Singolo
Imballi

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

Codice Imballo Singolo: **195B3301**

| Posizione | Titolo | Codice | Quantità |
|---|---|---|---|
| 1 | Compressor SC21/21CL | 104L4094 | 1 |
| 2 | SC starting device (550mm) | 117-7027 | 2 |
| 3 | Cord relief | 103N1004 | 2 |
| 4 | Cover | 103N2009 | 2 |
| 5 | Bolt joint for one compressor \| M6 \| ø16mm | 118-1917 | 2 |
| 6 | Seal ring for service valve and solder connector | 118-3638 | 1 |
| 7 | Service valve 16mm | 118-7351 | 1 |

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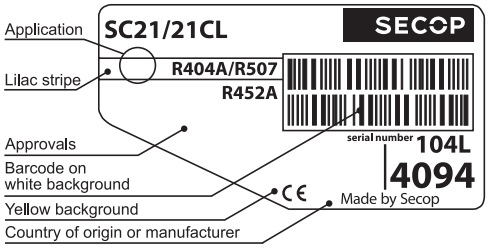
# SC21/21CL
# LBP Twin Compressor
# R404A/R507/R452A
# 220-240V 50Hz




**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 |

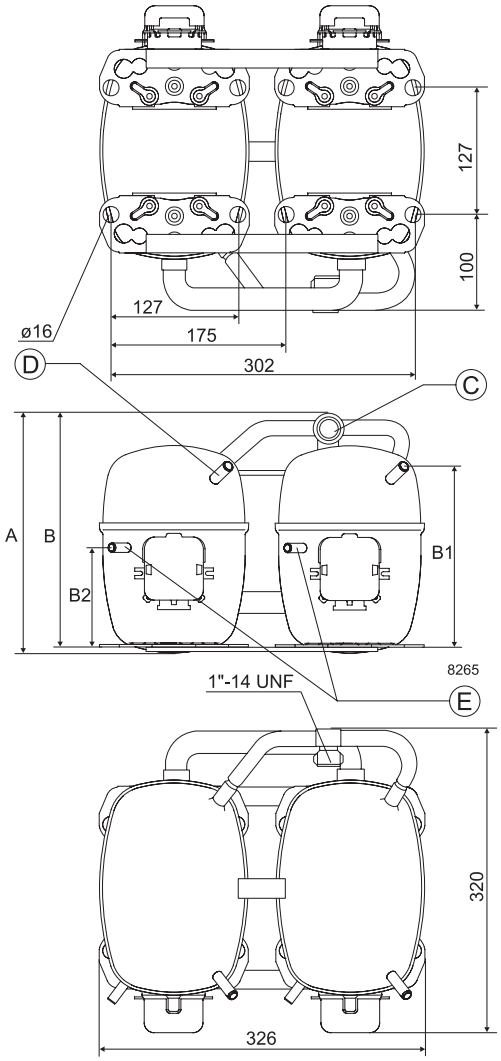
* Operational current for the second compressor time-delayed.

