

Single Pack SC18/18CLX.2 220-240V 50Hz CSIR

Single pack code number: **195B3442**

| Position | Title | Code | Amount |
|----------|--|----------|--------|
| 1 | Compressor SC18/18CLX.2 | 104L4035 | 1 |
| 2 | Starting relay | 117U6013 | 2 |
| 3 | Starting capacitor (125 μ F 220V, 6.3mm) | 117U5012 | 2 |
| 4 | Cord relief | 103N1004 | 2 |
| 5 | Cover | 103N2009 | 2 |
| 6 | Snap-on in quantities \varnothing 7,3 \varnothing 16mm | 118-1919 | 2 |

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Model

| | | | | |
|-------------|---------------------|------------------|-------------|-----------------|
| Designation | SC18/18CLX.2 | 220-240V/50Hz 1~ | Sales code: | 104L4035 |
|-------------|---------------------|------------------|-------------|-----------------|

Compressor design

| | | | |
|----------------------------|---------------------------------|-----------------------|----------------------------------|
| Oil type | Polyolester | Refrigerant(s) | R404A, R507 |
| Oil viscosity | 32cST | Displacement | 35,36cm ³ / 2,16cu.in |
| Oil quantity | 1233cm ³ / 41,7fl.oz | Compressors on pallet | 18 |
| Refr. charge - tech. limit | 2200g / 77,6oz | | |
| Free gas volume comp. | 2920cm ³ / 98,7fl.oz | | |
| Weight | 29,1kg / 64,2lbs | | |
| Motor protection | 1# internal | | |
| Winding resistance main | 3,3Ω (at 25°C) | | |
| Winding resistance aux | 16,5Ω (at 25°C) | | |
| Max. winding temp. | 125°C / 257°F | | |
| Max. discharge temp. | 135°C / 275°F | | |



General - Configurations with SC18/18CLX.2

| | Conf. 1 |
|------------------------|----------------|
| Motorconfiguration | CSIR |
| Power supply (nominal) | 220-240V/50Hz |
| Number of phases | 1 |
| Voltage range | 198-254V |
| Approvals | CCC, VDE, EAC |
| Starting torque | HST |
| Note | - / - |

Applications with SC18/18CLX.2

| | Conf. 1 |
|-------------------------|----------------|
| Refrigerant | R404A |
| Application | LBP |
| System cooling | fan 3m/s |
| Hot gas defrost | OK |
| Long interval pull down | OK |

Electrical data - Configurations with SC18/18CLX.2

| | Conf. 1 |
|------------------------------|----------------|
| Starting device type | relay |
| Run capacitor | - / - |
| Start capacitor | 80μF |
| LRA (locked rotor amps / 4s) | 2x 23,5A |
| RLA (rated load amps / 1s) | 2x 4,5A |
| Cut in current | 2x 23,5A |

Model

Designation

SC18/18CLX.2

220-240V/50Hz 1~

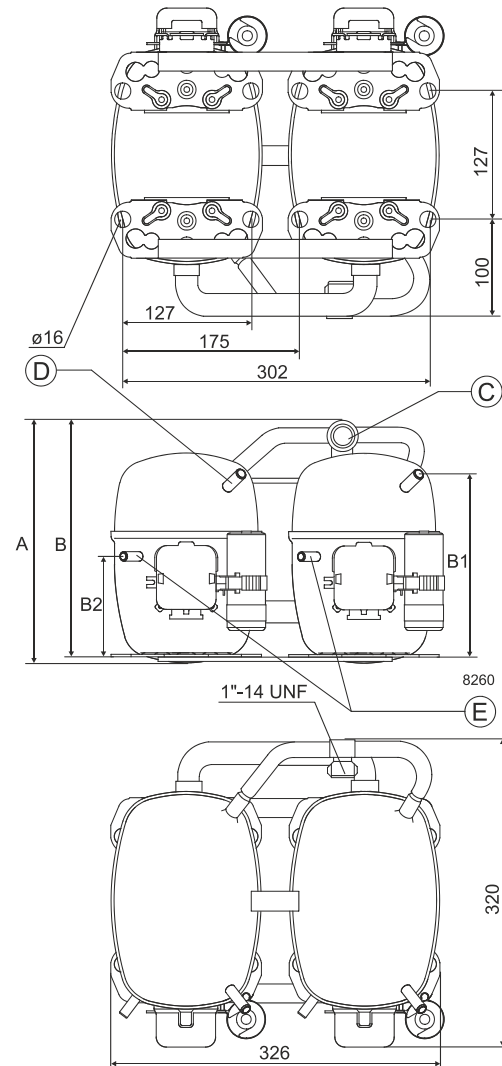
Sales code:

