Single
Packs

Single Pack SC10/10CL 220-240V 50Hz CSIR

Single pack code number: **195B3362**

Position	Title	Code	Amount
1	Compressor SC10/10CL	104L4087	1
2	Starting relay	117U6003	2
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	2
4	Cord relief	103N1004	2
5	Cover	103N2009	2

Secop GmbH • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Technical Data Twin-Compressor

SECOP

Model

Designation	**SC10/10CL**	**220-240V/50Hz 1~**	Sales code:	**104L4087**

Compressor design

Oil type	Polyolester	Refrigerant(s)	**R404A, R507**
Oil viscosity	32cST	Displacement	20,58cm³ / 1,26cu.in
Oil quantity	1233cm³ / 41,7fl.oz	Compressors on pallet	18
Refr. charge - tech. limit	2200g / 77,6oz		
Free gas volume comp.	2820cm³ / 95,4fl.oz		
Weight	26,3kg / 58lbs		
Motor protection	1# internal		
Winding resistance main	6,9Ω (at 25°C)		
Winding resistance aux	11Ω (at 25°C)		
Max. winding temp.	125°C / 257°F		
Max. discharge temp.	135°C / 275°F		

General - Configurations with SC10/10CL

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

Applications with SC10/10CL

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

Electrical data - Configurations with SC10/10CL

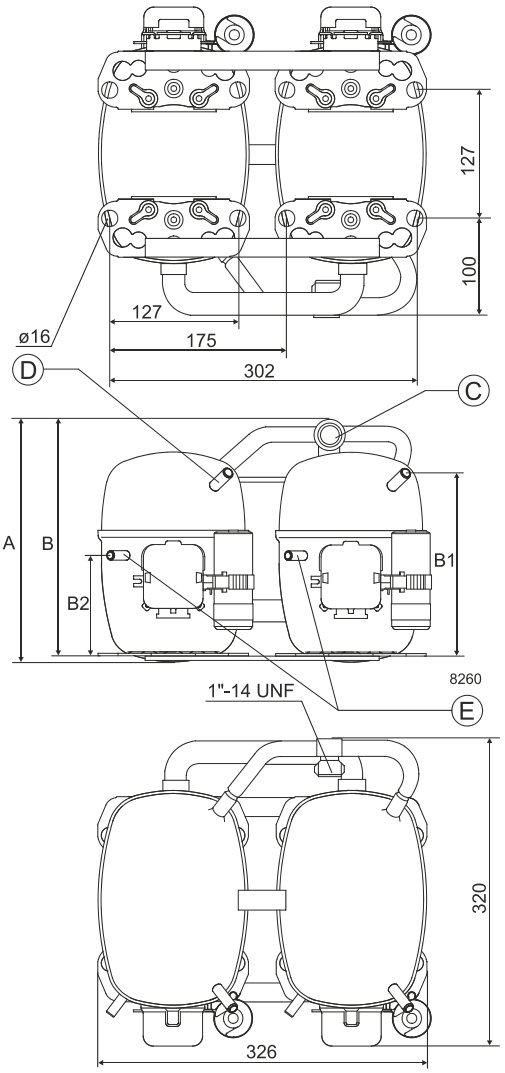
	Conf. 1
Starting device type	relay
Run capacitor	-/-
Start capacitor	80µF
LRA (locked rotor amps / 4s)	2x 23,4A
RLA (rated load amps / 1s)	2x 4,3A
Cut in current	2x 23,4A

Model

Designation **SC10/10CL** **220-240V/50Hz 1~** Sales code: **104L4087**

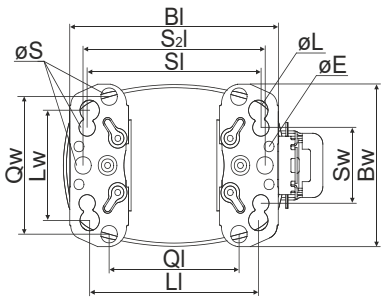
Compressor dimensions

Housing	A Height	249mm / 9,8in
	B Height	244mm / 9,61in
	B1	183mm / 7,2in
	B2	100mm / 3,94in



