

Model
SC15CLX.2

Sales code:
104L2890

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	CSIR	CSIR
Power supply (nominal)	220-240 V/50 Hz	220-240 V/50 Hz
Number of phases	1	1
Voltage range	198-254 V	198-254 V
Approvals	VDE, EAC	VDE, EAC
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

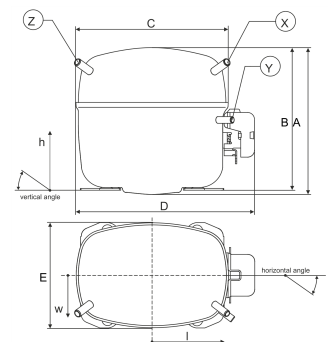
Oil type	POE	Winding resistance main	3.700 Ohm
Oil viscosity	32cSt	Winding resistance aux	13.70 Ohm
Oil quantity	499 / 16.87fl.oz	Max. winding temp.	125 °C
Free gas volume comp.	1,510 cm ³ / 51.06fl.oz	Max. discharge temp.	130°C / 266°F
Motor protection	internal		

Compressor Dimensions

Housing

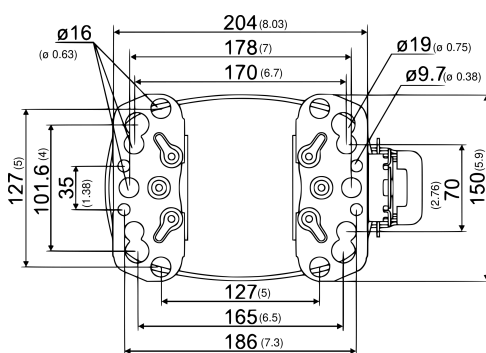
A Height	219mm / 8.62in
B Height	213mm / 8.39in
C Length shell	218mm / 8.58in
D Length w. cover	255mm / 10.04in
E Width	151mm / 5.94in

[Find 3D Model here](#)



Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10.11–10.29 / 0.40–0.41in	øi 6.11–6.29 / 0.24–0.25in	øi 6.11–6.29 / 0.24–0.25in
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

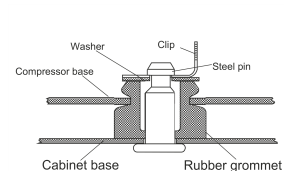
Mounting Accessories



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	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R404A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	20.43 A
RLA (rated load amps / 1s/ U(N))	3.9 A
Cut in current (U(N))	20.43 A

Ambient/ machine room temperatures minimum /maximum

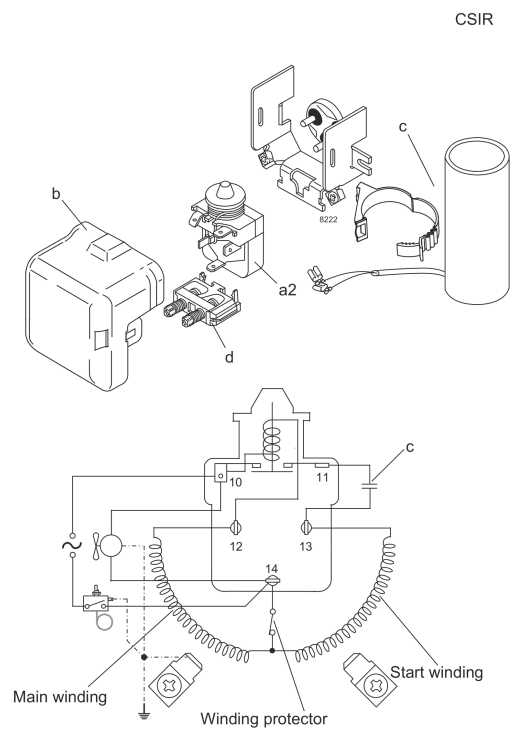
Ambient temperature range: 10 - 38°C / 50 - 100°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