**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: | | | |

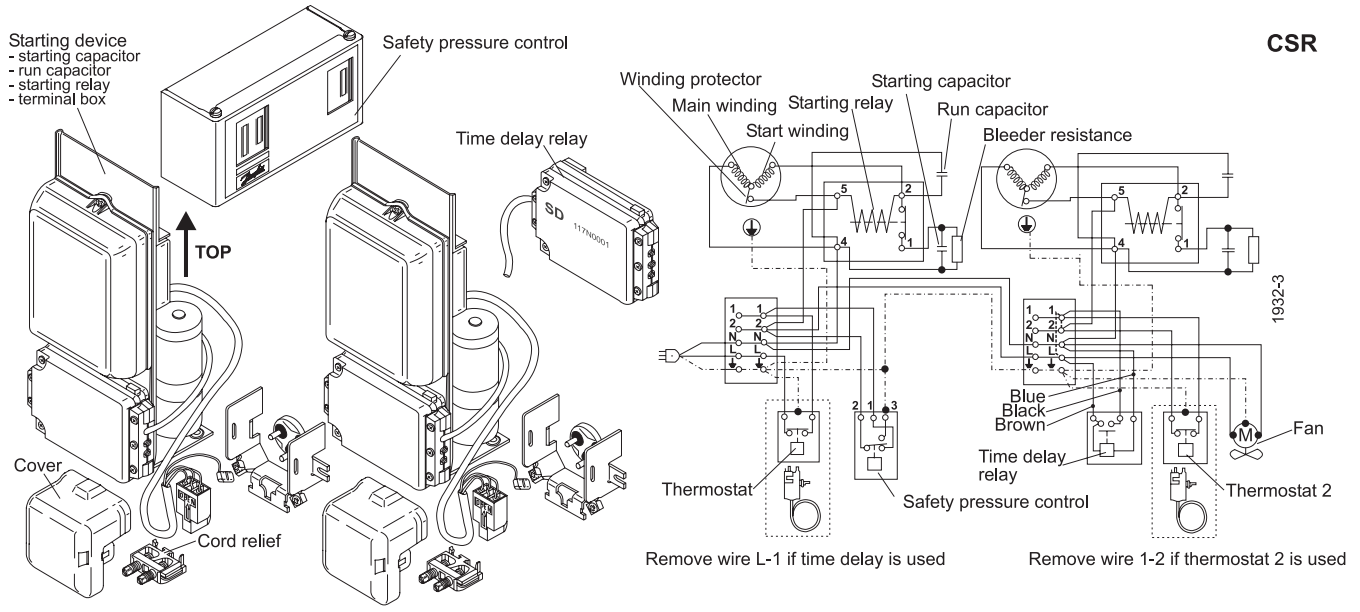


**EN 12900 Household (CECOMAF)*** R404A, 220V, 50Hz, fan cooling $F_2$

| 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 | | | | | | | | |

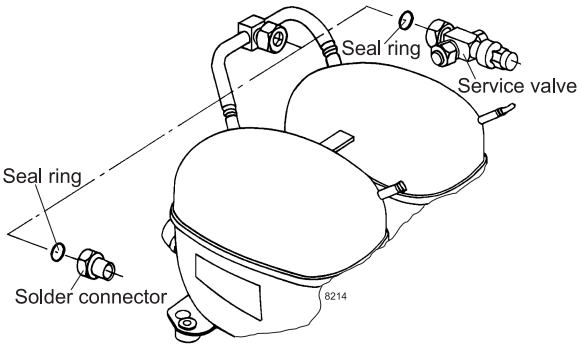
**ASHRAE LBP*** R404A, 220V, 50Hz, fan cooling $F_2$

| 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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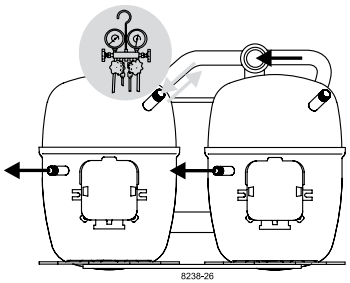
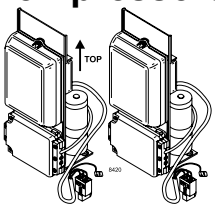


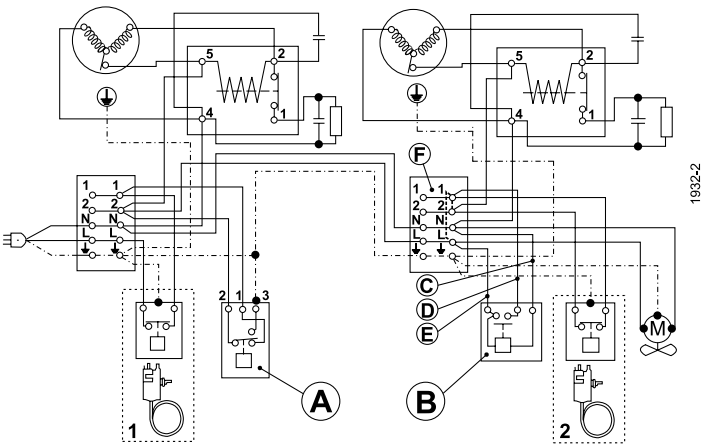

# SC Twin Compressors




SECOP

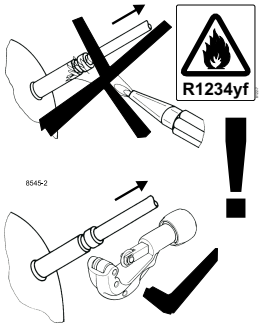
Keep electrical equipment clear from oil, chemicals, and water

## CSCR



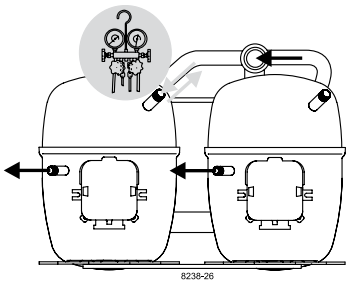

## Service/Repair – R1234yf

(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 |

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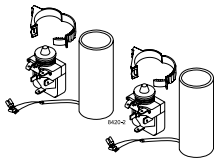


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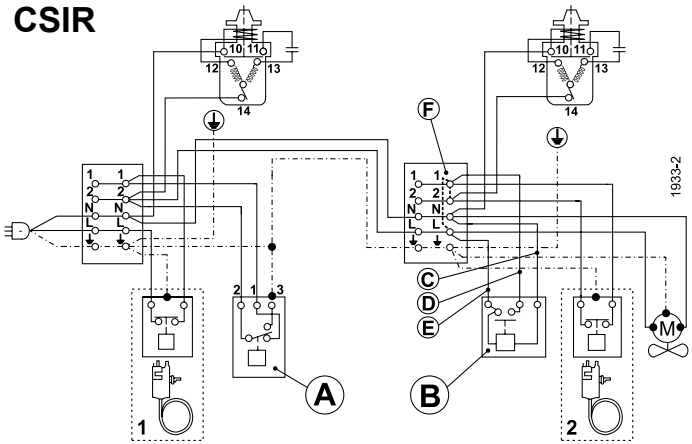
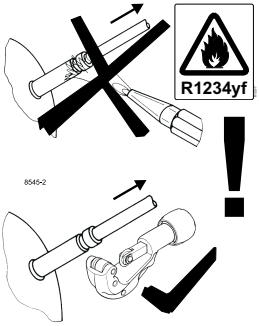
## CSIR




## 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 |
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| 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 |

**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**