

## Model

Designation	<b>SC12/12CL</b>	220-240V/50Hz 1~	Sales code:	<b>104L4088</b>
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## Compressor design

Oil type	Polyolester	Refrigerant(s)	<b>R404A, R507</b>
Oil viscosity	32cST	Displacement	25,74cm <sup>3</sup> / 1,57cu.in
Oil quantity	1233cm <sup>3</sup> / 41,7fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	2820cm <sup>3</sup> / 95,4fl.oz		
Weight	27,3kg / 60,2lbs		
Motor protection	1# internal		
Winding resistance main	5,13Ω (at 25°C)		
Winding resistance aux	13,51Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		



## General - Configurations with SC12/12CL

	<b>Conf. 1</b>
Motorconfiguration	CSIR
Power supply (nominal)	220-240V/50Hz
Number of phases	1
Voltage range	198-254V
Approvals	CCC, EAC, VDE
Starting torque	HST
Note	- / -

## Applications with SC12/12CL

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

## Electrical data - Configurations with SC12/12CL

	<b>Conf. 1</b>
Starting device type	relay
Run capacitor	- / -
Start capacitor	80μF
LRA (locked rotor amps / 4s)	2x 23,4A
RLA (rated load amps / 1s)	2x 4,3A
Cut in current	2x 23,4A



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## Configuration

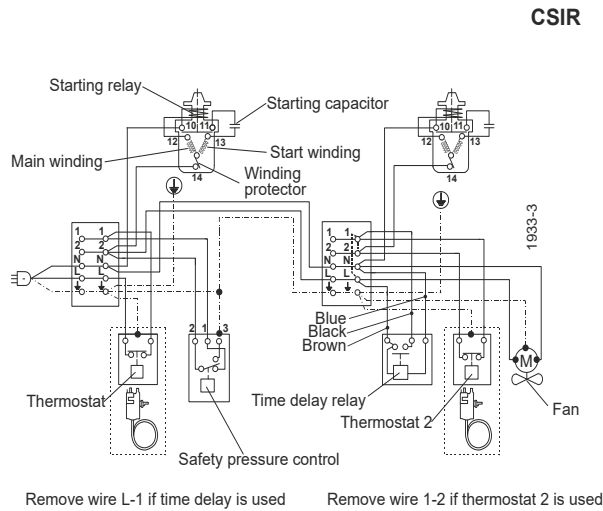
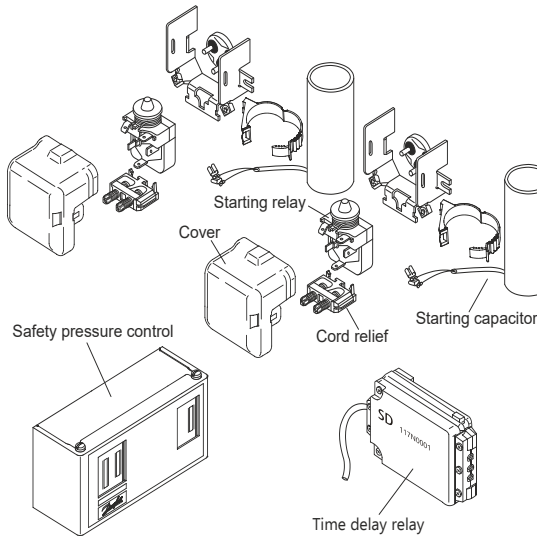
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Power supply (nominal)	220-240V/50Hz 1~
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## Ambient/ machine room temperatures minimum /maximum

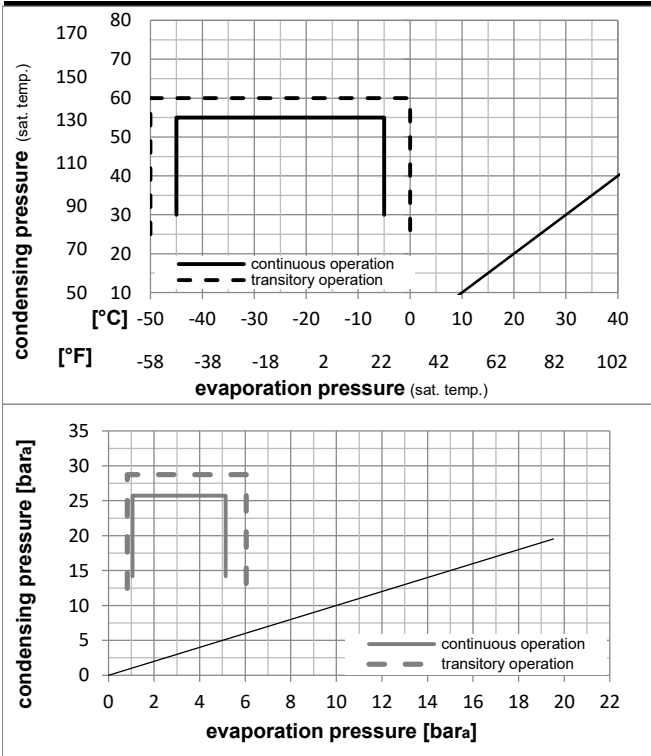
Ambient temperature range:	10 - 38°C / 50 - 101°F
Machine room temperature range:	10 - 43°C / 50 - 110°F
Compressor cooling:	fan 3m/s

