Single
Packs

Single Pack SC15/15DL 220-240V 50Hz CSCR

Single pack code number: **195B3087**

Position	Title	Code	Amount
1	Compressor SC15/15DL	104L4093	1
2	SC starting device (550mm)	117-7029	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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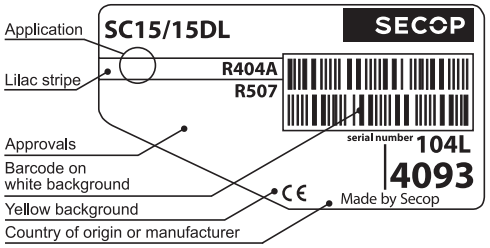
SC15/15DL
MBP/HBP Twin Compressor
R404A/R507 & R407C
220-240V 50Hz



General

Code number	104L4093
Approvals	EN 60335-2-34
Compressors on pallet	18

Application

Application		MBP/HBP	
Frequency	Hz	50	60
Evaporating temperature	°C	-20 to 15	–
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	F_2	–	–	–
38°C		–	F_2	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 21.8	–
Cut in Current *, HST | LST	A	2 x 21.8	–
Resistance, main | start winding (25°C)	Ω	3.5	12.1

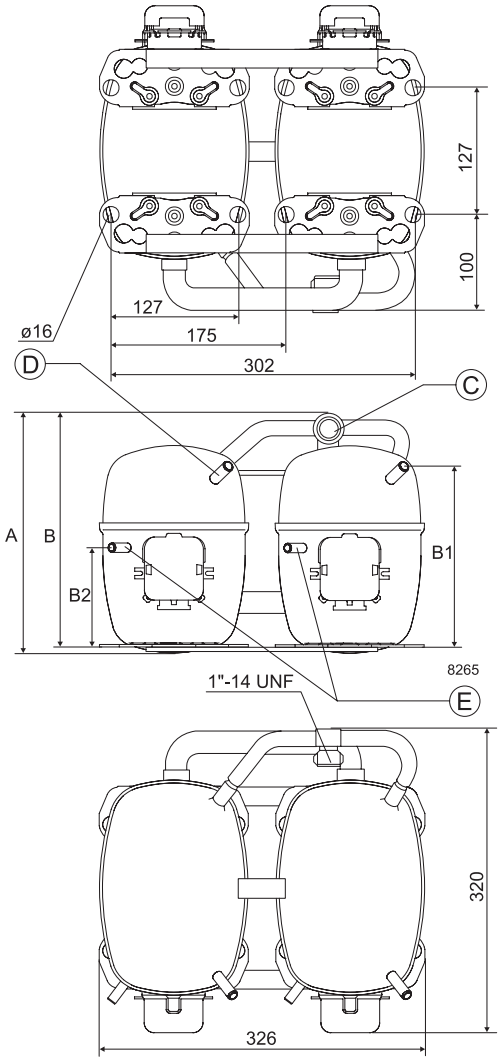
* Operational current for the second compressor time-delayed.

Design

Displacement	cm^3	2 x 15.28
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	28.0

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/R507**, 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							1518	1928	2414	2781	2985	3651	4420	4795	5304	6311	
Power cons. in W							1178	1319	1445	1520	1556	1651	1730	1760	1793	1837	
Current cons. in A							6.19	6.93	7.58	7.96	8.14	8.61	9.00	9.14	9.29	9.50	
COP in W/W							1.29	1.46	1.67	1.83	1.92	2.21	2.55	2.72	2.96	3.43	

