Single
Packs

Single Pack SC21/21CL 220-240V 50Hz CSCR

Single pack code number: **195B3009**

Position	Title	Code	Amount
1	Compressor SC21/21CL	104L4094	1
2	SC starting device (550mm)	117-7027	2
3	Cover	103N2009	2
4	Cord relief	103N1004	2
5	Bolt joint for one compressor | M6 | ø16mm	118-1917	2

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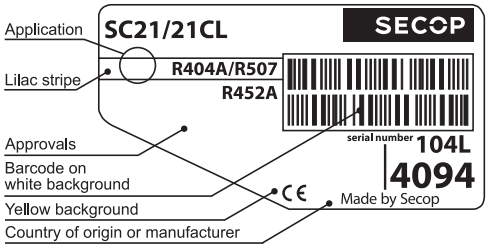
SC21/21CL
LBP Twin Compressor
R404A/R507/R452A
220-240V 50Hz



General

Code number	104L4094
Approvals	EN 60335-2-34
Compressors on pallet	18

Application

Application		LBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-45 to -10	–
Voltage range	V	198 - 254	–
Max. condensing temperature continuous (short)	°C	55 (60)	–
Max. winding temperature continuous (short)	°C	125 (135)	–

Cooling requirements

Frequency	Hz	50			60		
Application		LBP	MBP	HBP	LBP	MBP	HBP
32°C		F_2	–	–	–	–	–
38°C		F_2	–	–	–	–	–
43°C		–	–	–	–	–	–
Remarks on application:							

S = Static cooling normally sufficient
O = Oil cooling
F_1 = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
F_2 = Fan cooling 3.0 m/s necessary
SG = Suction gas cooling normally sufficent
– = not applicable in this area

Motor

Motor type		CSR	
LRA (rated after 4 sec. UL984) *, HST | LST	A	2 x 23.4	–
Cut in Current *, HST | LST	A	2 x 23.4	–
Resistance, main | start winding (25°C)	Ω	3.4	14.4

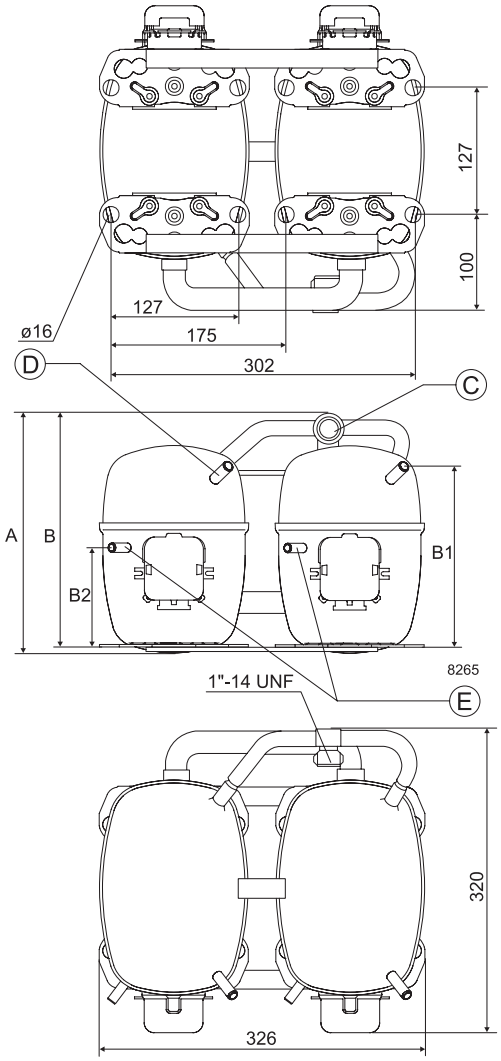
* Operational current for the second compressor time-delayed.

Design

Displacement	cm^3	2 x 20.95
Oil quantity (type)	cm^3	1220 (polyester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm^3	2920
Weight without electrical equipment	kg	29.1

Dimensions

Height	mm	A	259
		B	254
		B1	193
		B2	110
Suction connector (service valve)	location/I.D. mm	C	16 | 37°
Suction connector (solder connector)	location/I.D. mm	C	16 | 37°
Process connector	location/I.D. mm | angle	D	6.2 | 37°
	material | comment		Copper | Rubber plug
Discharge connector	location/I.D. mm | angle	E	6.2 | 37°
	material | comment		Copper | Rubber plug
Oil cooler connector	location/I.D. mm | angle	F	–
	material | comment		–
Connector tolerance	I.D. mm		±0.09
Remarks:			