## Operation Limits

## Electrical accessories / wiring diagram

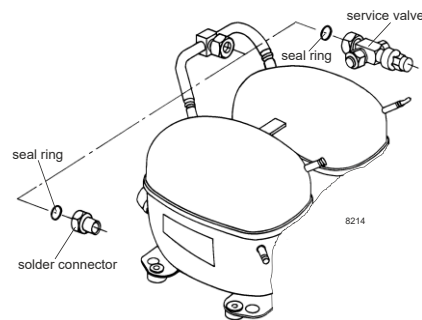


## Operation pressure range



## Components

a2	relay	117U6005
c	start capacitor (80µF)	117U5017
d	cord relief	103N1004
b	plastic cover	103N2009
.	Check valve (to be used with time-delay relay)	020-1014
.	Service valve 12mm	118-7350
.	Solder connector (alternative) 12 mm	104B0584
.	Seal ring for service valve and solder conn.	118-3638



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## Optimization + standard conditions

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

		Evaporating pressure (saturation temperature)				Condensing pressure (saturation temperature)			Return gas temp.		Liquid temp.		Cooling capacity			COP	EER	Power consumption		
		pe	pc	RGT	Tliq	[W]	[Btu/h]	[kcal/h]	[W/W]	[Btu/Wh]	[kcal/Wh]	P1	I	Ref. mass flow						
[°C]	[°F]	[°C]	[°F]	[°C]	[°C]							[W]	[A]	[kg/h]						
-23	-10	54	130	32	32	1028,8	3514	885,4	1,09	3,74	0,94	939,7	5,79	23,97	ASHRAE LBP					
-25	-13	55	131	32	55	667,8	2281	574,7	0,75	2,57	0,65	887,3	5,60	20,87	cecomaf LBP					
-35	-31	40	104	20	40	564,9	1929	486,1	0,87	2,99	0,75	645,8	4,86	15,35	EN12900 LBP					
-23	-10	49	120	4,4	49	825,1	2818	710,1	0,88	3,00	0,76	939,6	5,82	29,21	ARI540 LBP					
-23	-10	41	105	32	32	1339,4	4574	1152,7	1,45	4,94	1,25	925,1	5,73	31,21	AHAM LBP					
-35	-31	45	113	32	45	474,6	1621	408,4	0,75	2,56	0,65	632,9	4,85	12,69	opt					

## Performance tables

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

	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	115,4	394	99,3	0,30	1,04	0,26	379,2	4,30	3,07	
cond. pressure	-35	-31	474,6	1621	408,4	0,75	2,56	0,65	632,9	4,85	12,69	
pc= 45/113	-30	-22	706,4	2413	608,0	0,93	3,17	0,80	760,6	5,22	18,96	
return gas temp.	-25	-13	979,6	3346	843,1	1,10	3,76	0,95	890,6	5,64	26,43	
RGT= 32/90	-20	-4	1299,1	4437	1118,0	1,27	4,33	1,09	1024,3	6,13	35,24	
liquid temp	-15	5	1669,6	5702	1436,8	1,44	4,90	1,24	1162,8	6,67	45,61	
Tliq= 45/113	-5	23	2583,3	8822	2223,2	1,77	6,04	1,52	1460,2	7,94	71,82	
[°C / °F]	-45	-49	-78,5	-268	-67,5	-0,29	-0,97	-0,25	275,2	3,96	-2,41	
cond. pressure	-35	-31	234,6	801	201,9	0,40	1,38	0,35	581,0	4,66	7,26	
pc= 55/131	-30	-22	433,7	1481	373,3	0,59	2,02	0,51	733,4	5,10	13,48	
return gas temp	-25	-13	667,8	2281	574,7	0,75	2,57	0,65	887,3	5,60	20,87	
RGT= 32/90	-20	-4	941,5	3216	810,3	0,90	3,08	0,78	1043,9	6,16	29,62	
liquid temp	-15	5	1260,0	4303	1084,3	1,05	3,57	0,90	1204,6	6,77	39,96	
Tliq= 55/131	-5	23	2050,2	7002	1764,4	1,33	4,54	1,14	1543,6	8,19	66,36	