

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 (80 μ F 220V, 6.3mm) | 117U5017 | 2 |
| 4 | Cord relief | 103N1004 | 2 |
| 5 | Cover | 103N2009 | 2 |

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Model

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

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R404A, R507 |
| Oil viscosity | 32cST | Displacement | 20,58cm ³ / 1,26cu.in |
| Oil quantity | 1233cm ³ / 41,7fl.oz | Compressors on pallet | 18 |
| Refr. charge - tech. limit | 2200g / 77,6oz | | |
| Free gas volume comp. | 2820cm ³ / 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~

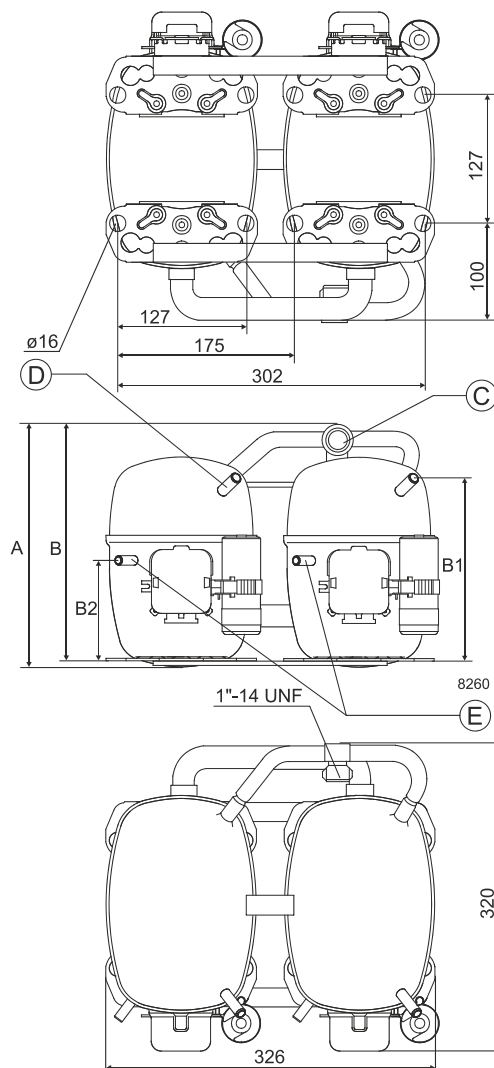
Sales code:

104L4087

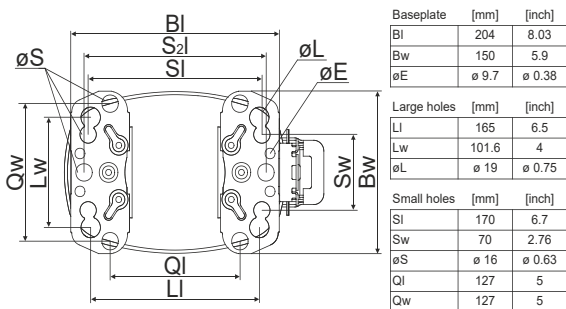
Compressor dimensions

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

| Connectors | | Suction | Discharge | Process |
|-----------------------|------|----------------|--------------|--------------|
| | | C | E | 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

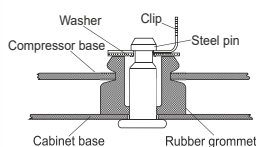
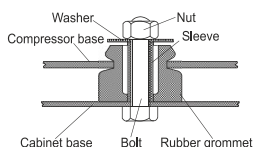


Mounting accessories

| | 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

| | | | | | |
|-------------|------------------|----------------------|----------------|-------------|-----------------|
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Configuration

| | |
|------------------------|------------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 220-240V/50Hz 1~ |
| Refrigerant | R404A |
| Application | LBP+MBP |
| Voltage range | 198-254V |
| Starting torque | HST |
| Approvals | CCC, VDE, |

