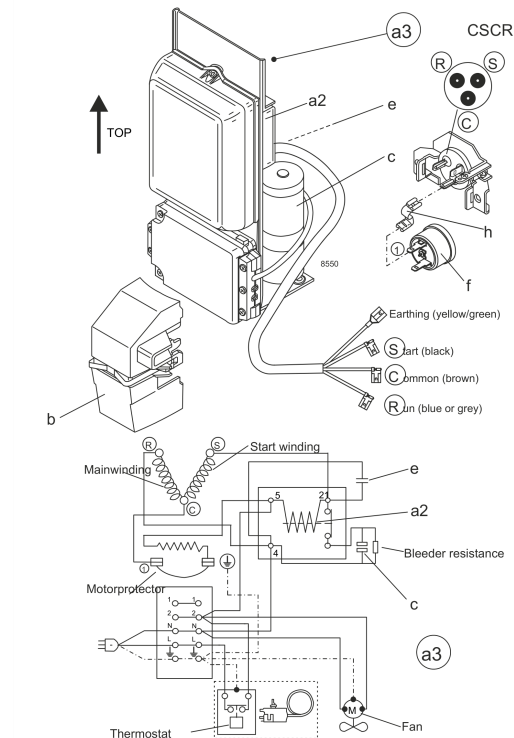
Ambient temperature range: 10 - 43°C / 50 - 109°F

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 (T0761/46) 117U3212

b plastic cover + clamp 117U1021

Alternative components

a2 potential relay (RVA 7AA3R) 117-7441

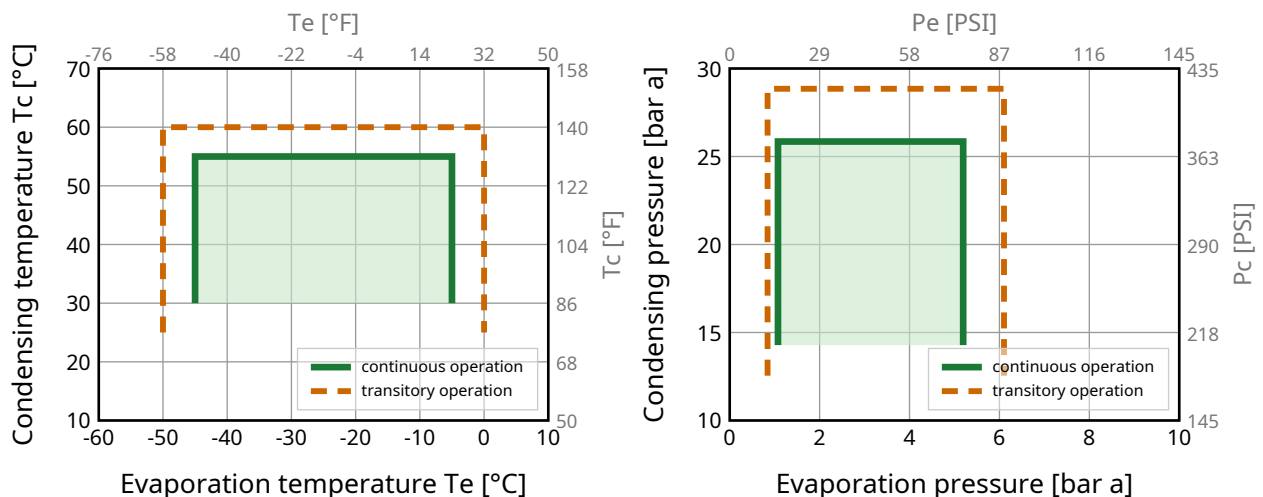
e run capacitor (23,5 μ F, 6.3mm) 117-7114

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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Configuration 1

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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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	1075	3667	924	1.31	4.48	819	8.99	24.98	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	738	2517	634	0.94	3.21	785	8.76	23.00	CECOMAF LBP
-35 -31	40 104	20 68	40 104	569	1942	489	0.97	3.30	588	7.51	15.42	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	783	2671	673	0.97	3.30	808	8.93	27.62	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1158	3951	996	1.47	5.01	788	8.80	26.92	AHAM LBP
-35 -31	45 113	32 89.6	45 113	523	1785	450	0.91	3.09	577	7.47	13.95	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]
-45	-49	109	371	93	0.34	1.16	320	6.25	2.88
-40	-40	327	1114	281	0.71	2.43	458	6.86	8.68
-30	-22	712	2428	612	1.05	3.57	680	8.07	19.05
-20	-4	1117	3811	961	1.31	4.46	854	9.27	30.24
-10	14	1648	5625	1418	1.62	5.54	1015	10.44	45.32
-5	23	1994	6805	1715	1.81	6.19	1100	11.02	55.37

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

-45	-49	-	-	-	-	-	-	5.93	-
-40	-40	153	523	132	0.38	1.29	404	6.65	4.71
-30	-22	560	1909	481	0.83	2.83	674	8.06	17.35
-20	-4	917	3127	788	1.04	3.54	884	9.46	28.78
-10	14	1330	4538	1144	1.25	4.25	1067	10.83	42.51
-5	23	1591	5427	1368	1.37	4.68	1158	11.51	51.42

Model

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Configuration 2

Sales code:

104L2198

Configuration

Motor configuration	CSCR
Power supply (nominal)	115 V/60 Hz 1~
Refrigerant	R452A
Application	LBP
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

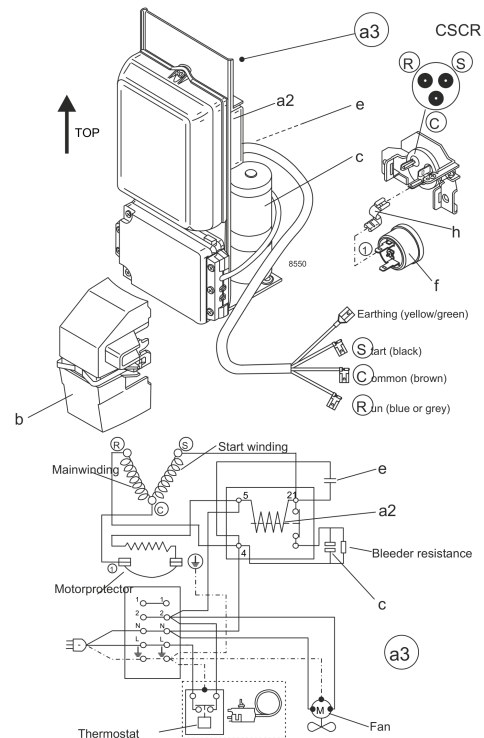
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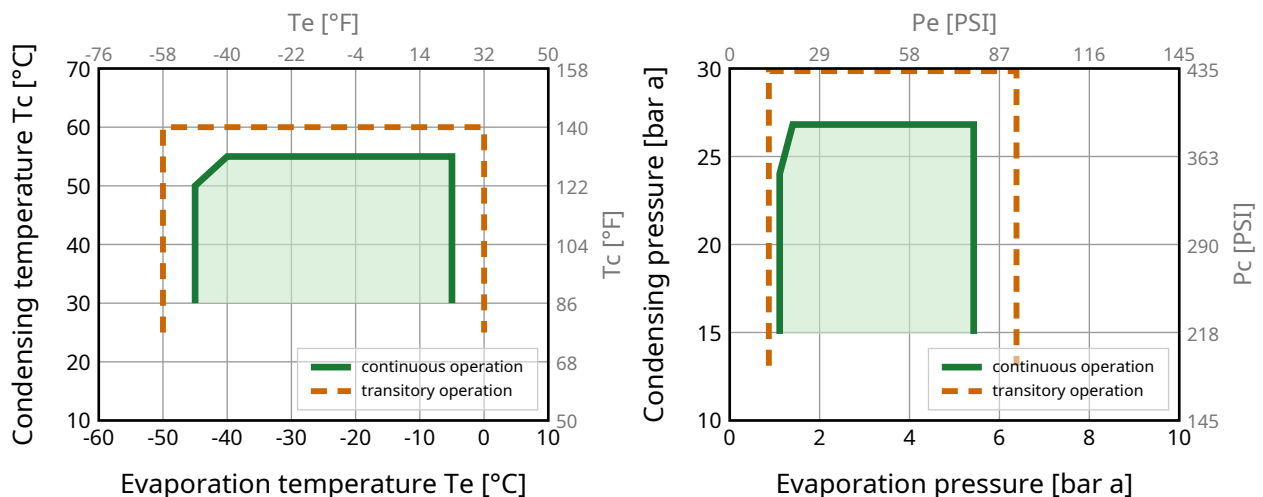
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c start capacitor (410 μ F, 6.3mm) 117U5043

f ext. protector (T0761/46) 117U3212

b plastic cover + clamp 117U1021

Operation Pressure Range



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Configuration 2

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Standard Conditions

R452A, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	987	3369	849	1.28	4.35	774	8.83	23.89	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	680	2319	584	0.92	3.13	740	8.62	21.92	CECOMAF LBP
-35 -31	40 104	20 68	40 104	513	1751	441	0.93	3.17	552	7.41	14.45	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	724	2472	623	0.95	3.23	766	8.78	26.45	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1065	3634	916	1.42	4.85	749	8.67	25.77	AHAM LBP
-35 -31	45 113	32 89.6	45 113	471	1607	405	0.87	2.98	540	7.34	13.05	opt LBP

Performance Tables

R452A, 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]
-45	-49	87	297	75	0.29	1.00	296	5.78	2.40
-40	-40	288	984	248	0.68	2.31	427	6.61	7.96
-30	-22	648	2211	557	1.01	3.46	640	7.98	18.03
-20	-4	1035	3532	890	1.27	4.34	814	9.09	29.11
-10	14	1551	5291	1334	1.59	5.42	977	10.13	44.28
-5	23	1889	6444	1624	1.78	6.06	1063	10.69	54.45

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

-45	-49	-	-	-	-	-	-	5.24	-
-40	-40	131	447	113	0.35	1.20	371	6.26	4.16
-30	-22	510	1741	439	0.81	2.76	631	7.92	16.37
-20	-4	852	2907	733	1.01	3.46	839	9.25	27.67
-10	14	1257	4289	1081	1.23	4.18	1025	10.44	41.55
-5	23	1515	5169	1303	1.35	4.62	1118	11.04	50.63