

Model

Designation	SC18CLX.2	220-240V/50Hz 1~	Sales code:	104L2191
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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	3,3Ω (at 25°C)		
Winding resistance aux	16Ω (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	CSIR
Power supply (nominal)	208-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	VDE, CCC, EAC
Starting torque	HST
Note	Compressor with noise optimization kit.

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	-/-
Start capacitor	125μF
LRA (locked rotor amps / 4s/ U(N))	25A
RLA (rated load amps / 1s/ U(N))	4,5A
Cut in current (U(N))	25A

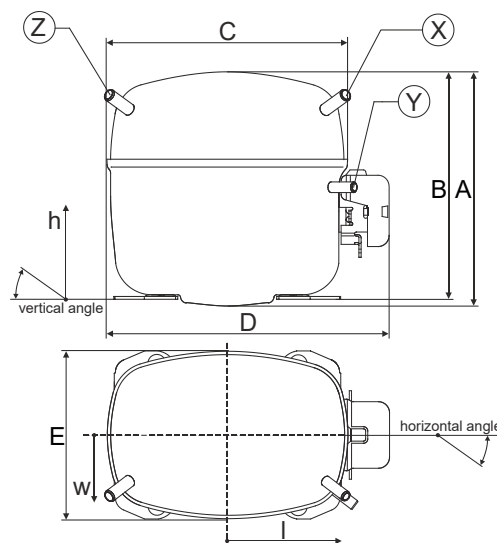
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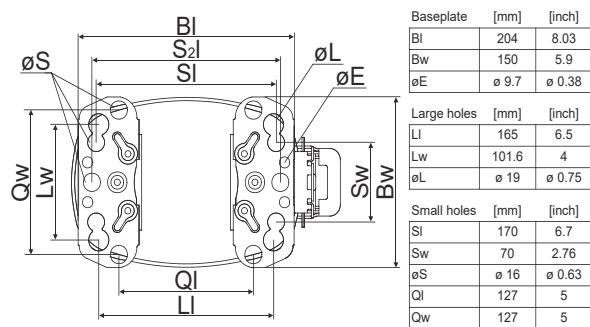
Compressor dimensions

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

Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 10,11-10,29	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside) [in]	øi 0,4-0,41	øi 0,24-0,25	øi 0,24-0,25
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

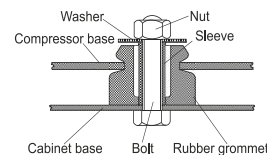


Compressor fixation

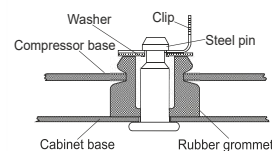


Baseplate	[mm]	[inch]
BI	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38
Large holes	[mm]	[inch]
LI	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75
Small holes	[mm]	[inch]
SI	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
QI	127	5
Qw	127	5

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

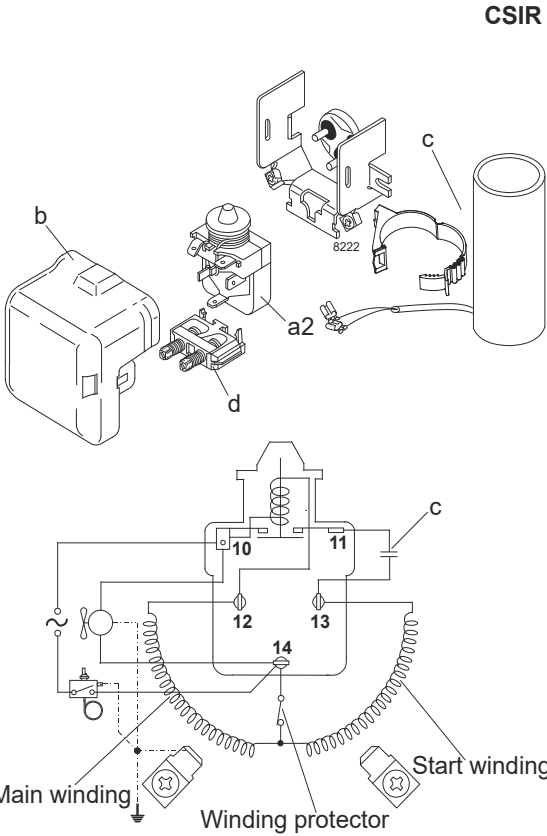
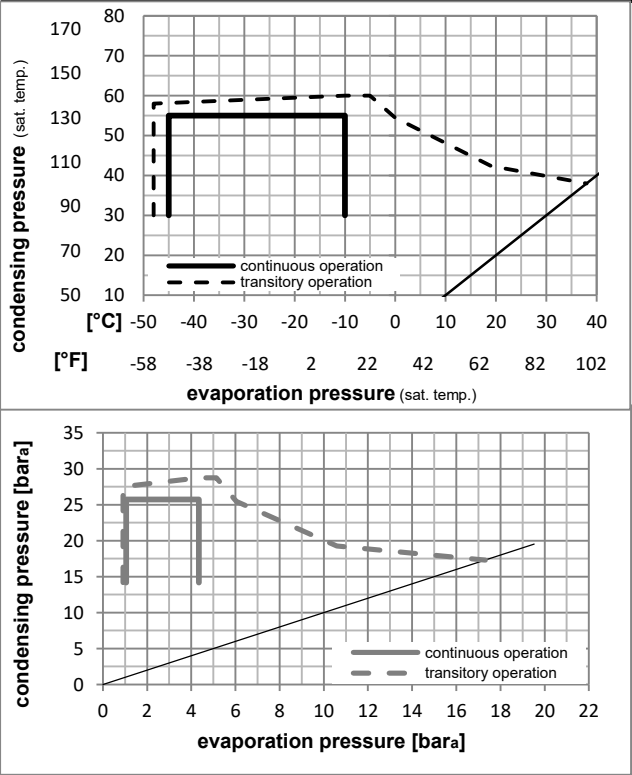
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Configuration	Electrical accessories / wiring diagram				
Motor configuration	CSIR	CSIR			
Power supply (nominal)	208-240V/50Hz 1~				
Refrigerant	R404A				
Application	LBP				
Voltage range	198-254V				
Starting torque	HST				
Approvals	VDE				
	CCC				
	EAC				

