Single
Packs

Single Pack SC12/12DL 220-240V 50Hz CSIR

Single pack code number: **195B3086**

Position	Title	Code	Amount
1	Compressor SC12/12DL	104L4092	1
2	Starting relay	117U6019	2
3	Starting capacitor (80µF 220V, 6.3mm)	117U5017	2
4	Cover	103N2009	2
5	Cord relief	103N1004	2
6	Bolt joint for one compressor | M6 | ø16mm	118-1917	2

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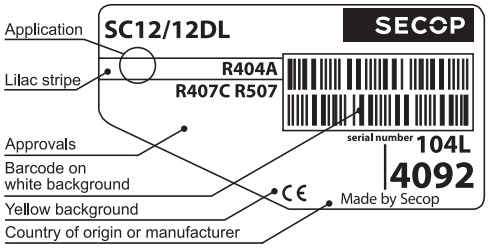
SC12/12DL
MBP/HBP Twin Compressor
R404A/R507 & R407C
220-240V 50Hz



General

Code number	104L4092
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		CSIR	
LRA (rated after 4 sec. UL984) *, HST | LST	A	2 x 18.6	–
Cut in Current *, HST | LST	A	2 x 18.6	–
Resistance, main | start winding (25°C)	Ω	3.7	14.1

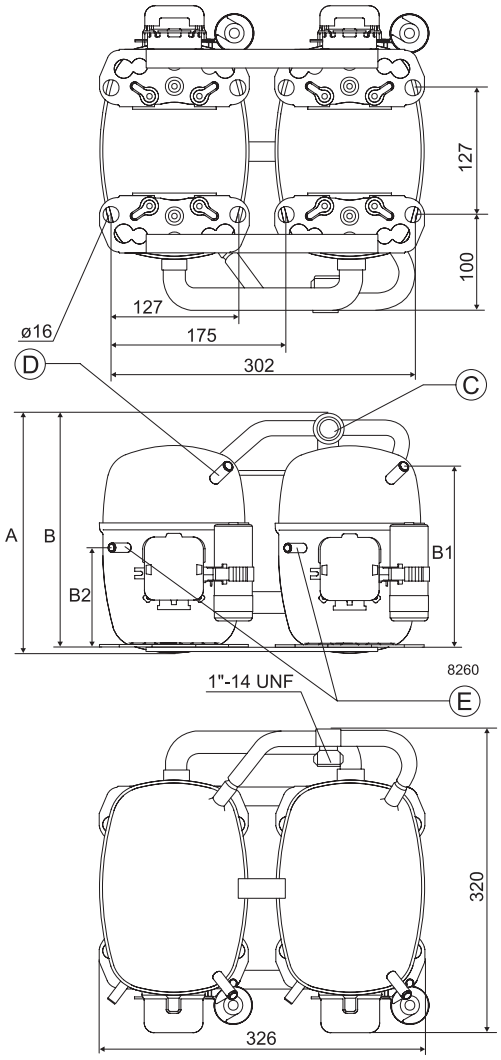
* Operational current for the second compressor time-delayed.

Design

Displacement	cm^3	2 x 12.87
Oil quantity (type)	cm^3	1220 (polyolester)
Maximum refrigerant charge	g	2200
Free gas volume in compressor	cm^3	2920
Weight without electrical equipment	kg	27.8

Dimensions

Height	mm	A	249
		B	244
		B1	183
		B2	100
Suction connector (service valve)	location/I.D. mm	C	12 | 37°
Suction connector (solder connector)	location/I.D. mm	C	12 | 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							1217	1612	2055	2380	2559	3130	3780	4092	4516	5348	
Power cons. in W							978	1125	1248	1317	1349	1433	1500	1526	1555	160	
Current cons. in A							6.74	7.29	7.78	8.07	8.21	8.58	8.88	9.00	9.13	9.31	
COP in W/W							1.24	1.43	1.65	1.81	1.90	2.18	2.52	2.68	2.90	3.34	

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							1414	1874	2393	2761	2982	3654	4421	4791	5294	6287	
Power cons. in W							978	1125	1248	1317	1349	1433	1500	1526	1555	160	
Current cons. in A							6.74	7.29	7.78	8.07	8.21	8.58	8.88	9.00	9.13	9.31	
COP in W/W							1.45	1.67	1.92	2.10	2.21	2.55	2.95	3.14	3.40	3.93	

