

Model

Designation	SC12CLX.2	115V/60Hz 1~	Sales code:	104L1698
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R507
Oil viscosity	32cSt	Displacement	12,87cm ³ / 0,79cu.in
Oil quantity	500cm ³ / 16,9fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1510cm ³ / 51,1fl.oz		
Weight	13,2kg / 29,1lbs		
Motor protection	1# internal		
Winding resistance main	1Ω (at 25°C)		
Winding resistance aux	4,2Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



General - Configurations with SC12CLX.2

Conf. 1

Motor configuration	CSIR
Power supply (nominal)	115V/60Hz
Number of phases	1
Voltage range	103-127V
Approvals	UL
Starting torque	HST
Note	Electrical equipment is included and pre-assembled to compressor.

Applications with SC12CLX.2

Conf. 1

Refrigerant	R404A
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

Electrical data - Configurations with SC12CLX.2

Conf. 1

Starting device type	relay
Run capacitor	-/-
Start capacitor	240μF
LRA (locked rotor amps / 4s/ U(N))	39,7A
RLA (rated load amps / 1s/ U(N))	7,6A
Cut in current (U(N))	39,7A

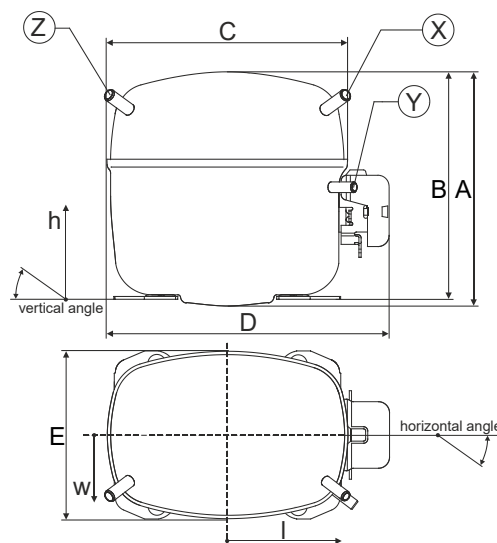
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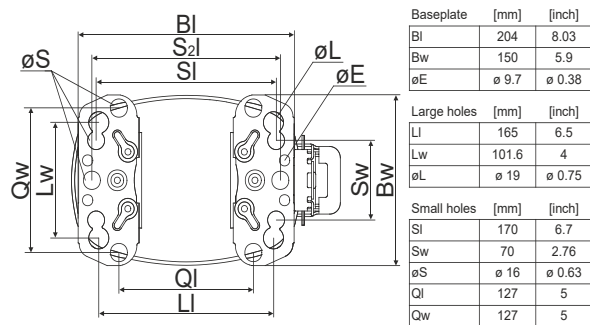
Compressor dimensions

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

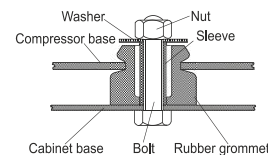
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 8,11-8,29	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,32-0,33	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle	±2° 37°	37°	143°
Vertical angle	±2° 30°	0°	150°
Position l/h/w [mm]	107/183/55	115/100/63	-107/183/55
	[in] 4,2/7,2/2,2	4,5/3,9/2,5	-4,2/7,2/2,2
Straight tube l.	[mm] 12	12	12
	[in] 0,5	0,5	0,5