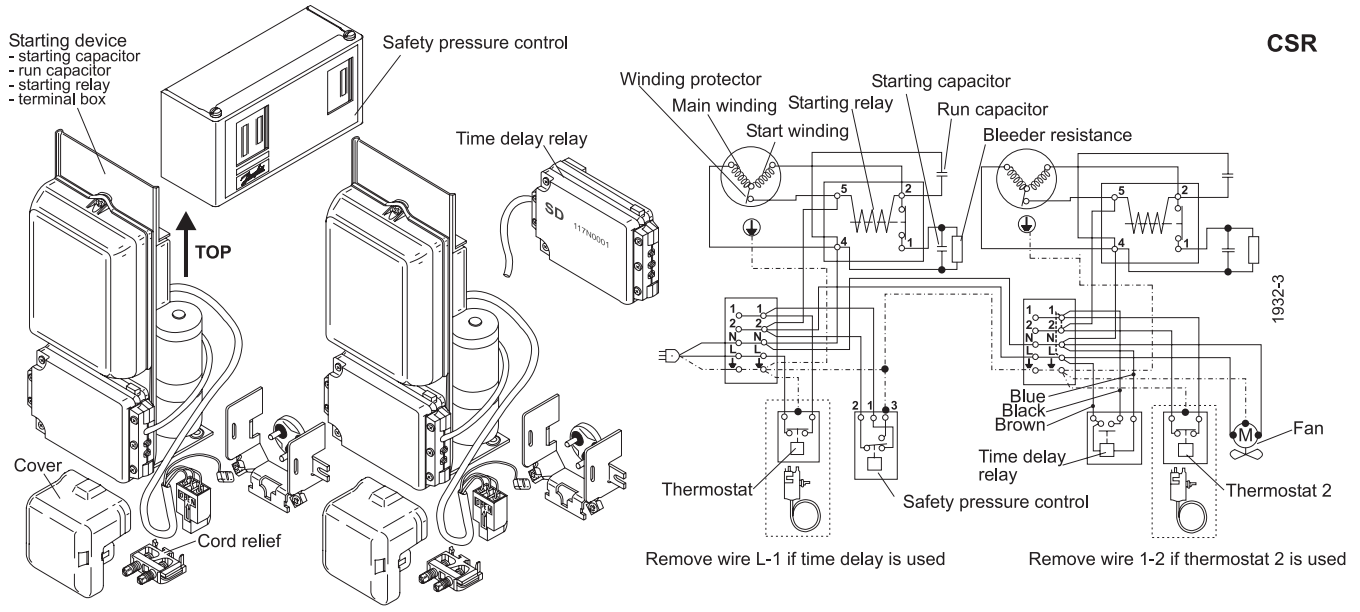


EN 12900 Household (CECOMAF)* R404A, 220V, 50Hz, fan cooling F_2

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W	452	650	910	1235	1626	1774	2084	2613	3213								
Power cons. in W	799	924	1068	1230	1404	1466	1589	1782	1978								
Current cons. in A	4.80	5.27	5.88	6.61	7.42	7.71	8.28	9.15	9.99								
COP in W/W	0.57	0.70	0.85	1.00	1.16	1.21	1.31	1.47	1.62								

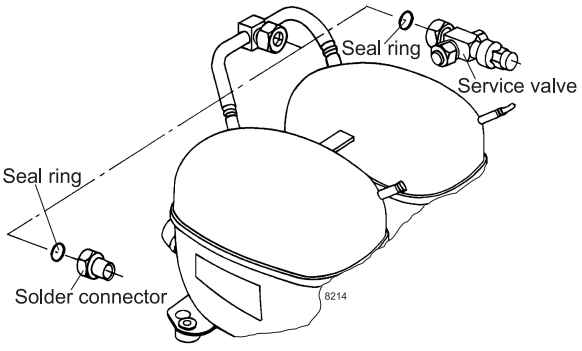
ASHRAE LBP* R404A, 220V, 50Hz, fan cooling F_2

Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W	525	755	1059	1437	1893	2068	2430	3049	3753								
Power cons. in W	799	924	1068	1230	1404	1466	1589	1782	1978								
Current cons. in A	4.80	5.27	5.88	6.61	7.42	7.71	8.28	9.15	9.99								
COP in W/W	0.66	0.82	0.99	1.17	1.35	1.41	1.53	1.71	1.90								



Accessories	SC21/21CL	pcs.	Code number
Starting device	550 mm cable length	2	117-7027
Starting relay	6.3 mm spade connectors	2	–
Start. capacitor 80 µF	6.3 mm spade connectors	2	–
Cover		2	103N2009
Cord relief		2	103N1004
Time-delay relay		1	117N0001
Check valve (to be used with time-delay relay)		2	020-1014
Service valve	12 mm	1	–
Solder connector (alternative)	12 mm	1	–
Service valve	16 mm	1	118-7351
Solder connector (alternative)	16 mm	1	118-7405
Seal ring for service valve and solder connector		1	118-3638
Half Twin compressor (additional cascade compressor or replacement)		1	104L2326

Test conditions	EN 12900/ CECOMAF*	ASHRAE LBP*
Condensing temperature	45°C	45°C
Ambient temperature	32°C	32°C
Suction gas temperature	32°C	32°C
Liquid temperature	no subcooling	32°C



