

Model

SC15CLX.2

Sales code:

104L2897

Compressor Data

Refrigerant(s)	R404A / R507 / R452A
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.80 kg / 30.42lbs
Displacement	15.28 cm3 / 0.93cu.in
Compressors on pallet	80



General – Configurations With SC15CLX.2

-	Conf. 1	Conf. 2
Motor configuration	CSCR	CSCR
Power supply (nominal)	208-230 V/60 Hz	208-230 V/60 Hz
Number of phases	1	1
Voltage range	187-254 V	187-254 V
Approvals	UL, KC	UL
Starting torque	HST	HST
Refrigerant	R404A	R452A
Application	LBP	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	3.300 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.60 Ohm
Oil quantity	499 / 16.87fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.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

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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

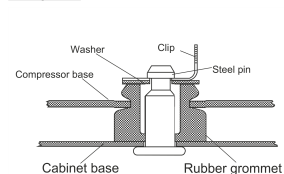
Mounting Accessories



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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Configuration 1

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Configuration

Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	UL, KC
Starting device type	relay
Run capacitor	10 μ F
Start capacitor	80 μ F
LRA (locked rotor amps / 4s/ U(N))	23.4 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	23.4 A

Ambient/ machine room temperatures minimum /maximum

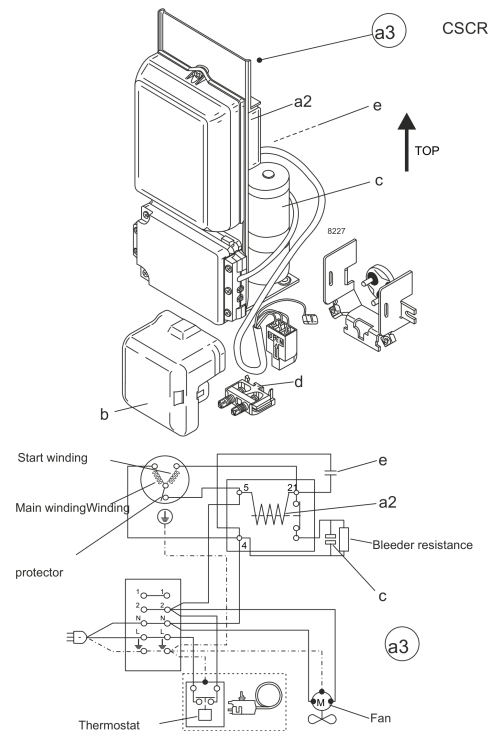
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

a3 SC starter kit (550mm) 117-7039

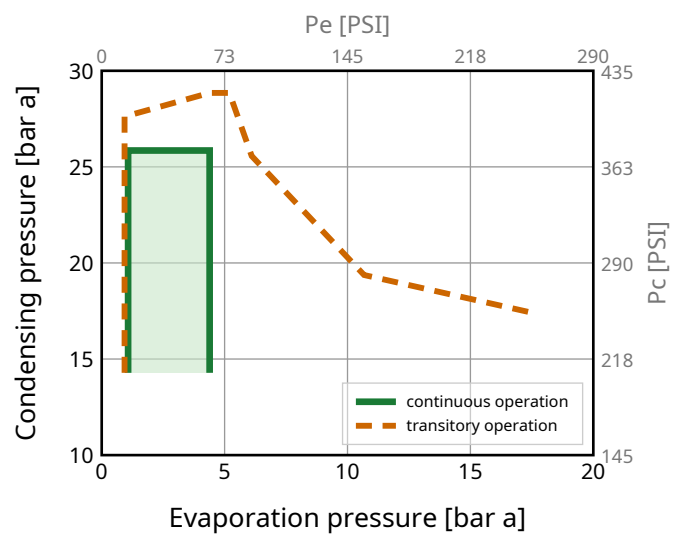
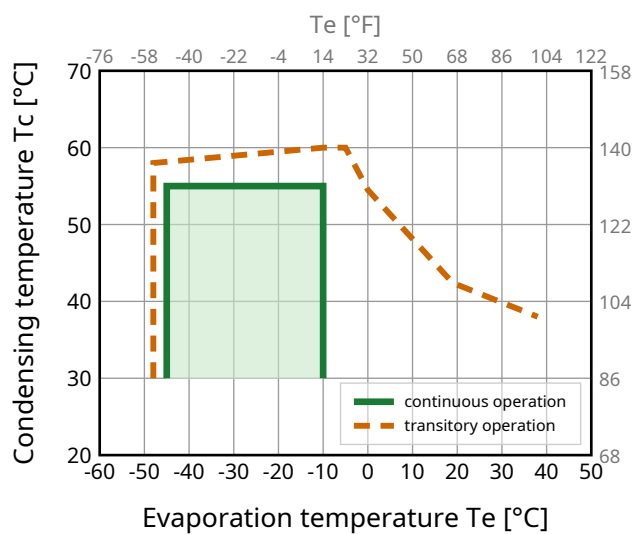
b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range