ASHRAE LBP **R404A/R507**, 220V, 50Hz, fan cooling F_2

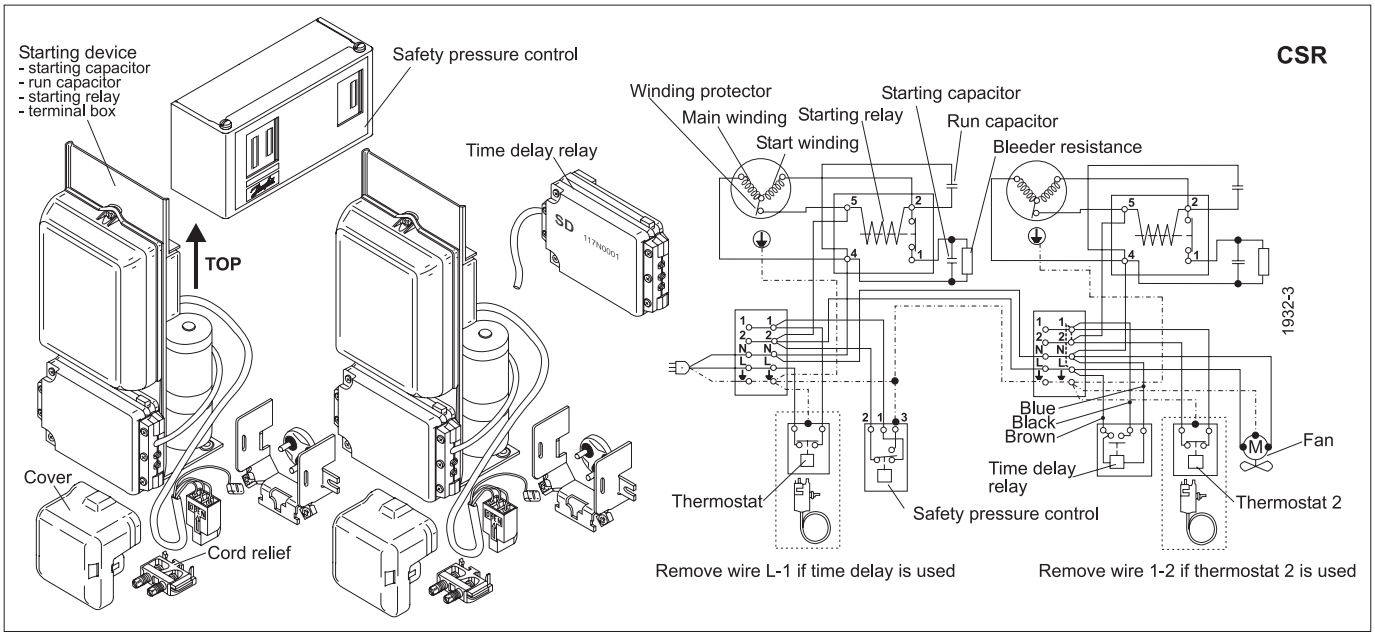
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W							1763	2242	2810	3225	3479	4262	5170	5613	6218	7419	
Power cons. in W							1178	1319	1445	1520	1556	1651	1730	1760	1793	1837	
Current cons. in A							6.19	6.93	7.58	7.96	8.14	8.61	9.00	9.14	9.29	9.50	
COP in W/W							1.50	1.70	1.94	2.12	2.24	2.58	2.99	3.19	3.47	4.04	

EN 12900 Household (CECOMAF) **R407C**, 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								1554	2022	2375	2586	3257	4047	4434	4966	6027	
Power cons. in W								1069	1180	1243	1281	1372	1452	1484	1521	1579	
Current cons. in A								5.68	6.17	6.44	6.60	6.99	7.34	7.47	7.63	7.88	
COP in W/W								1.45	1.71	1.90	2.02	2.37	2.79	2.99	3.26	3.82	

ASHRAE LBP **R407C**, 220V, 50Hz, fan cooling F_2

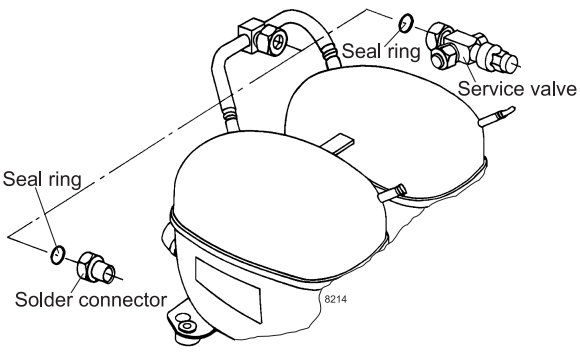
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								1665	2168	2547	2774	3495	4345	4763	5336	6482	
Power cons. in W								1069	1180	1243	1281	1372	1452	1484	1521	1579	
Current cons. in A								5.68	6.17	6.44	6.60	6.99	7.34	7.47	7.63	7.88	
COP in W/W								1.56	1.84	2.05	2.17	2.55	2.99	3.21	3.51	4.10	



Accessories SC15/15DL		pcs.	Code number
Starting device			
	550 mm cable length	2	117-7029
	650 mm cable length		117-7032
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	104L2862

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

Test conditions	EN 12900/ CECOMAF*	ASHRAE MBP/HBP*
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