Mounting accessories		pcs.	Code number
Bolt joint for one compressor	Ø: 16 mm	2	118-1917
Bolt joint in quantities	Ø: 16 mm	2	118-1918

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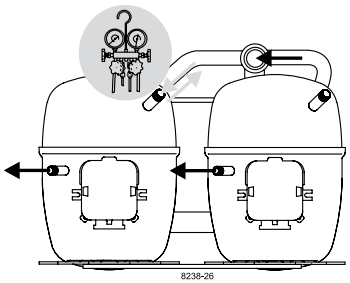
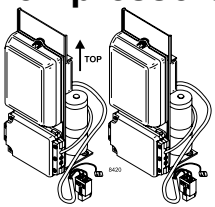


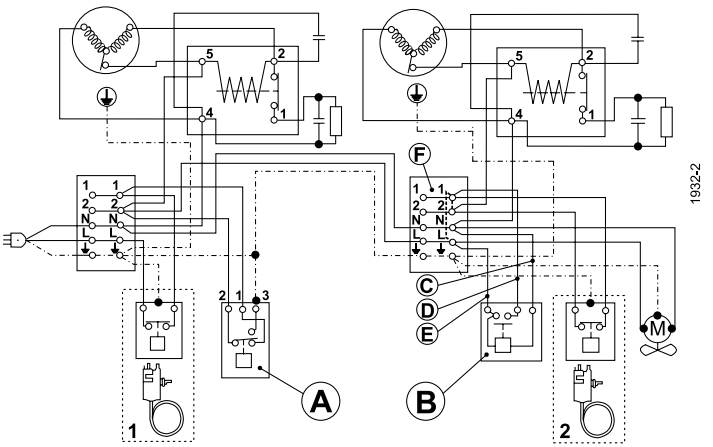
SC Twin Compressors



SECOP

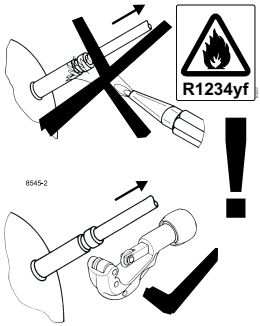
Keep electrical equipment clear from oil, chemicals, and water

CSCR



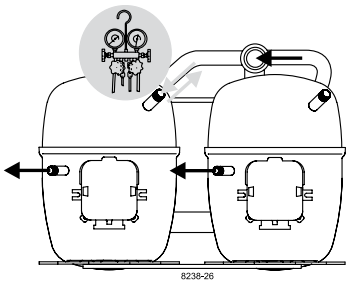
Service/Repair – R1234yf

(applies to all flammable refrigerants)

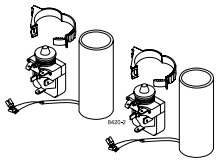


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

	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	Sicherheits-druckschalter	Zeitrelais (verzögernd)	Blau	Schwarz	Braun	Bei Benutzung der Anlaß-verzögerung 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	Sikkerheds-pressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhets-pressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas bygling L-1	Vid anslutning av termostat 2 avlägsnas bygling 1-2



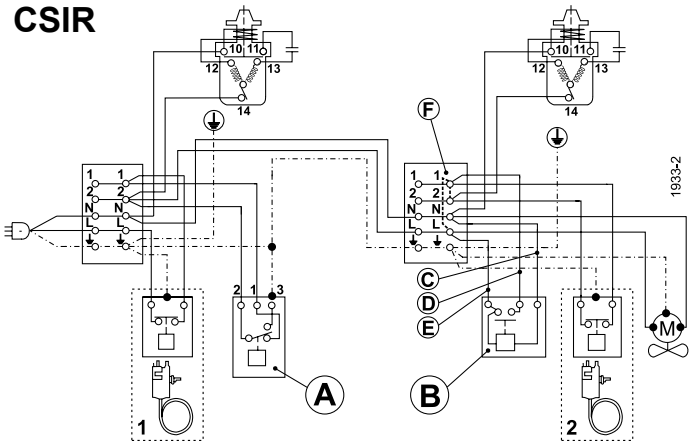
SC Twin Compressors



SECOP

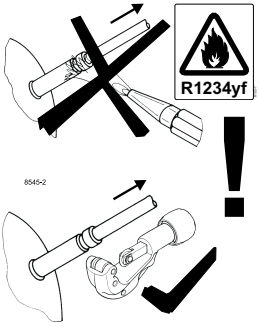
Keep electrical equipment clear from oil, chemicals, and water

CSIR



Service/Repair – R1234yf

(applies to all flammable refrigerants)



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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

Dismantling, recycling, disposal: At the end of a compressor's lifecycle, proceed by separating and storing components according to their environmental impact. Parts that may cause pollution must be clearly identified and handled separately, ensuring appropriate disposal. Refrigerant gas must not be released into the environment and should be recovered by qualified operators. Compressor oil must also be collected separately. The compressor should be disposed of at specialized disposal centers in accordance with the applicable regulations. **Subject to modifications/alterations. www.secop.com**