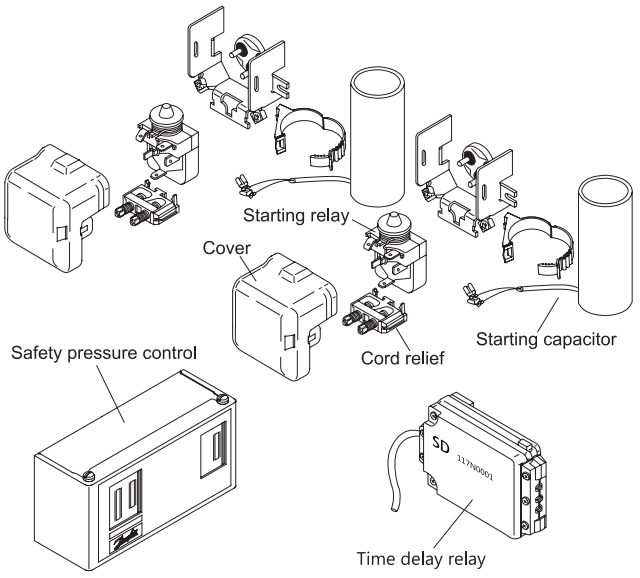
EN 12900 Household (CECOMAF) **R407C**, 220V, 50Hz, fan cooling F_2

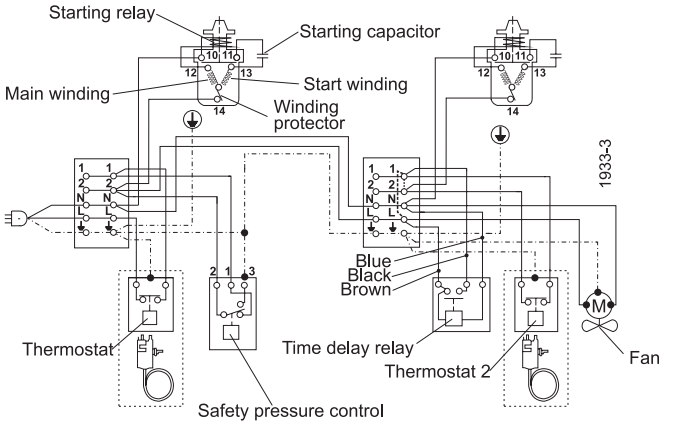
Evap. temp. in °C	-45	-40	-35	-30	-25	-23.3	-20	-15	-10	-6.7	-5	0	5	7.2	10	15	20
Capacity in W								1263	1662	1955	2130	2680	3321	3634	4062	4913	
Power cons. in W								912	1025	1087	1124	1212	1287	1316	1350	1400	
Current cons. in A								6.23	6.62	6.85	6.98	7.30	7.58	7.69	7.82	8.03	
COP in W/W								1.39	1.62	1.79	1.89	2.21	2.58	2.76	3.01	3.51	

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								1354	1781	2096	2285	2876	3566	3903	4364	5284	
Power cons. in W								912	1025	1087	1124	1212	1287	1316	1350	1400	
Current cons. in A								6.23	6.62	6.85	6.98	7.30	7.58	7.69	7.82	8.03	
COP in W/W								1.48	1.74	1.92	2.03	2.37	2.77	2.97	3.23	3.77	

CSIR

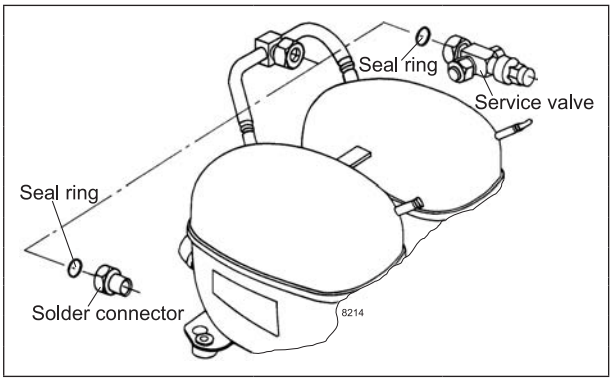




Accessories	**SC12/12DL**	**pcs.**	**Code number**
Starting device	470 mm cable length	2	–
	550 mm cable length		–
	650 mm cable length		–
Starting relay	6.3 mm spade connectors	2	117U6019
Start. capacitor 80 µF	6.3 mm spade connectors	2	117U5017
Cover		2	103N2009
Cord relief		2	103N1004
Time-delay relay		1	117N0001
Check valve (to be used with time-delay relay)		2	020-1014
Service valve	12 mm	1	118-7350
Solder connector (alternative)	12 mm	1	104B0584
Service valve	16 mm	1	–
Solder connector (alternative)	16 mm	1	–
Seal ring for service valve and solder connector		1	118-3638