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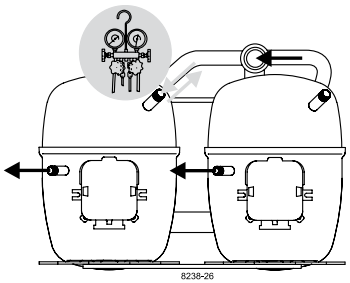
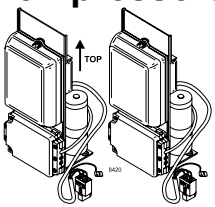


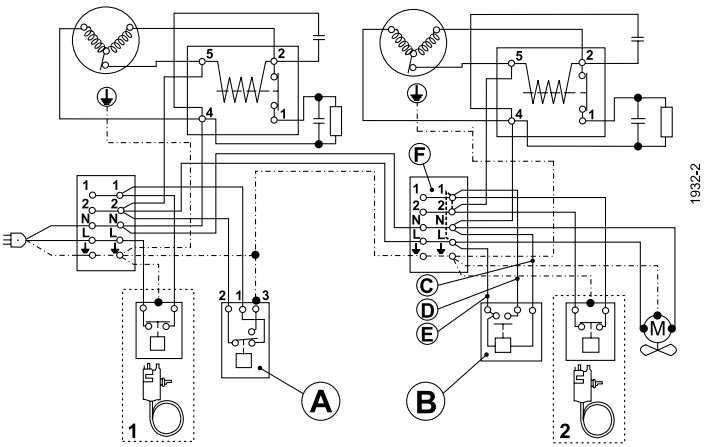
SC Twin Compressors



SECOP

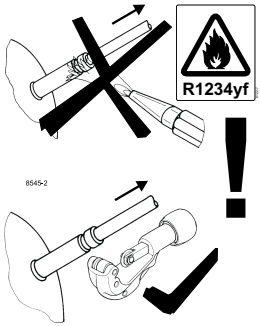
Keep electrical equipment clear from oil, chemicals, and water

CSCR



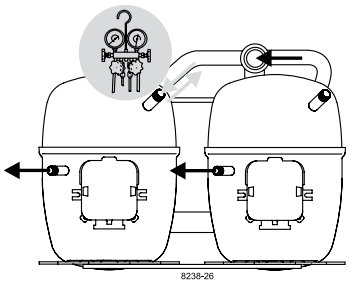
Service/Repair – R1234yf

(applies to all flammable refrigerants)

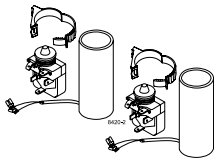


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

	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



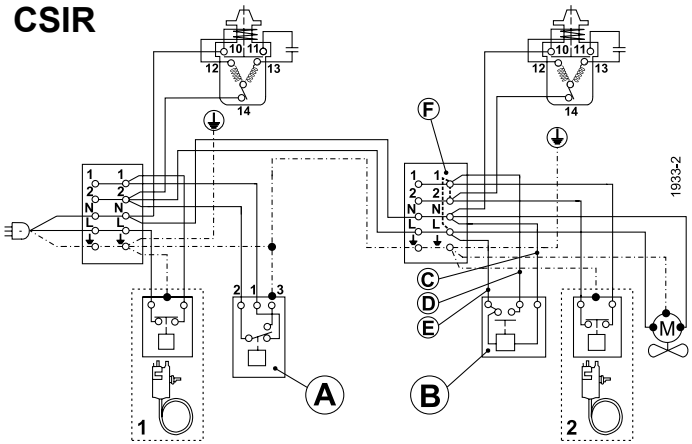
SC Twin Compressors



SECOP

Keep electrical equipment clear from oil, chemicals, and water

CSIR



Service/Repair – R1234yf

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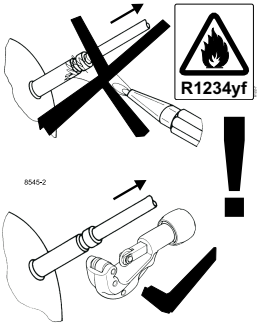

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DANSK	Sikkerhedspressostat	Tidsforsinkelsesrelæ	Blå	Sort	Brun	Ved tidsforsinkelse fjernes ledning L-1	Ved termostat 2 fjernes ledning 1-2
SVENSKA	Säkerhetspressostat	Tidsfördröjningsrelä	Blå	Svart	Brun	Vid anslutning av tidfördröjningsrelä avlägsnas 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**