

Model

SC10CLX

Sales code:

104L2512

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.20 kg / 29.10lbs
Displacement	10.29 cm3 / 0.63cu.in
Compressors on pallet	80



General – Configurations With SC10CLX

-	Conf. 1	Conf. 2
Motor configuration	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	CCC, UL, KC	CCC, UL, KC
Starting torque	HST	HST
Refrigerant	R404A	R404A
Application	LBP+MBP	LBP
Hot gas defrost	OK	OK
Long interval pull down	OK	OK

Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

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Compressor Design

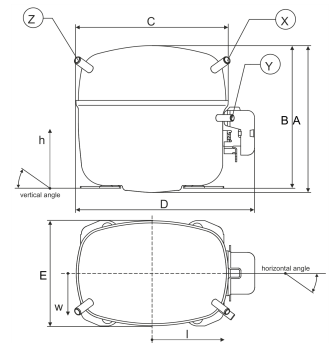
Oil type	POE	Winding resistance main	5.13 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.51 Ohm
Oil quantity	506 / 17.11fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,460 cm ³ / 49.37fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

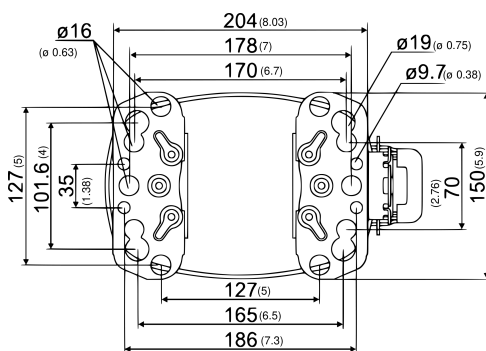
A Height	209mm / 8.23in
B Height	203mm / 7.99in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)

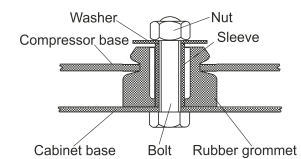


Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9.54–9.72 / 0.38–0.38in	øi 6.41–6.59 / 0.25–0.26in	øi 6.41–6.59 / 0.25–0.26in
Material	CU	CU	CU
Horizontal angle ±2°	37°	37°	143°
Vertical angle ±2°	30°	0°	150°
Position l/h/w [mm]	107/183/55 / 4.21/7.20/2.17in	115/100/63 / 4.53/3.94/2.48in	-107/183/55 / -4.21/7.20/2.17in
Straight tube l. [mm]	12 / 0.47in	12 / 0.47in	12 / 0.47in

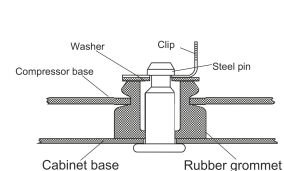
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP+MBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC, UL, KC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

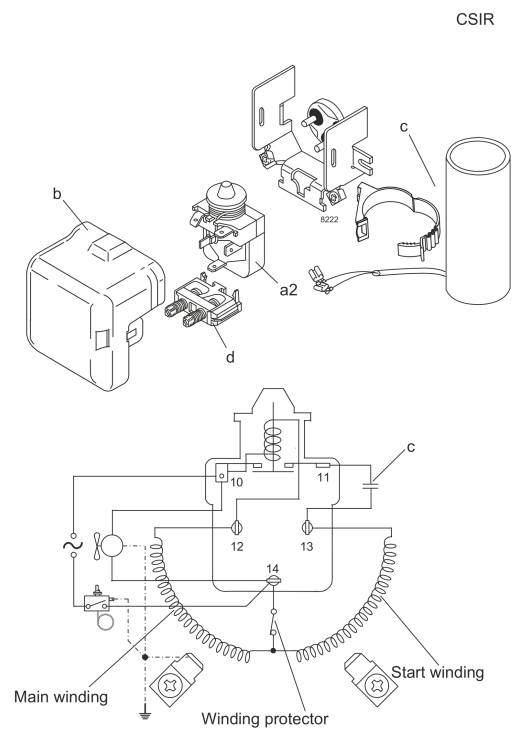
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