Model
SC15CLX.2

Configuration 1

Sales code:
104L2897

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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	882	3010	759	1.33	4.54	663	3.09	20.51	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	592	2021	509	0.93	3.18	636	2.96	18.47	CECOMAF LBP
-35 -31	40 104	20 68	40 104	478	1632	411	1.03	3.50	466	2.22	12.96	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	668	2279	574	1.03	3.52	647	3.05	23.57	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	1019	3477	876	1.63	5.57	625	2.96	23.69	AHAM LBP
-25 -13	45 113	32 89.6	45 113	776	2649	668	1.27	4.33	611	2.89	20.89	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]
-45	-49	194	661	166	0.59	2.03	326	1.60	5.13
-40	-40	305	1040	262	0.77	2.61	398	1.90	8.10
-35	-31	437	1490	375	0.93	3.18	469	2.22	11.64
-30	-22	593	2023	510	1.10	3.75	539	2.55	15.87
-25	-13	776	2649	668	1.27	4.33	611	2.89	20.89
-20	-4	991	3380	852	1.45	4.93	686	3.24	26.82
-15	5	1239	4228	1066	1.62	5.53	764	3.60	33.79
-10	14	1525	5204	1312	1.80	6.14	848	3.98	41.93

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

-45	-49	93	317	80	0.31	1.07	296	1.46	2.84
-40	-40	190	648	163	0.49	1.69	384	1.82	5.84
-35	-31	303	1035	261	0.65	2.21	469	2.19	9.36
-30	-22	436	1489	375	0.79	2.70	553	2.56	13.53
-25	-13	592	2021	509	0.93	3.18	636	2.96	18.47
-20	-4	775	2643	666	1.07	3.66	721	3.36	24.32
-15	5	986	3365	848	1.22	4.16	809	3.77	31.23
-10	14	1231	4200	1059	1.37	4.67	900	4.20	39.35

Model

SC15CLX.2

Configuration 2

Sales code:

104L2897

Configuration

Motor configuration	CSCR
Power supply (nominal)	208-230 V/60 Hz 1~
Refrigerant	R452A
Application	LBP
Voltage range	187-254 V
Starting torque	HST
Approvals	UL
Starting device type	relay
Run capacitor	10 μF
Start capacitor	80 μF
LRA (locked rotor amps / 4s/ U(N))	23.4 A
RLA (rated load amps / 1s/ U(N))	4.3 A
Cut in current (U(N))	23.4 A

Ambient/ machine room temperatures minimum /maximum

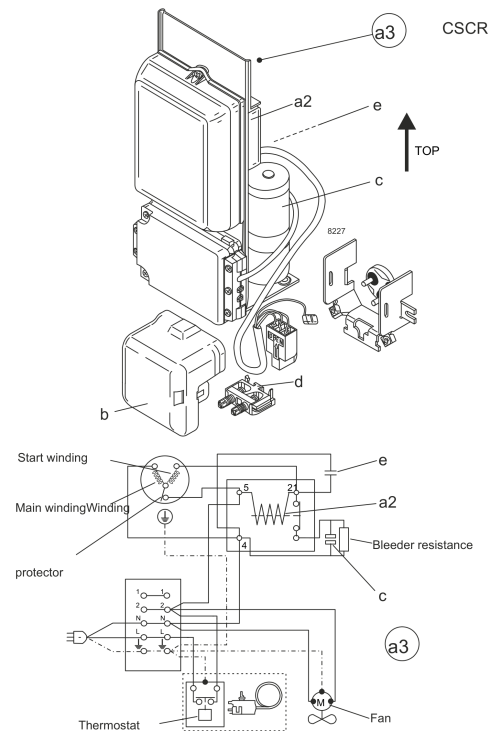
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System Cooling

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Electrical Accessories / Wiring Diagram