104L4035

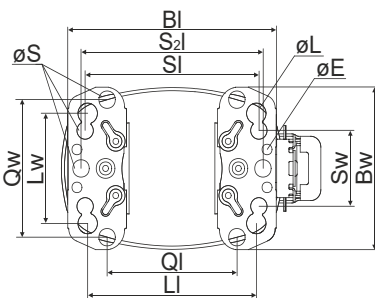
Compressor dimensions

| Housing | A Height | 259mm / 10,2in |
|---------|----------|----------------|
| | B Height | 254mm / 10in |
| | B1 | 193mm / 7,6in |
| | B2 | 110mm / 4,33in |

| 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



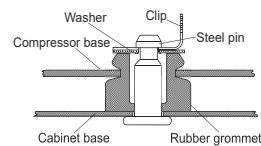
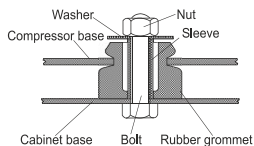
| Baseplate | [mm] | [inch] |
|-------------|-------|--------|
| BI | 204 | 8.03 |
| Bw | 150 | 5.9 |
| øE | ø 9.7 | ø 0.38 |
| Large holes | | |
| LI | 165 | 6.5 |
| Lw | 101.6 | 4 |
| øL | ø 19 | ø 0.75 |
| Small holes | | |
| SI | 170 | 6.7 |
| Sw | 70 | 2.76 |
| øS | ø 16 | ø 0.63 |
| QI | 127 | 5 |
| Qw | 127 | 5 |

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

| | | | | | |
|-------------|---------------------|----------------------|----------------|-------------|-----------------|
| Designation | SC18/18CLX.2 | 220-240V/50Hz | Conf. 1 | Sales code: | 104L4035 |
|-------------|---------------------|----------------------|----------------|-------------|-----------------|

Configuration

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

Ambient/ machine room temperatures minimum /maximum

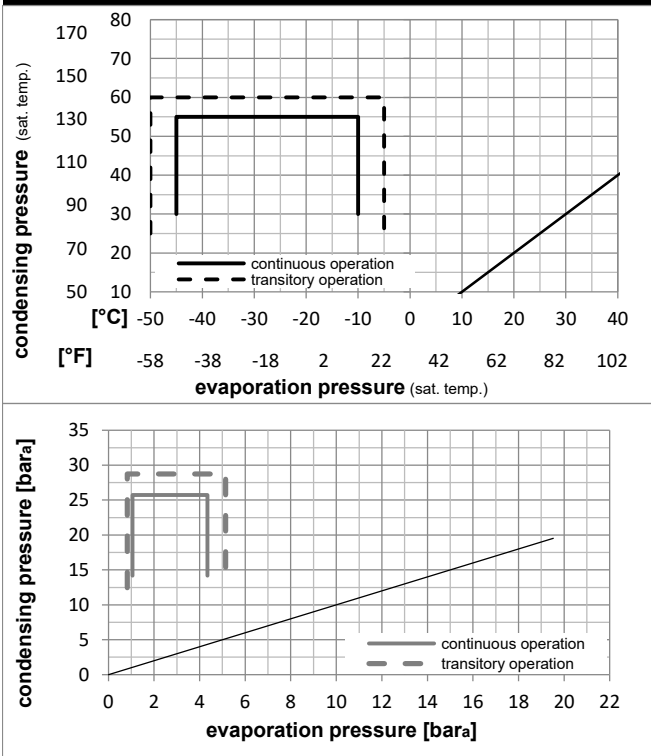
| | |
|---------------------------------|------------------------|
| Ambient temperature range: | 10 - 38°C / 50 - 101°F |
| Machine room temperature range: | 10 - 43°C / 50 - 110°F |
| Compressor cooling: | fan 3m/s |

Operation Limits

Electrical accessories / wiring diagram

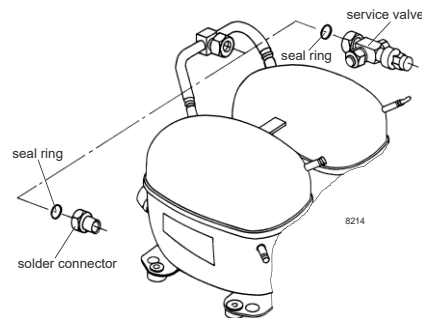


Operation pressure range



Components

| | | |
|----|--|----------|
| a2 | relay | 117U6013 |
| c | start capacitor (125µF) | 117U5012 |
| d | cord relief | 103N1004 |
| b | plastic cover | 103N2009 |
| . | Check valve (to be used with time-delay relay) | 020-1014 |
| . | Service valve 16mm | 118-7351 |
| . | Solder connector (alternative) 16 mm | 118-7405 |
| . | Seal ring for service valve and solder conn. | 118-3638 |