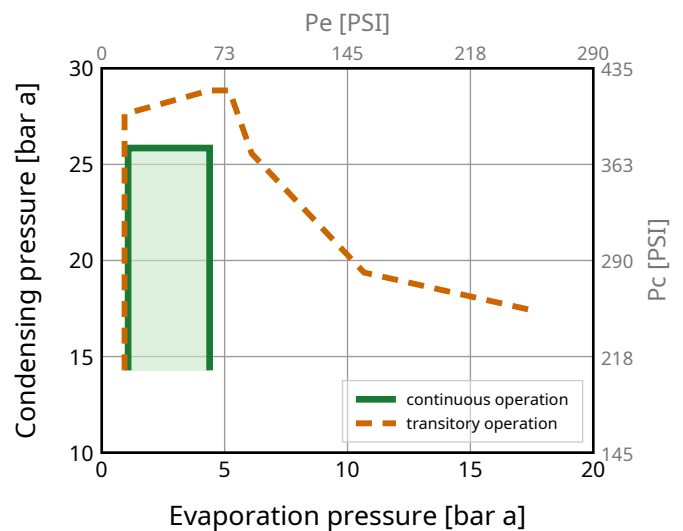
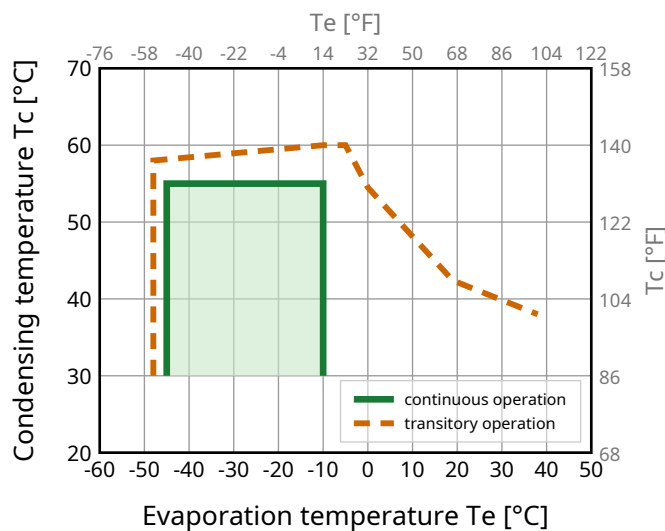
a2 relay 117U6019

c start capacitor (80µF) 117U5017

d cord relief 103N1004

b plastic cover 103N2009

Operation Pressure Range



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Configuration 1

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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	724	2470	622	1.18	4.03	613	3.85	16.83	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	486	1659	418	0.83	2.82	588	3.77	15.16	CECOMAF LBP
-35 -31	40 104	20 68	40 104	392	1339	337	0.91	3.11	431	3.31	10.63	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	548	1870	471	0.92	3.13	598	3.83	19.34	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	836	2853	719	1.45	4.94	577	3.77	19.44	AHAM LBP
-25 -13	45 113	32 89.6	45 113	637	2173	548	1.13	3.85	565	3.73	17.14	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]
-45	-49	159	542	137	0.53	1.80	301	2.91	4.21
-40	-40	250	853	215	0.68	2.32	368	3.10	6.64
-35	-31	358	1223	308	0.83	2.82	433	3.31	9.55
-30	-22	486	1660	418	0.98	3.33	498	3.51	13.03
-25	-13	637	2173	548	1.13	3.85	565	3.73	17.14
-20	-4	813	2774	699	1.28	4.38	634	3.95	22.01
-15	5	1017	3469	874	1.44	4.91	706	4.18	27.72
-10	14	1251	4270	1076	1.60	5.45	783	4.42	34.41

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

-45	-49	76	260	65	0.28	0.95	274	2.83	2.33
-40	-40	156	532	134	0.44	1.50	355	3.05	4.79
-35	-31	249	849	214	0.57	1.96	433	3.28	7.68
-30	-22	358	1222	308	0.70	2.39	511	3.52	11.10
-25	-13	486	1659	418	0.83	2.82	588	3.77	15.16
-20	-4	636	2169	547	0.95	3.26	666	4.03	19.96
-15	5	809	2761	696	1.08	3.70	747	4.29	25.62
-10	14	1010	3446	869	1.21	4.14	832	4.56	32.28

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Configuration 2

Sales code:

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Configuration

Motor configuration	CSIR
Power supply (nominal)	220-240 V/50 Hz 1~
Refrigerant	R452A
Application	LBP
Voltage range	198-254 V
Starting torque	HST
Approvals	VDE, EAC
Starting device type	relay
Run capacitor	-/-
Start capacitor	80 µF
LRA (locked rotor amps / 4s/ U(N))	20.43 A
RLA (rated load amps / 1s/ U(N))	3.9 A
Cut in current (U(N))	20.43 A

Ambient/ machine room temperatures minimum /maximum

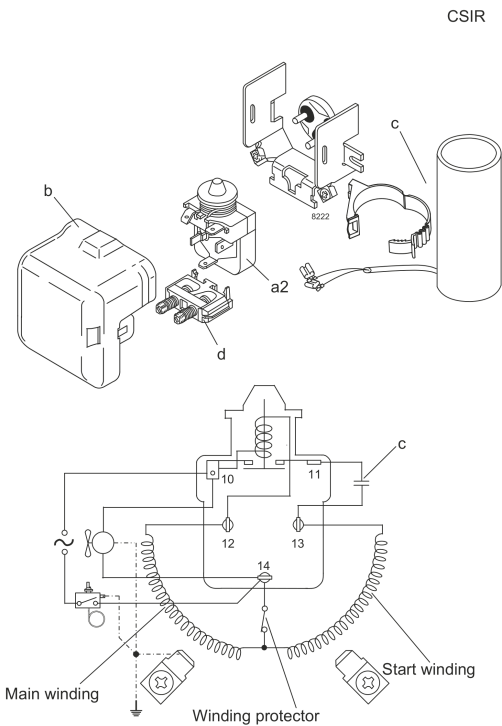
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Components