Connectors		**Suction** **C**	**Discharge** **E**	**Process** **D**
Diameter	[mm]	øi 15,21-15,37	øi 6,11-6,29	øi 6,11-6,29
(i:inside, o:outside)	[in]	øi 0,6-0,61	øi 0,24-0,25	øi 0,24-0,25
Material		steel	copper	copper
Horizontal angle	±2°	0°	37°	37°
Vertical angle	±2°	0°	0°	0°
Position l/h/w	[mm]	0/0/0	0/0/0	0/0/0
	[in]	0/0/0	0/0/0	0/0/0
Straight tube l.	[mm]	10	12	12
	[in]	0,4	0,5	0,5

Compressor fixation



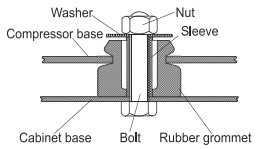
Baseplate	[mm]	[inch]
Bl	204	8.03
Bw	150	5.9
øE	ø 9.7	ø 0.38

Large holes	[mm]	[inch]
Ll	165	6.5
Lw	101.6	4
øL	ø 19	ø 0.75

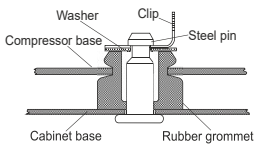
Small holes	[mm]	[inch]
Sl	170	6.7
Sw	70	2.76
øS	ø 16	ø 0.63
Ql	127	5
Qw	127	5

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

Bolt joint



Snap-on



Application notes

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

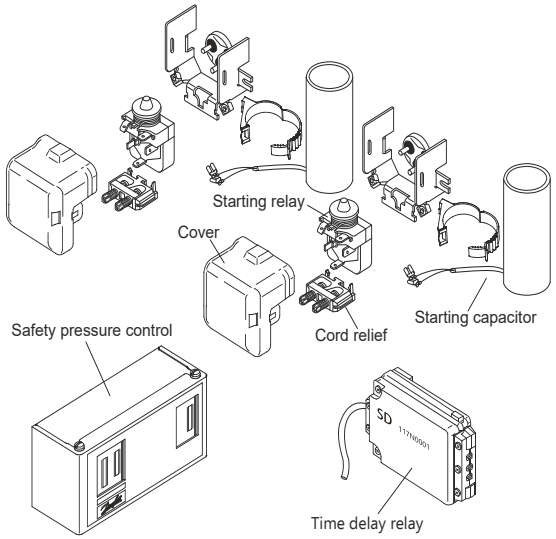
Twin should be used with a time-delay relay

