

Model

Designation	SC18CLX.2	115V/60Hz 1~	Sales code:	104L2190
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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	556cm ³ / 18,8fl.oz	Compressors on pallet	80
Refr. charge - tech. limit	1300g / 45,9oz		
Free gas volume comp.	1460cm ³ / 49,4fl.oz		
Weight	14,2kg / 31,3lbs		
Motor protection	external		
Winding resistance main	0,6Ω (at 25°C)		
Winding resistance aux	3,2Ω (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)	115V/60Hz
Number of phases	1
Voltage range	103-127V
Approvals	UL
Starting torque	HST
Note	Protector and cover are included and pre-assembled to compressor.

Applications with SC18CLX.2

Conf. 1

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

Electrical data - Configurations with SC18CLX.2

Conf. 1

Starting device type	relay
Run capacitor	23,5μF
Start capacitor	410μF
LRA (locked rotor amps / 4s/ U(N))	63A
RLA (rated load amps / 1s/ U(N))	9,6A
Cut in current (U(N))	63A

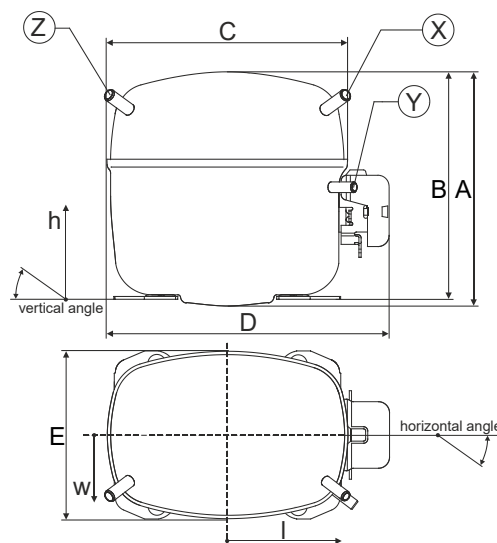
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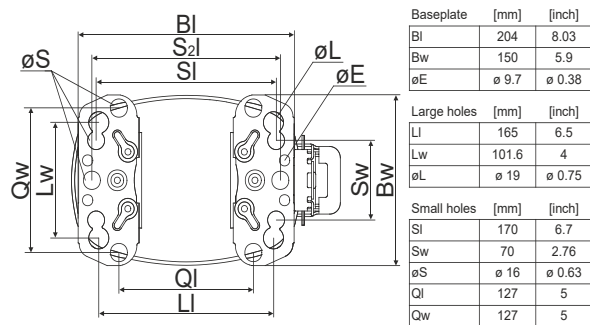
Compressor dimensions

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

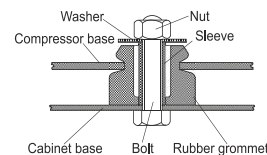
Connectors	Suction X	Discharge Y	Process Z
Diameter [mm]	øi 9,54-9,72	øi 6,41-6,59	øi 6,41-6,59
(i:inside, o:outside) [in]	øi 0,38-0,38	øi 0,25-0,26	øi 0,25-0,26
Material	copper	copper	copper
Horizontal angle	±2° 37°	37°	143°
Vertical angle	±2° 30°	0°	150°
Position l/h/w [mm]	107/193/55	115/110/63	-107/193/55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



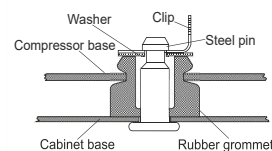
Compressor fixation



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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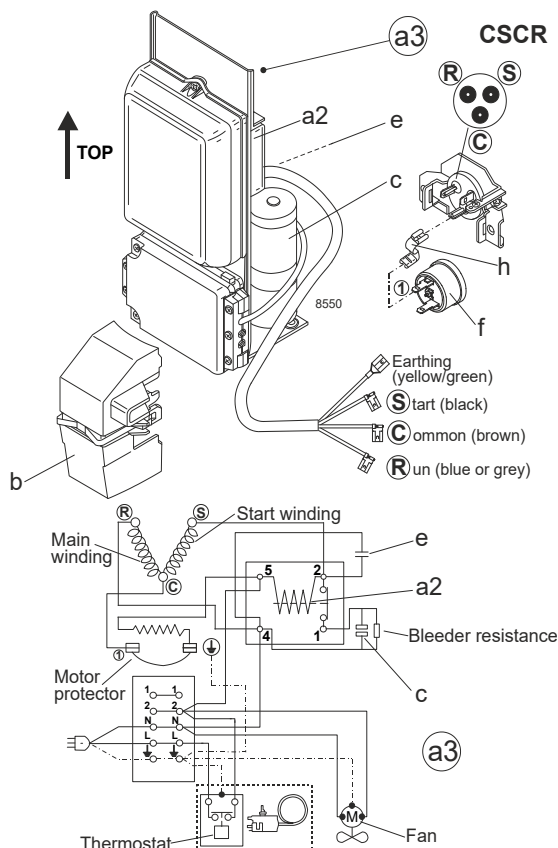
Configuration