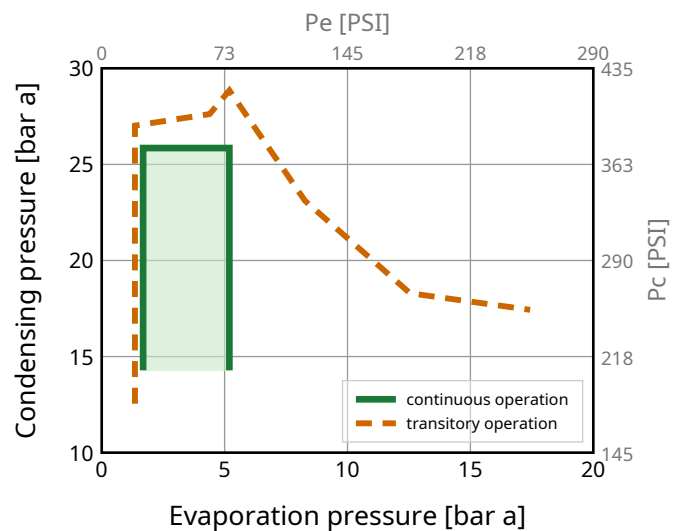
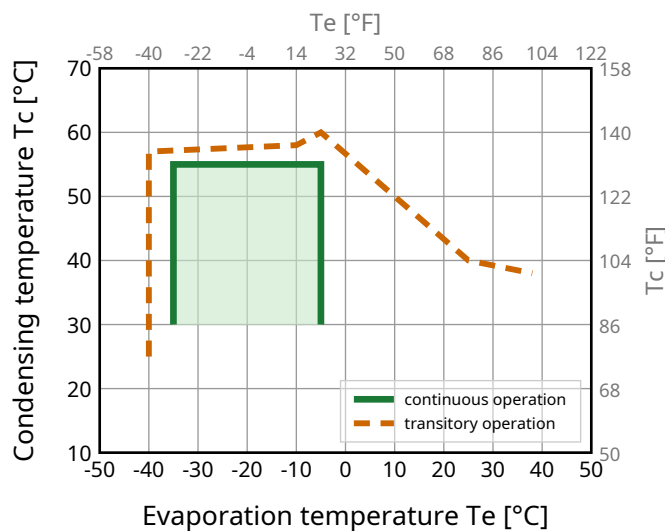
a2 relay 117U6005

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Configuration 1

Sales code:
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Standard Conditions

R404A, 220 V/50 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	396	1351	341	1.11	3.79	356	2.39	9.21	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	258	880	222	0.77	2.62	336	2.31	8.04	CECOMAF LBP
-35 -31	40 104	20 68	40 104	194	662	167	0.74	2.51	264	2.02	5.26	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	310	1056	266	0.85	2.89	366	2.39	10.92	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	492	1679	423	1.33	4.54	370	2.37	11.44	AHAM LBP
-35 -31	45 113	32 89.6	45 113	166	566	143	0.64	2.19	258	2.00	4.42	opt LBP

Performance Tables

R404A, 220 V/50 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]
-35	-31	166	566	143	0.64	2.19	258	2.00	4.42
-30	-22	255	870	219	0.84	2.88	302	2.15	6.83
-25	-13	360	1228	310	1.02	3.49	352	2.32	9.69
-20	-4	483	1647	415	1.20	4.08	404	2.51	13.07
-15	5	625	2134	538	1.37	4.67	457	2.72	17.05
-10	14	789	2693	679	1.55	5.30	508	2.94	21.70
-5	23	977	3334	840	1.76	5.99	556	3.19	27.12

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

-35	-31	94	321	81	0.39	1.32	242	1.93	2.90
-30	-22	169	578	146	0.59	2.03	285	2.11	5.25
-25	-13	258	880	222	0.77	2.62	336	2.31	8.04
-20	-4	361	1233	311	0.92	3.13	394	2.53	11.35
-15	5	482	1644	414	1.06	3.60	456	2.77	15.26
-10	14	621	2120	534	1.19	4.07	521	3.03	19.86
-5	23	781	2666	672	1.34	4.56	585	3.31	25.26

Model
SC10CLX

Configuration 2

Sales code:
104L2512

Configuration

Motor configuration	CSIR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	CCC, UL, KC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	16.2 A
RLA (rated load amps / 1s/ U(N))	3.1 A
Cut in current (U(N))	16.2 A

Ambient/ machine room temperatures minimum /maximum

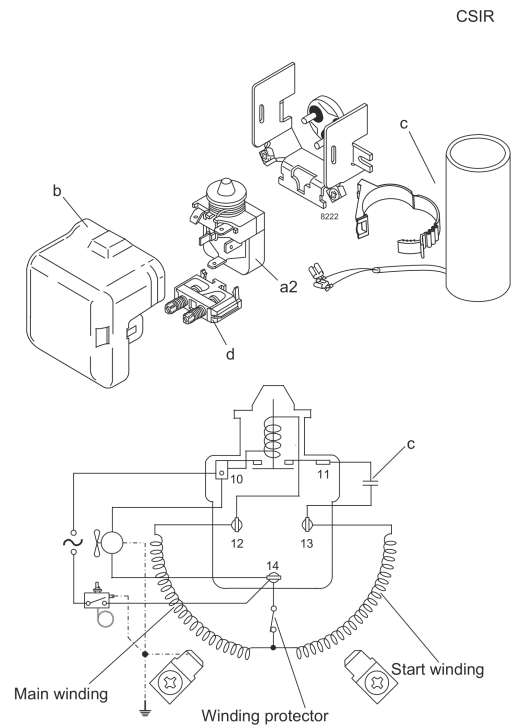
Ambient temperature range: 10 - 38°C / 50 - 100°F