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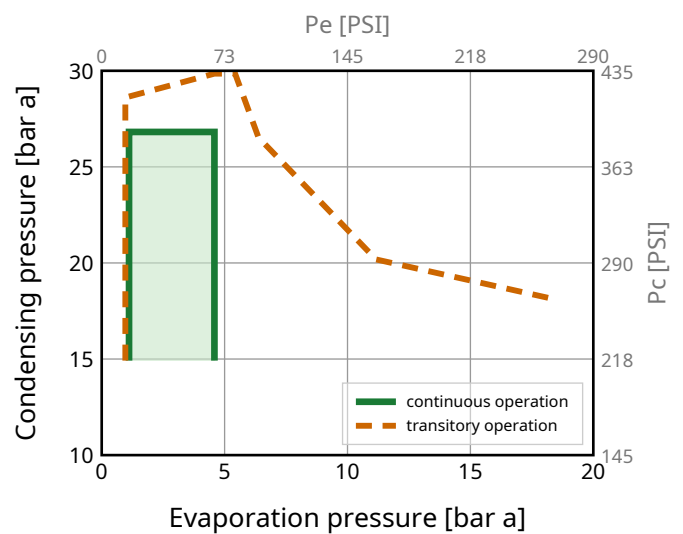
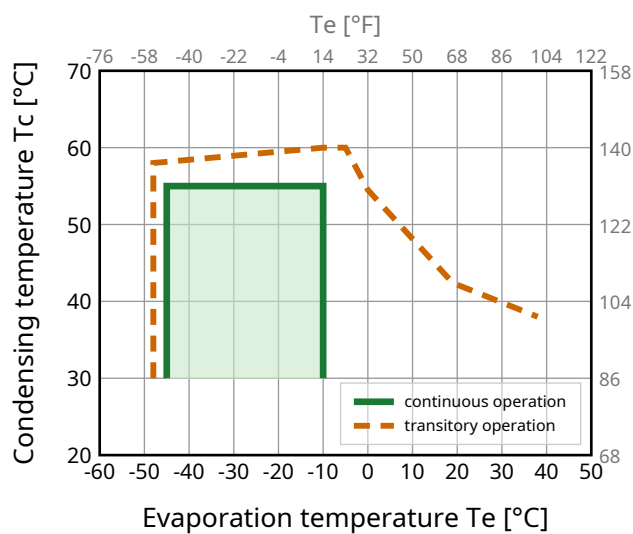
b plastic cover 103N2008

d cord relief 103N1004

Alternative components

a3 SC starter kit (1000mm) 117-7043

Operation Pressure Range



Model
SC15CLX.2

Configuration 2

Sales code:
104L2897

Standard Conditions

R452A, 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]	
-23.3 -10	54.4 129.9	32.2 90	32.2 90	810	2764	697	1.31	4.47	619	2.91	19.61	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	545	1860	469	0.92	3.14	592	2.79	17.59	CECOMAF LBP
-35 -31	40 104	20 68	40 104	430	1468	370	1.00	3.42	430	2.06	12.12	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	619	2111	532	1.02	3.49	605	2.85	22.58	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	939	3204	808	1.60	5.47	586	2.76	22.72	AHAM LBP
-25 -13	45 113	32 89.6	45 113	714	2437	614	1.25	4.26	571	2.69	19.97	opt LBP

Performance Tables

R452A, 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]
-45	-49	164	559	141	0.56	1.92	291	1.43	4.51
-40	-40	268	913	230	0.74	2.53	361	1.75	7.39
-35	-31	392	1337	337	0.91	3.10	431	2.06	10.85
-30	-22	539	1840	464	1.08	3.68	500	2.37	15.01
-25	-13	714	2437	614	1.25	4.26	571	2.69	19.97
-20	-4	920	3137	791	1.43	4.86	645	3.03	25.86
-15	5	1159	3954	997	1.60	5.47	723	3.38	32.82
-10	14	1436	4899	1235	1.78	6.07	807	3.75	41.00

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

-45	-49	72	246	62	0.28	0.96	257	1.28	2.29
-40	-40	163	556	140	0.48	1.62	342	1.66	5.19
-35	-31	270	921	232	0.63	2.16	426	2.04	8.62
-30	-22	396	1351	341	0.78	2.65	509	2.41	12.71
-25	-13	545	1860	469	0.92	3.14	592	2.79	17.59
-20	-4	720	2458	620	1.06	3.63	677	3.17	23.40
-15	5	926	3159	796	1.21	4.13	764	3.56	30.31
-10	14	1164	3973	1001	1.36	4.64	856	3.98	38.49