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		
a2	relay	117U6013
c	start capacitor (125μF)	117U5012
d	cord relief	103N1004
b	plastic cover	103N2009

Model

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Optimization + standard conditions

R404A, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

Evaporating pressure (saturation temperature)					Condensing pressure (saturation temperature)					Power consumption																																		
Return gas temp.					Current consumption																																							
Liquid temp.					Ref. mass flow																																							
Cooling capacity					COP					EER					P1					I					m																			
[W]					[Btu/h]					[kcal/h]					[W/W]					[Btu/Wh]					[kcal/Wh]					[W]					[A]					[kg/h]				
[°C]	-23	54	32	32	854,8	2919	735,7	1,24	4,23	1,07	690,0	4,29	19,92	ASHRAE LBP																														
[°F]	-10	130	90	90																																								
															ASHRAE LBP																													
[°C]	-25	55	32	55	576,8	1970	496,4	0,88	3,00	0,76	656,4	4,18	18,03	cecomaf LBP																														
[°F]	-13	131	90	131																																								
															cecomaf LBP																													
[°C]	-35	40	20	40	438,0	1496	376,9	0,89	3,03	0,76	493,9	3,54	11,90	EN12900 LBP																														
[°F]	-31	104	68	104																																								
															EN12900 LBP																													
[°C]	-23	49	4,4	49	638,2	2179	549,2	0,94	3,20	0,81	680,7	4,25	22,59	ARI540 LBP																														
[°F]	-10	120	40	120																																								
															ARI540 LBP																													
[°C]	-23	41	32	32	960,4	3280	826,5	1,47	5,03	1,27	651,6	4,17	22,38	AHAM LBP																														
[°F]	-10	105	90	90																																								
															AHAM LBP																													
[°C]	-35	45	32	45	397,5	1358	342,1	0,81	2,76	0,70	491,4	3,54	10,63	opt																														
[°F]	-31	113	90	113																																								
															opt																													

Performance tables

R404A, 220V/50Hz, CSIR, fan 3m/s, VDE, CCC, EAC

	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	108,1	369	93,1	0,27	0,93	0,23	397,2	3,01	2,87
cond. pressure	-35	-31	397,5	1358	342,1	0,81	2,76	0,70	491,4	3,54	10,63
pc= 45/113	-30	-22	558,6	1908	480,7	1,00	3,41	0,86	559,6	3,83	14,99
return gas temp.	-25	-13	738,1	2521	635,2	1,16	3,94	0,99	639,0	4,12	19,91
RGT= 32/90	-20	-4	941,7	3216	810,4	1,29	4,42	1,11	727,5	4,42	25,55
liquid temp	-15	5	1174,9	4012	1011,1	1,43	4,88	1,23	823,0	4,73	32,09
Tliq= 45/113	-10	14	1443,4	4929	1242,2	1,56	5,34	1,35	923,4	5,06	39,75
[°C / °F]	-45	-49	11,6	40	10,0	0,04	0,12	0,03	325,0	2,89	0,36
cond. pressure	-35	-31	280,6	958	241,5	0,60	2,03	0,51	471,1	3,51	8,68
pc= 55/131	-30	-22	422,5	1443	363,6	0,75	2,58	0,65	559,9	3,84	13,13
return gas temp	-25	-13	576,8	1970	496,4	0,88	3,00	0,76	656,4	4,18	18,03
RGT= 32/90	-20	-4	749,1	2558	644,7	0,99	3,37	0,85	758,4	4,52	23,57
liquid temp	-15	5	945,2	3228	813,4	1,09	3,74	0,94	864,0	4,88	29,97
Tliq= 55/131	-10	14	1170,4	3997	1007,3	1,21	4,12	1,04	970,8	5,24	37,47