

Model
SC12CLX.2

Sales code:
104L1686

Compressor Data

Refrigerant(s)	R404A / R507
Refr. charge - tech. limit	1300g / 45.86oz
Weight	13.20 kg / 29.10lbs
Displacement	12.87 cm3 / 0.79cu.in
Compressors on pallet	80



General – Configurations With SC12CLX.2

-	Conf. 1
Motor configuration	CSIR
Power supply (nominal)	115 V/60 Hz
Number of phases	1
Voltage range	103-127 V
Approvals	UL
Starting torque	HST
Refrigerant	R404A
Application	LBP
Hot gas defrost	OK
Long interval pull down	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	1.000 Ohm
Oil viscosity	32cSt	Winding resistance aux	4.20 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.	135°C / 275°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

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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]	107/183/55 / 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

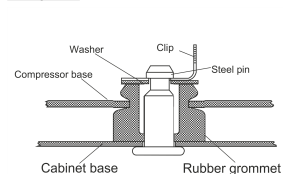
Mounting Accessories



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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Motor configuration	CSIR
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	-/-
Start capacitor	240 µF
LRA (locked rotor amps / 4s/ U(N))	39.7 A
RLA (rated load amps / 1s/ U(N))	7.6 A
Cut in current (U(N))	39.7 A

Ambient/ machine room temperatures minimum /maximum

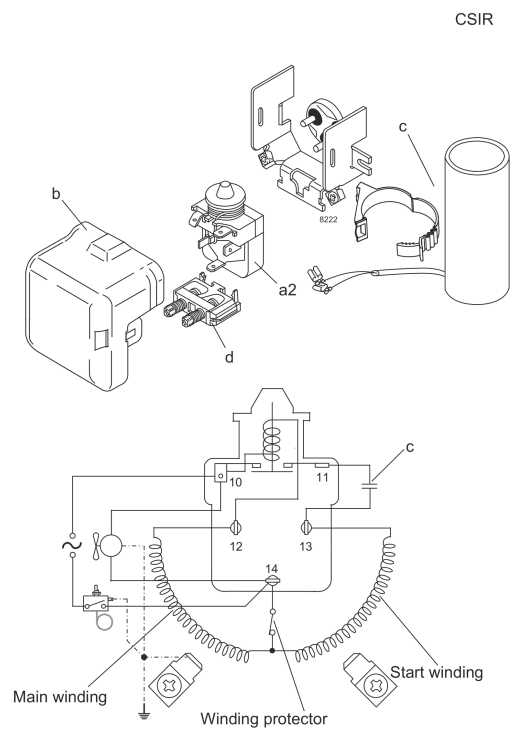
Ambient temperature range: 10 - 43°C / 50 - 109°F

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

System Cooling

fan 3m/s

Electrical Accessories / Wiring Diagram



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Components

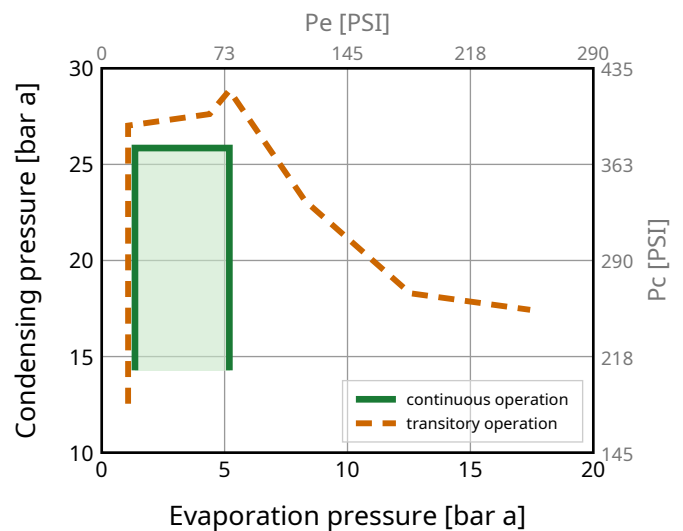
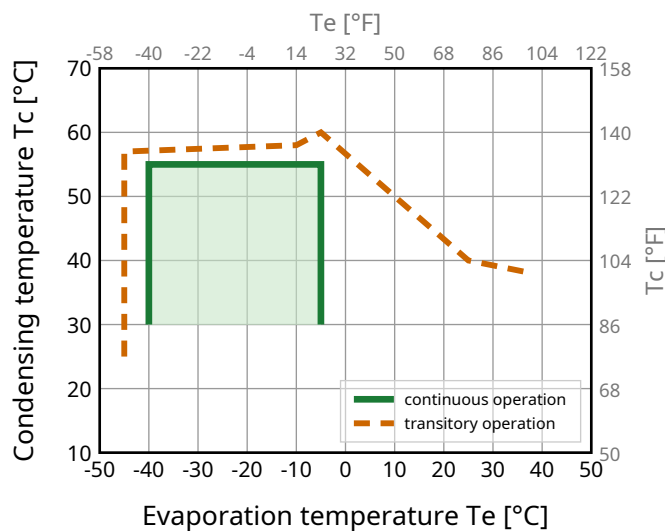
a2 relay 117U6020

c start capacitor (240µF) 117U5023

d cord relief 103N1004

b plastic cover 103N2008

Operation Pressure Range



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Standard Conditions

R404A, 115 V/60 Hz, CSIR, fan 3m/s

pe	pc	RGT	Tliq	Cooling capacity			COP	EER	P	I	$\dot{m}$	
[°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	725	2474	624	1.14	3.90	635	7.21	16.86	ASHRAE LBP
-25 -13	55 131	32 89.6	55 131	486	1658	418	0.80	2.74	604	7.00	15.15	CECOMAF LBP
-35 -31	40 104	20 68	40 104	372	1269	320	0.84	2.86	444	6.10	10.08	EN12900 LBP
-23.3 -10	48.8 119.8	4.4 39.9	48.8 119.8	540	1843	464	0.86	2.94	628	7.16	19.06	ARI540 LBP
-23.3 -10	40.6 105.1	32.2 90	32.2 90	814	2777	700	1.33	4.52	614	7.09	18.92	AHAM LBP
-25 -13	45 113	32 89.6	45 113	623	2125	536	1.05	3.57	595	6.95	16.76	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	$\dot{m}$
[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[W]	[A]	[kg/h]
-40	-40	214	731	184	0.62	2.12	346	5.66	5.69
-35	-31	334	1140	287	0.77	2.62	435	6.03	8.91
-30	-22	469	1601	404	0.91	3.10	517	6.46	12.57
-25	-13	623	2125	536	1.05	3.57	595	6.95	16.76
-20	-4	798	2721	686	1.18	4.04	674	7.50	21.60
-15	5	997	3402	858	1.32	4.50	756	8.10	27.19
-10	14	1225	4178	1053	1.45	4.94	845	8.76	33.67
-5	23	1483	5060	1275	1.57	5.35	945	9.48	41.17

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

-40	-40	108	370	93	0.38	1.29	287	5.43	3.33
-35	-31	223	760	191	0.55	1.88	403	5.89	6.87
-30	-22	347	1185	299	0.68	2.33	508	6.42	10.77
-25	-13	486	1658	418	0.80	2.74	604	7.00	15.15
-20	-4	641	2188	552	0.92	3.14	696	7.64	20.14
-15	5	817	2787	703	1.04	3.54	788	8.34	25.86
-10	14	1016	3465	873	1.15	3.93	882	9.09	32.46
-5	23	1241	4234	1067	1.26	4.31	983	9.91	40.11