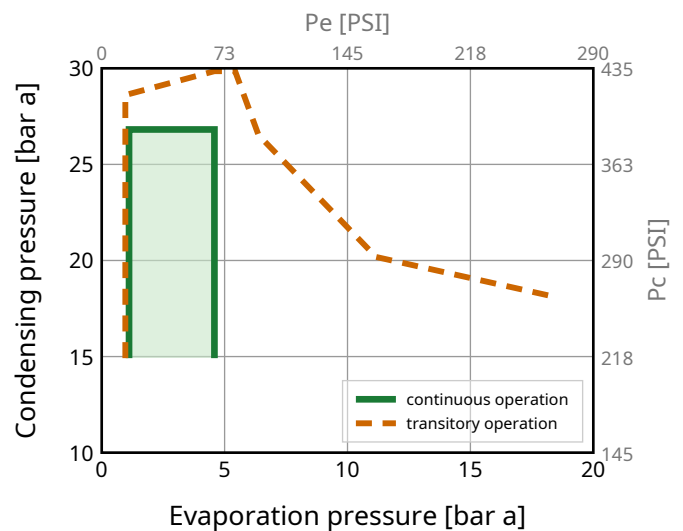
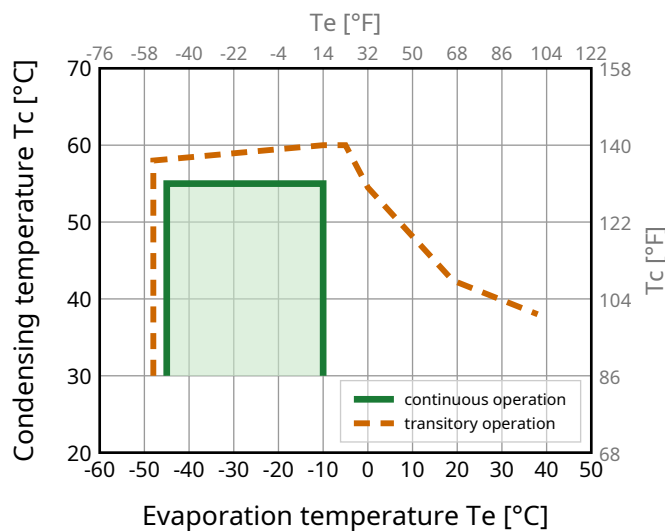
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c start capacitor (80µF) 117U5017

d cord relief 103N1004

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Operation Pressure Range



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Configuration 2

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Standard Conditions

R452A, 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	672	2294	578	1.17	3.99	575	3.52	16.27	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	453	1546	390	0.82	2.81	551	3.44	14.62	CECOMAF LBP
-35 -31	40 104	20 68	40 104	358	1221	308	0.90	3.05	400	2.95	10.08	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	512	1747	440	0.91	3.11	561	3.47	18.69	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	775	2645	667	1.43	4.88	542	3.39	18.76	AHAM LBP
-25 -13	45 113	32 89.6	45 113	591	2016	508	1.12	3.81	530	3.35	16.52	opt LBP

Performance Tables

R452A, 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]
-45	-49	140	478	120	0.51	1.73	276	2.65	3.85
-40	-40	225	769	194	0.66	2.27	339	2.80	6.22
-35	-31	327	1116	281	0.81	2.78	402	2.96	9.06
-30	-22	448	1528	385	0.96	3.29	465	3.15	12.46
-25	-13	591	2016	508	1.12	3.81	530	3.35	16.52
-20	-4	759	2590	653	1.27	4.34	597	3.59	21.35
-15	5	955	3259	821	1.43	4.88	668	3.86	27.05
-10	14	1182	4035	1017	1.59	5.41	745	4.17	33.76

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

-45	-49	66	223	56	0.26	0.90	249	2.56	2.08
-40	-40	140	478	121	0.43	1.47	326	2.76	4.46
-35	-31	228	777	196	0.57	1.94	401	2.96	7.27
-30	-22	331	1130	285	0.70	2.37	476	3.19	10.62
-25	-13	453	1546	390	0.82	2.81	551	3.44	14.62
-20	-4	597	2036	513	0.95	3.24	628	3.71	19.38
-15	5	765	2610	658	1.08	3.69	708	4.02	25.05
-10	14	961	3278	826	1.21	4.14	792	4.36	31.76