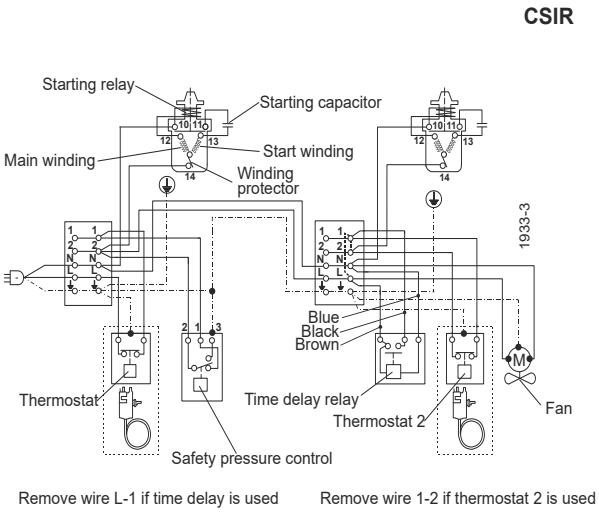
Model

Designation	**SC10/10CL**	**220-240V/50Hz**	**Conf. 1**	Sales code:	**104L4087**

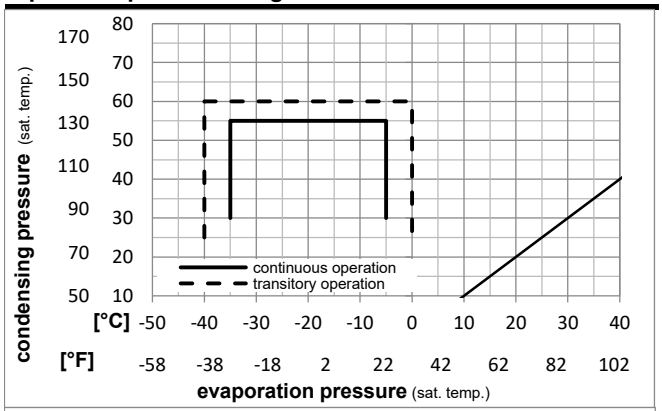
Configuration		**Ambient/ machine room temperatures minimum /maximum**	
Motorconfiguration	CSIR	Ambient temperature range:	10 - 38°C / 50 - 101°F
Power supply (nominal)	220-240V/50Hz 1~	Machine room temperature range:	10 - 43°C / 50 - 110°F
Refrigerant	R404A	**Compressor cooling:**	fan 3m/s
Application	LBP+MBP		
Voltage range	198-254V	**Operation Limits**	
Starting torque	HST		
Approvals	CCC, VDE,		

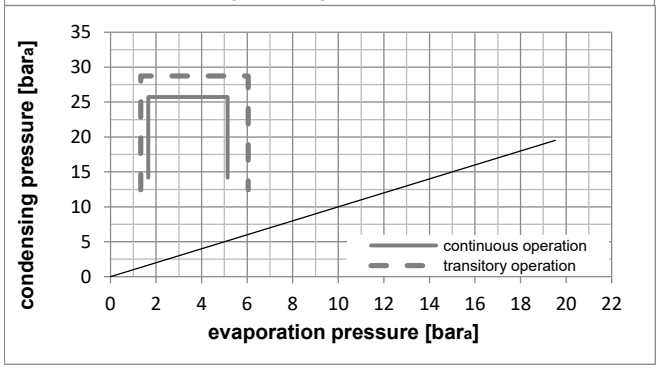
Electrical accessories / wiring diagram





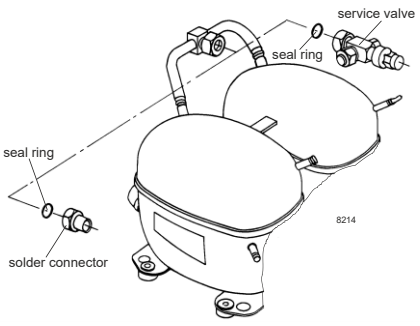
Operation pressure range





Components

a2	assy. relay	117U6003
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



Model

Designation **SC10/10CL** **220-240V/50Hz** **Conf. 1** Sales code: **104L4087**

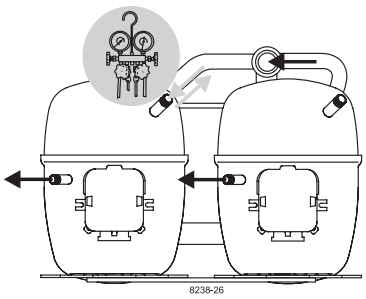
Optimization + standard conditions R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

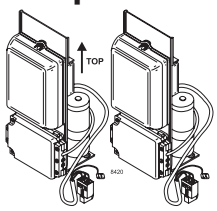
	Evaporating pressure (saturation temperature) pe	Condensing pressure (saturation temperature) pc	Return gas temp. RGT	Liquid temp. Tliq	Cooling capacity [W]	[Btu/h]	[kcal/h]	COP [W/W]	EER [Btu/Wh]	[kcal/Wh]	Power consumption P1 [W]	Current consumption I [A]	Ref. mass flow ṁ [kg/h]	
[°C]	-23	54	32	32	800,5	2734	688,9	1,13	3,85	0,97	710,5	4,55	18,65	**ASHRAE LBP**
[°F]	-10	130	90	90										
[°C]	-25	55	32	55	522,9	1786	450,0	0,79	2,69	0,68	665,0	4,41	16,34	**cecomaf LBP**
[°F]	-13	131	90	131										
[°C]	-35	40	20	40	393,4	1343	338,5	0,79	2,69	0,68	499,3	3,86	10,69	**EN12900 LBP**
[°F]	-31	104	68	104										
[°C]	-23	49	4,4	49	624,2	2132	537,2	0,85	2,91	0,73	731,8	4,56	22,10	**ARI540 LBP**
[°F]	-10	120	40	120										
[°C]	-23	41	32	32	995,9	3401	857,1	1,34	4,58	1,15	742,2	4,52	23,21	**AHAM LBP**
[°F]	-10	105	90	90										
[°C]	-35	45	32	45	336,1	1148	289,3	0,69	2,36	0,60	485,7	3,82	8,99	**opt**
[°F]	-31	113	90	113										