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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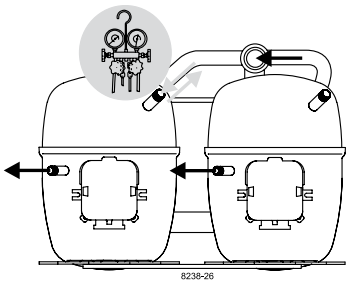
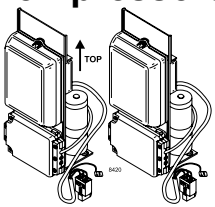


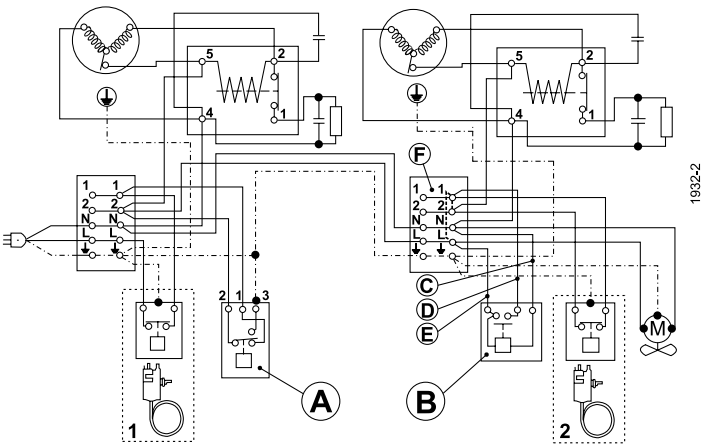
SC Twin Compressors



SECOP

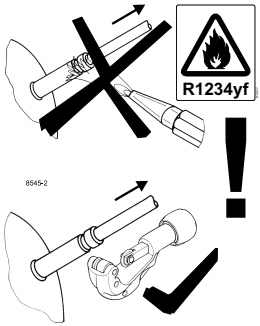
Keep electrical equipment clear from oil, chemicals, and water

CSCR



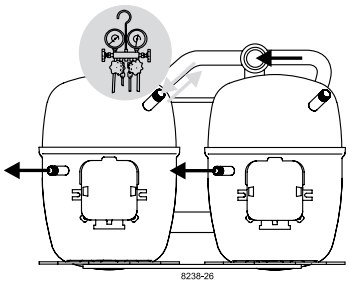
Service/Repair – R1234yf

(applies to all flammable refrigerants)

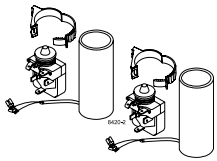


When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

	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



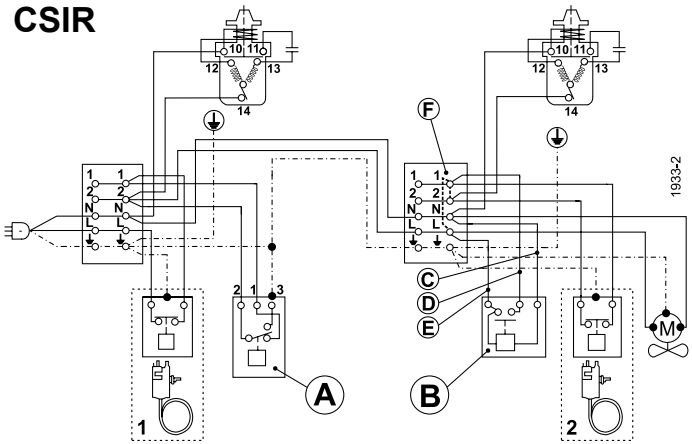
SC Twin Compressors



SECOP

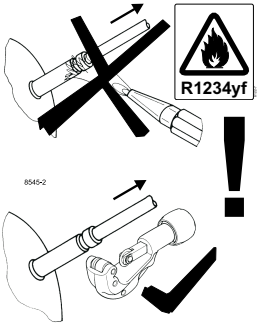
Keep electrical equipment clear from oil, chemicals, and water

CSIR



Service/Repair – R1234yf

(applies to all flammable refrigerants)



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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

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**