Ambient/ machine room temperatures minimum /maximum

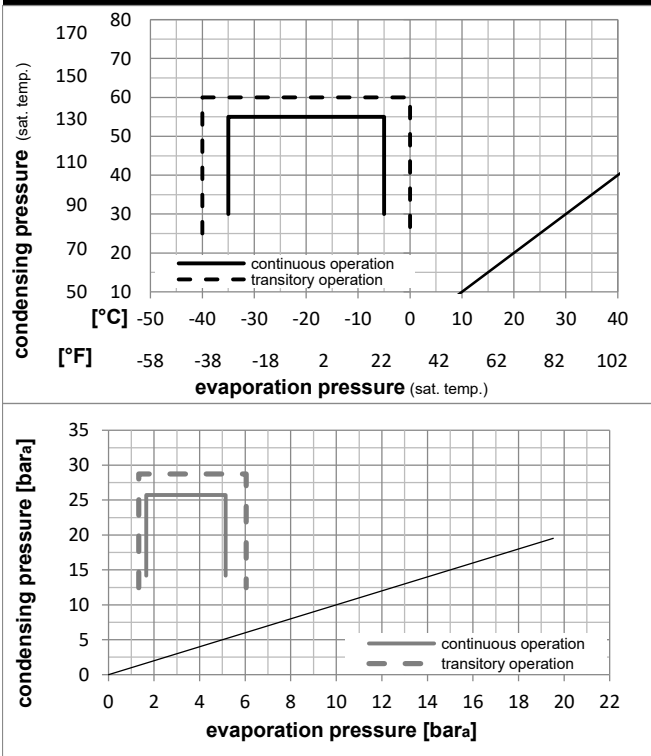
| | |
|---------------------------------|------------------------|
| Ambient temperature range: | 10 - 38°C / 50 - 101°F |
| Machine room temperature range: | 10 - 43°C / 50 - 110°F |
| Compressor cooling: | fan 3m/s |

Operation Limits

Electrical accessories / wiring diagram

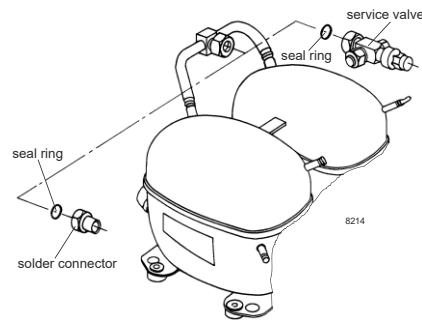


Operation pressure range



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

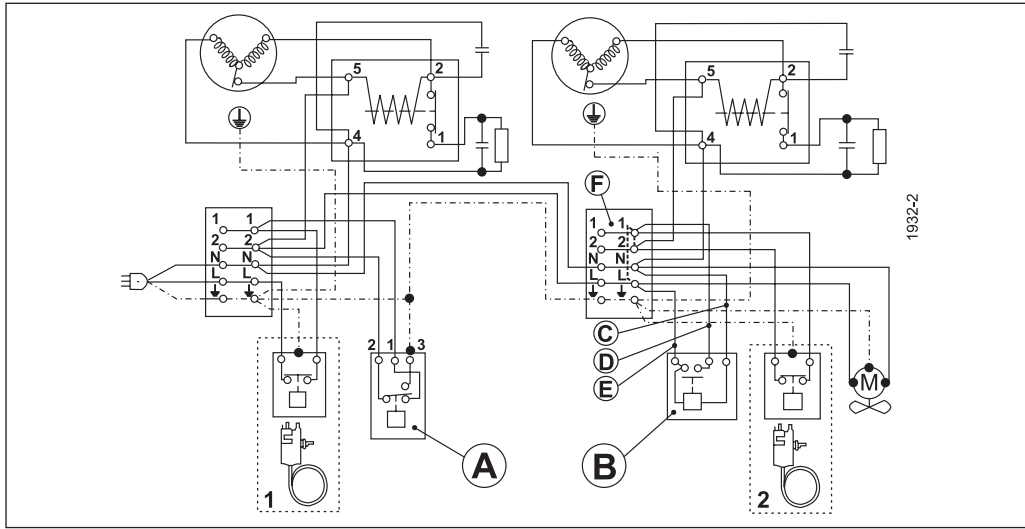
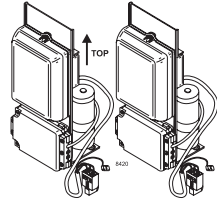
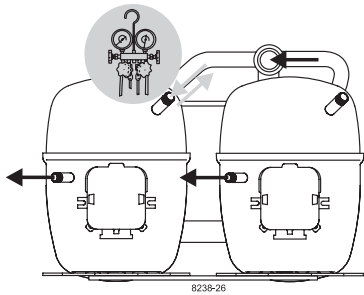
| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | | Power consumption | | | |
|------|------|---|------|--------------|------|--|---------|----------|-------|----------|---------------------|-------------------|----------------|--------|-------------|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

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 | Tijdvertraging-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 tidsfördröjningsrelä 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 Anlaufverzögerung 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 | Tijdvertraging-relais | Blauw | Zwart | Bruin | Verwijder draad L-1 indien tijdvertraging wordt toegepast | Verwijder draad 1-2 indien thermostaat wordt toegepast |
| DANSK | Sikkerhedspressostat | Tidsforsinkel-sesrelæ | 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 tidsfördröjningsrelä avlägsnas bygling L-1 | Vid anslutning av termostat 2 avlägsnas bygling 1-2 |

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