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

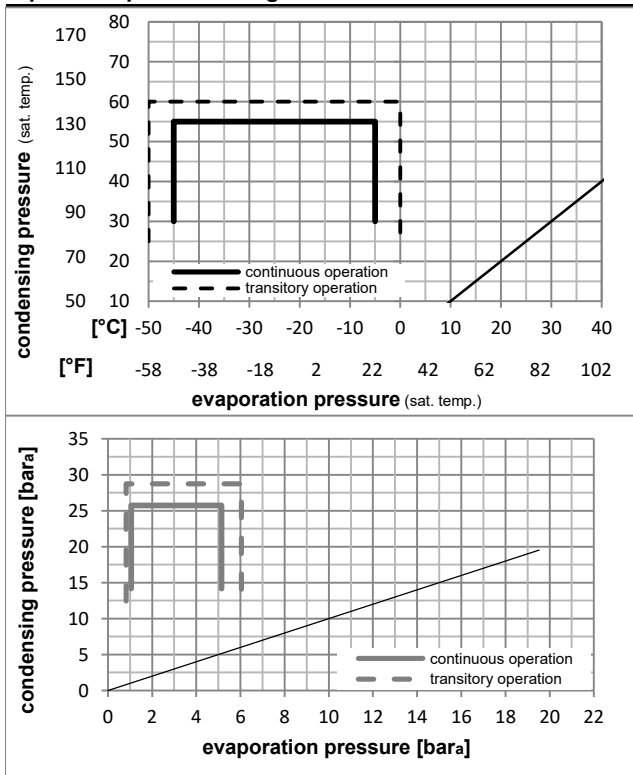
Electrical accessories / wiring diagram

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 (protector (f)+ holder (h)+ cover (b): incl. and pre assembl.)

a3	SC starter kit	117-7045
f	ext. protector (T0761/46)	117U3212
b	plastic cover + clamp	117U1021

Alternative comp.

a2	potential relay (RVA 7AA3R)	117-7441
e	run capacitor (23,5µF, 6.3mm)	117-7114
c	start capacitor (410µF, 6.3mm)	117U5043
f	ext. protector (T0761/46)	117U3212
b	plastic cover + clamp	117U1021

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Optimization + standard conditions

R404A, 115V/60Hz, CSCR, 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	1072,9	3664	923,4	1,31	4,48	1,13	818,1	8,99	25,00	ASHRAE LBP
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	737,7	2519	634,9	0,94	3,21	0,81	784,8	8,76	23,06	cecomaf LBP
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	569,0	1943	489,6	0,97	3,31	0,83	587,8	7,51	15,46	EN12900 LBP
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	779,8	2663	671,1	0,97	3,30	0,83	807,9	8,92	27,61	ARI540 LBP
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	1156,3	3949	995,1	1,47	5,01	1,26	788,0	8,80	26,94	AHAM LBP
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	523,1	1787	450,2	0,91	3,10	0,78	577,0	7,47	13,98	opt
[°F]	-31	113	90	113										

Performance tables

R404A, 115V/60Hz, CSCR, 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	544,2	1859	468,4	0,92	3,15	0,80	589,1	7,54	14,55
cond. pressure	-34	-30	544,2	1859	468,4	0,92	3,15	0,80	589,1	7,54	14,55
pc= 45/113	-29	-20	753,6	2574	648,6	1,08	3,67	0,93	700,8	8,21	20,25
return gas temp.	-23	-10	973,0	3323	837,4	1,22	4,16	1,05	799,3	8,87	26,29
RGT= 32/90	-21	-5	1092,1	3730	939,9	1,29	4,41	1,11	845,3	9,20	29,61
liquid temp	-15	5	1360,3	4646	1170,7	1,46	4,97	1,25	934,3	9,85	37,16
Tliq= 45/113	-5	23	1994,5	6812	1716,5	1,81	6,19	1,56	1099,9	11,02	55,45
[°C / °F]	-34	-30	391,4	1337	336,8	0,69	2,37	0,60	563,6	7,43	12,11
cond. pressure	-34	-30	391,4	1337	336,8	0,69	2,37	0,60	563,6	7,43	12,11
pc= 55/131	-29	-20	599,8	2048	516,2	0,86	2,93	0,74	700,0	8,22	18,66
return gas temp	-23	-10	796,6	2721	685,6	0,97	3,32	0,84	819,0	8,99	24,95
RGT= 32/90	-21	-5	896,3	3061	771,4	1,03	3,50	0,88	873,7	9,38	28,18
liquid temp	-15	5	1109,6	3790	955,0	1,14	3,88	0,98	977,1	10,15	35,19
Tliq= 55/131	-5	23	1590,7	5432	1368,9	1,37	4,69	1,18	1158,5	11,51	51,49