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System Cooling

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Electrical Accessories / Wiring Diagram



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Components

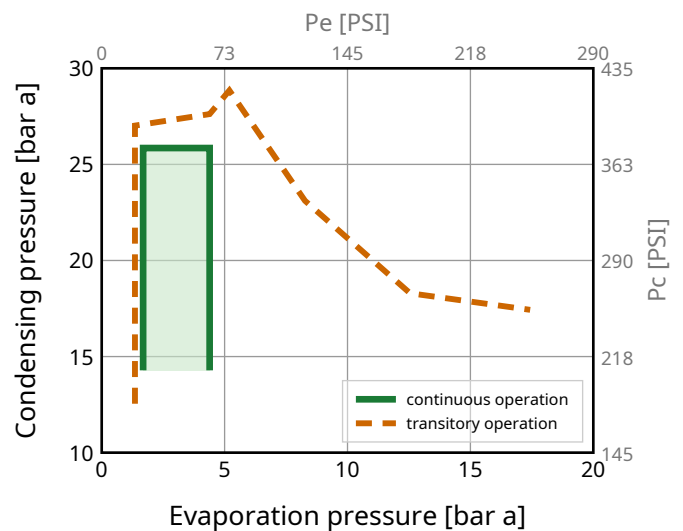
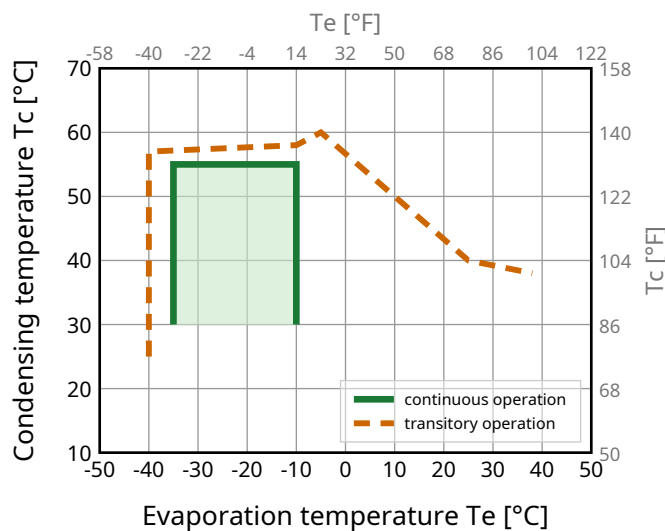
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c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R404A, 220 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	518	1767	445	1.16	3.95	447	2.63	12.04	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	340	1162	293	0.81	2.77	420	2.54	10.62	CECOMAF LBP
-35 -31	40 104	20 68	40 104	262	896	226	0.81	2.76	325	2.25	7.11	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	393	1342	338	0.88	2.99	450	2.63	13.88	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	599	2044	515	1.34	4.58	446	2.61	13.92	AHAM LBP
-35 -31	45 113	32 89.6	45 113	224	764	193	0.74	2.51	304	2.19	5.97	opt LBP

Performance Tables

R404A, 220 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]
-35	-31	224	764	193	0.74	2.51	304	2.19	5.97
-30	-22	335	1142	288	0.91	3.09	370	2.36	8.96
-25	-13	455	1552	391	1.06	3.61	430	2.55	12.25
-20	-4	588	2007	506	1.20	4.10	489	2.77	15.93
-15	5	738	2516	634	1.34	4.56	552	3.02	20.11
-10	14	906	3090	779	1.45	4.96	623	3.30	24.90

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

-35	-31	110	376	95	0.46	1.56	241	2.06	3.40
-30	-22	223	760	192	0.67	2.27	335	2.28	6.91
-25	-13	340	1162	293	0.81	2.77	420	2.54	10.62
-20	-4	466	1591	401	0.93	3.19	499	2.82	14.64
-15	5	603	2059	519	1.04	3.56	578	3.13	19.10
-10	14	755	2575	649	1.14	3.90	661	3.47	24.13