

Model

Designation	SC18CLX.2	208-230V/60Hz 1~	Sales code:	104L2172
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Compressor design

Oil type	Polyolester	Refrigerant(s)	R404A, R507
Oil viscosity	32cSt	Displacement	17,69cm ³ / 1,08cu.in
Oil quantity	550cm ³ / 18,6fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1460cm ³ / 49,4fl.oz		
Weight	13,8kg / 30,4lbs		
Motor protection	1# internal		
Winding resistance main	2,69Ω (at 25°C)		
Winding resistance aux	9,49Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	130°C / 266°F		



General - Configurations with SC18CLX.2

	Conf. 1
Motor configuration	CSCR
Power supply (nominal)	208-230V/60Hz
Number of phases	1
Voltage range	187-254V
Approvals	VDE, UL
Starting torque	HST
Note	- / -

Applications with SC18CLX.2

	Conf. 1
Refrigerant	R404A
Application	LBP
System cooling	fan 3m/s
Hot gas defrost	OK
Long interval pull down	OK

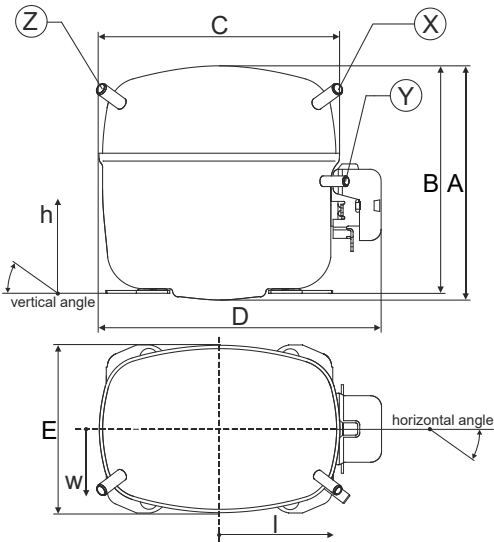
Electrical data - Configurations with SC18CLX.2

	Conf. 1
Starting device type	relay
Run capacitor	10μF
Start capacitor	80μF
LRA (locked rotor amps / 4s/ U(N))	27,32A
RLA (rated load amps / 1s/ U(N))	4,6A
Cut in current (U(N))	27,32A

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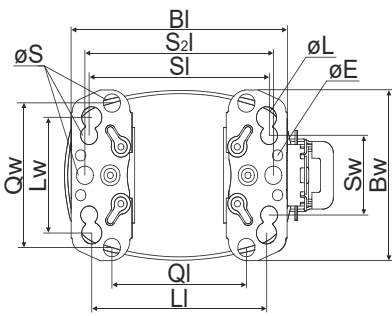
Compressor dimensions

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



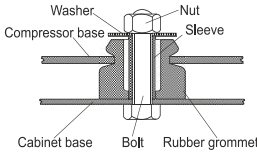
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9,54-9,72	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,38-0,38	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle	±2° 37°	37°	143°
Vertical angle	±2° 30°	0°	150°
Position l/h/w [mm]	107/193/55	115/110/63	-107/193/55
	[in] 4,2/7,6/2,2	4,5/4,3/2,5	-4,2/7,6/2,2
Straight tube l.	[mm] 12	12	12
	[in] 0,5	0,5	0,5

Compressor fixation

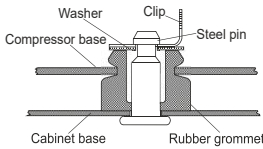


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes		
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes		
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

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

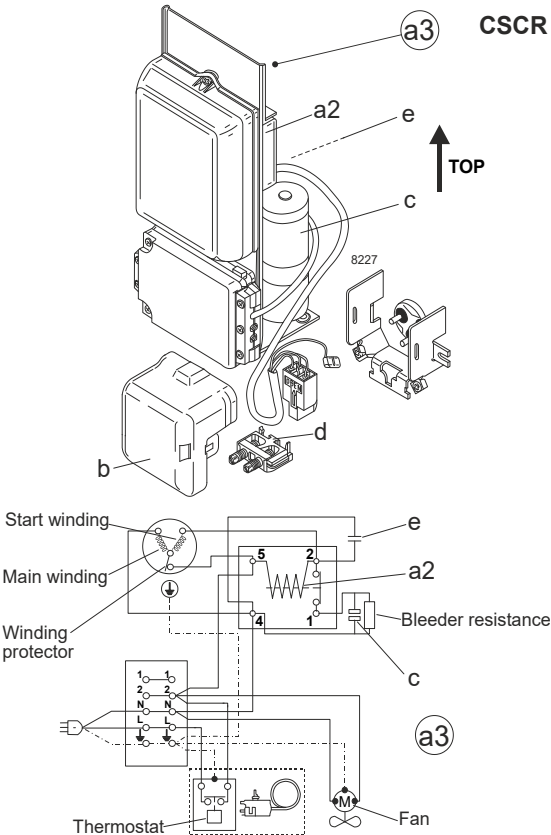
Provision for PE Grounding is located at the PE Stamp on the compressor