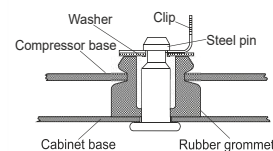
Compressor fixation



Bolt joint



Snap-on



Mounting accessories

	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

Application notes

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

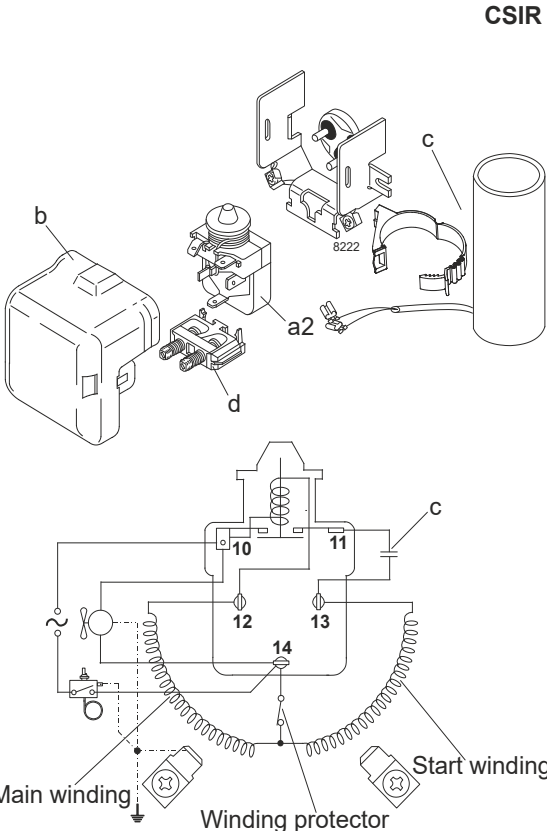
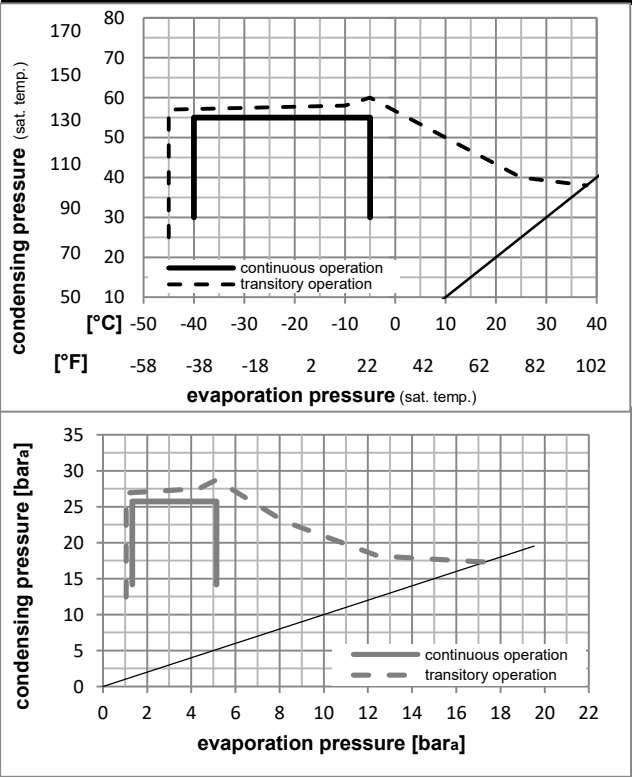
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Configuration	Electrical accessories / wiring diagram			
Motor configuration	CSIR			CSIR
Power supply (nominal)	115V/60Hz 1~			
Refrigerant	R404A			
Application	LBP			
Voltage range	103-127V			
Starting torque	HST			
Approvals	UL			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 43°C / 50 - 110°F
Machine room temperature range:	10 - 48°C / 50 - 119°F
Compressor cooling:	fan 3m/s

Operation pressure range



Components (inci. and pre. assemb.)

a2	relay	117U6020
c	start capacitor (240µF)	117U5023
d	cord relief	103N1004
b	plastic cover	103N2008

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Optimization + standard conditions

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

Evaporating pressure (saturation temperature)														
Condensing pressure (saturation temperature)														
Return gas temp.														
Liquid temp.														
Cooling capacity														
COP														
EER														
Power consumption														
Current consumption														
Ref. mass flow														
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	m		
[°C]										[W]	[A]	[kg/h]		
[°C]	-23	54	32	32	723,4	2471	622,6	1,14	3,89	0,98	634,4	7,20	16,86	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	485,9	1659	418,1	0,80	2,75	0,69	604,1	7,00	15,18	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	371,8	1270	319,9	0,84	2,86	0,72	444,0	6,10	10,10	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	537,8	1837	462,8	0,86	2,93	0,74	627,0	7,16	19,04	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	812,5	2775	699,2	1,33	4,53	1,14	613,2	7,09	18,93	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	334,2	1141	287,6	0,77	2,62	0,66	435,0	6,03	8,93	opt
[°F]	-31	113	90	113										

Performance tables

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

	pe		Cooling capacity			COP	EER		P1	I	m
	[°C]	[°F]	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	[kg/h]
[°C / °F]	-34	-30	348,4	1190	299,8	0,78	2,68	0,67	444,4	6,08	9,32
cond. pressure	-34	-30	348,4	1190	299,8	0,78	2,68	0,67	444,4	6,08	9,32
pc= 45/113	-29	-20	501,7	1713	431,7	0,94	3,21	0,81	534,6	6,57	13,48
return gas temp.	-23	-10	678,5	2317	583,9	1,09	3,73	0,94	621,2	7,12	18,33
RGT= 32/90	-21	-5	777,0	2654	668,7	1,17	3,99	1,01	664,8	7,43	21,07
liquid temp	-15	5	997,2	3406	858,2	1,32	4,51	1,14	755,7	8,10	27,24
Tliq= 45/113	-5	23	1483,0	5065	1276,3	1,57	5,36	1,35	945,3	9,48	41,23
[°C / °F]	-34	-30	235,9	806	203,0	0,57	1,94	0,49	415,2	5,95	7,30
cond. pressure	-34	-30	235,9	806	203,0	0,57	1,94	0,49	415,2	5,95	7,30
pc= 55/131	-29	-20	376,8	1287	324,3	0,71	2,43	0,61	529,6	6,54	11,72
return gas temp	-23	-10	535,6	1829	461,0	0,84	2,88	0,73	635,1	7,21	16,78
RGT= 32/90	-21	-5	623,1	2128	536,3	0,91	3,10	0,78	686,1	7,56	19,59
liquid temp	-15	5	816,9	2790	703,0	1,04	3,54	0,89	787,6	8,34	25,91
Tliq= 55/131	-5	23	1240,8	4238	1067,9	1,26	4,31	1,09	982,6	9,91	40,16