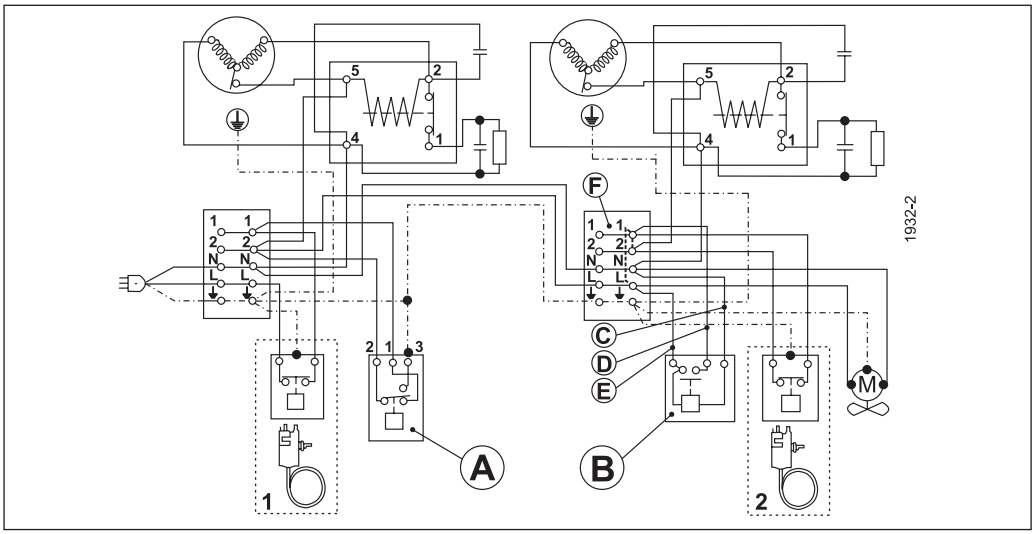
Performance tables R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE

	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]	-35	-31	336,1	1148	289,3	0,69	2,36	0,60	485,7	3,82	8,99
cond. pressure	-30	-22	516,9	1765	444,9	0,88	3,01	0,76	587,3	4,11	13,88
pc= 45/113	-25	-13	729,9	2493	628,2	1,04	3,56	0,90	700,6	4,43	19,69
return gas temp.	-23	-10	810,4	2768	697,4	1,09	3,74	0,94	740,9	4,55	21,90
RGT= 32/90	-20	-4	979,0	3343	842,5	1,19	4,07	1,03	820,5	4,79	26,56
liquid temp	-15	5	1268,0	4330	1091,2	1,35	4,60	1,16	941,9	5,18	34,64
Tliq= 45/113	-5	23	1981,1	6766	1704,9	1,70	5,79	1,46	1168,4	6,08	55,07
[°C / °F]	-35	-31	190,7	651	164,1	0,42	1,45	0,36	449,9	3,68	5,90
cond. pressure	-30	-22	343,4	1173	295,6	0,63	2,14	0,54	547,4	4,03	10,67
pc= 55/131	-25	-13	522,9	1786	450,0	0,79	2,69	0,68	665,0	4,41	16,34
return gas temp	-23	-10	590,7	2017	508,3	0,83	2,85	0,72	708,7	4,55	18,50
RGT= 32/90	-20	-4	732,9	2503	630,7	0,92	3,14	0,79	797,6	4,83	23,06
liquid temp	-15	5	977,2	3337	841,0	1,04	3,55	0,89	940,2	5,29	30,99
Tliq= 55/131	-5	23	1584,2	5410	1363,4	1,28	4,38	1,10	1234,5	6,31	51,28