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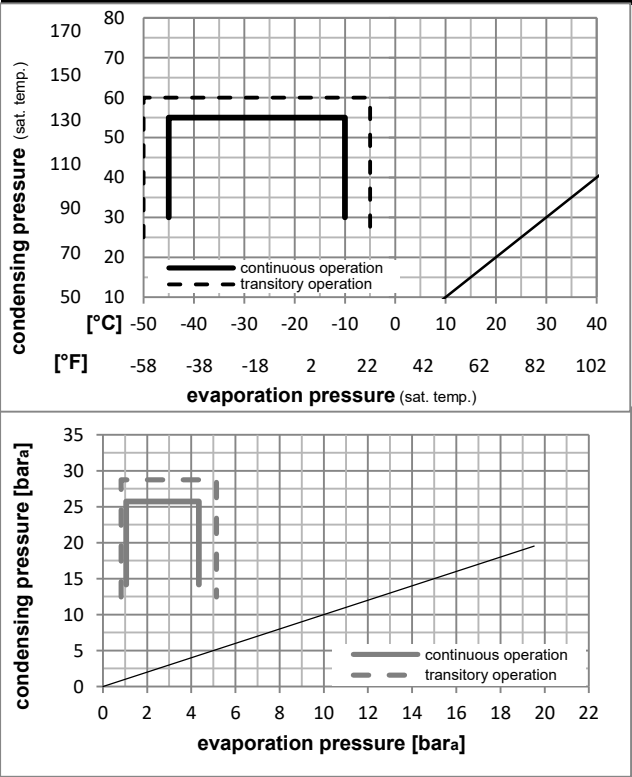
Configuration		Electrical accessories / wiring diagram		
Motor configuration	CSCR			
Power supply (nominal)	208-230V/60Hz 1~			
Refrigerant	R404A			
Application	LBP			
Voltage range	187-254V			
Starting torque	HST			
Approvals	VDE			
	UL			

Ambient/ machine room temperatures minimum /maximum

Ambient temperature range:	10 - 38°C / 50 - 101°F
Machine room temperature range:	10 - 43°C / 50 - 110°F
Compressor cooling:	fan 3m/s



Operation pressure range



Components		
a3	SC starter kit	117-7066
b	plastic cover	103N2008
d	cord relief	103N1004

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Optimization + standard conditions

R404A, 230V/60Hz, CSCR, fan 3m/s, VDE, UL

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)						Power consumption			
Return gas temp.					Liquid temp.						Current consumption			
Cooling capacity					COP		EER		P1		I		Ref. mass flow	
pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	[W]	[A]	ṁ		
[°C]	[°C]											[kg/h]		
[°C]	-23	54	32	32	1111,8	3797	956,9	1,39	4,76	1,20	798,1	3,82	25,91	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	764,5	2611	657,9	1,00	3,41	0,86	765,6	3,68	23,89	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	589,6	2014	507,4	1,03	3,51	0,88	573,5	2,94	16,02	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	808,1	2760	695,4	1,03	3,50	0,88	788,2	3,78	28,61	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	1198,2	4092	1031,2	1,56	5,32	1,34	768,8	3,71	27,92	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	542,1	1851	466,5	0,96	3,29	0,83	562,9	2,92	14,49	opt
[°F]	-31	113	90	113										

Performance tables

R404A, 230V/60Hz, CSCR, fan 3m/s, VDE, 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]	-45	-49	112,7	385	97,0	0,36	1,23	0,31	312,2	2,20	2,99
cond. pressure	-35	-31	542,1	1851	466,5	0,96	3,29	0,83	562,9	2,92	14,49
pc= 45/113	-30	-22	737,4	2518	634,6	1,11	3,80	0,96	663,2	3,28	19,79
return gas temp.	-25	-13	937,9	3203	807,2	1,25	4,26	1,07	752,0	3,63	25,30
RGT= 32/90	-20	-4	1157,4	3953	996,1	1,39	4,74	1,20	833,5	3,98	31,40
liquid temp	-15	5	1409,7	4814	1213,2	1,55	5,28	1,33	911,5	4,33	38,51
Tliq= 45/113	-10	14	1708,2	5834	1470,1	1,73	5,89	1,48	990,0	4,67	47,04
[°C / °F]	-45	-49	-105,3	-360	-90,7	-0,46	-1,56	-0,39	230,8	2,02	-3,23
cond. pressure	-35	-31	382,6	1307	329,2	0,71	2,44	0,61	535,4	2,86	11,83
pc= 55/131	-30	-22	579,9	1981	499,1	0,88	3,01	0,76	657,8	3,27	18,02
return gas temp	-25	-13	764,5	2611	657,9	1,00	3,41	0,86	765,6	3,68	23,89
RGT= 32/90	-20	-4	949,9	3244	817,5	1,10	3,76	0,95	862,8	4,09	29,89
liquid temp	-15	5	1149,9	3927	989,6	1,21	4,12	1,04	953,3	4,50	36,47
Tliq= 55/131	-10	14	1378,1	4707	1186,0	1,32	4,52	1,14	1041,1	4,90	44,12