SC Twin Compressors

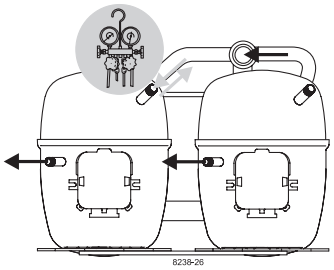


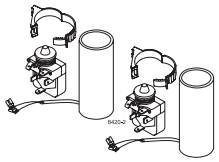


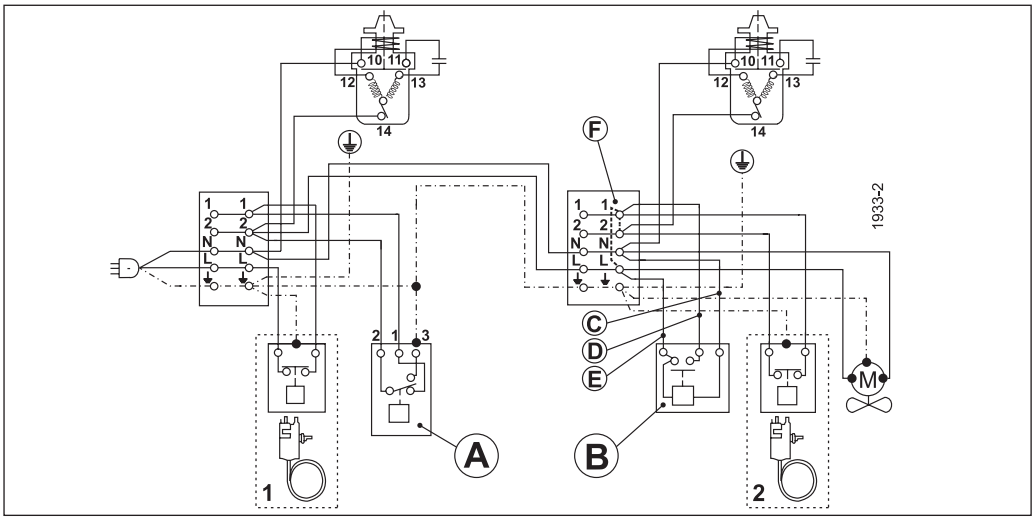


	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用	若温控器2使用，线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaßverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé	Supprimer la connection 1-2 si thermostat 2 est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviam.	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
NEDERLANDS	Pressostaat	Tijdvertragings relais	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast	Verwijder draad 1-2 indien thermostaat wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2

SC Twin Compressors







	A	B	C	D	E	F	
ENGLISH	Safety pressure control	Time delay relay	Blue	Black	Brown	Remove wire L-1 if time delay is used	Remove wire 1-2 if thermostat 2 is used
中文	安全压力控制	延时继电器	蓝	黑	棕	若延时继电器使用，线L-1不使用	若温控器2使用，线1-2不使用
Русский	Предохранительное реле давления	Реле задержки времени	Синий	Чёрный	Коричневый	Отсоедините провод L-1, если используется реле задержки времени	Отсоедините провод 1-2, если используется термостат 2
DEUTSCH	Sicherheitsdruckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaßverzögerung Brücke L-1 entfernen	Bei Benutzung von Thermostat 2 Brücke 1-2 entfernen
FRANÇAIS	Pressostat	Relais de temporisation	Bleu	Noir	Marron	Supprimer la connection L-1 si le relais de temporisation est utilisé	Supprimer la connection 1-2 si thermostat 2 est utilisé
ESPAÑOL	Presostato de seguridad	Relé de retardo	Azul	Negro	Marrón	Quitar cable L-1, si se utiliza un relé de retardo	Quitar cable 1-2, si se utiliza el termostato 2
ITALIANO	Pressostato	Relè di ritardo avviam.	Blu	Nero	Marrone	Eliminare il cavo L-1 se è utilizzato il ritardatore	Eliminare il cavo 1-2 se è utilizzato il termostato 2
NEDERLANDS	Pressostaat	Tijdvertragings relais	Blauw	Zwart	Bruin	Verwijder draad L-1 indien tijdvertraging wordt toegepast	Verwijder draad 1-2 indien thermostaat wordt toegepast
DANSK	Sikkerhedspressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2