Model

Designation **SC18/18CLX.2 220-240V/50Hz** Conf. 1 Sales code: **104L4035**

Optimization + standard conditions

R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE, EAC

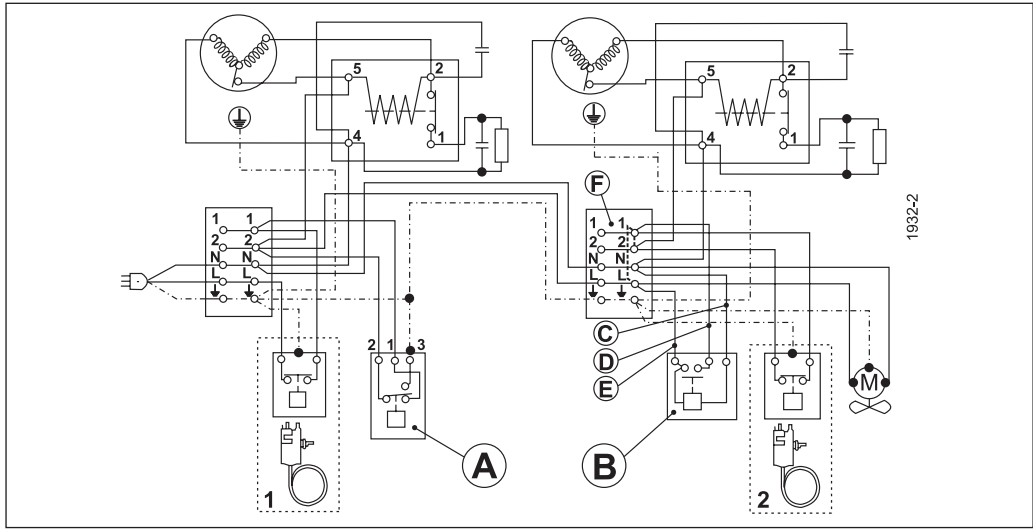
| | | Evaporating pressure (saturation temperature) | | | | Condensing pressure (saturation temperature) | | | | | Power consumption | | | | |
|------|------|---|------|--------------|------|--|---------|----------|-------|----------|-------------------|--------|---------------------|-------|----------------|
| | | Return gas temp. | | Liquid temp. | | Cooling capacity | | | COP | EER | P1 | | Current consumption | | Ref. mass flow |
| | | pe | pc | RGT | Tliq | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [kcal/Wh] | [W] | I | m | [kg/h] |
| [°C] | [°F] | [°C] | [°F] | [°C] | [°C] | | | | | | | | [A] | | |
| -23 | -10 | 54 | 130 | 32 | 32 | 1756,7 | 6000 | 1511,8 | 1,20 | 4,08 | 1,03 | 1469,4 | 8,91 | 40,93 | ASHRAE LBP |
| -25 | -13 | 55 | 131 | 32 | 55 | 1182,3 | 4038 | 1017,5 | 0,84 | 2,86 | 0,72 | 1409,4 | 8,68 | 36,95 | cecomaf LBP |
| -35 | -31 | 40 | 104 | 20 | 40 | 953,9 | 3258 | 820,9 | 0,93 | 3,18 | 0,80 | 1023,5 | 7,37 | 25,92 | EN12900 LBP |
| -23 | -10 | 49 | 120 | 4,4 | 49 | 1327,5 | 4534 | 1142,4 | 0,93 | 3,16 | 0,80 | 1432,6 | 8,84 | 47,00 | ARI540 LBP |
| -23 | -10 | 41 | 105 | 32 | 32 | 2031,7 | 6939 | 1748,5 | 1,47 | 5,02 | 1,27 | 1381,9 | 8,68 | 47,34 | AHAM LBP |
| -35 | -31 | 45 | 113 | 32 | 45 | 871,0 | 2975 | 749,6 | 0,85 | 2,89 | 0,73 | 1029,0 | 7,37 | 23,29 | opt |

Performance tables

R404A, 220V/50Hz, CSIR, fan 3m/s, CCC, VDE, EAC

| | 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] | -45 | -49 | 385,2 | 1315 | 331,5 | 0,55 | 1,87 | 0,47 | 704,4 | 6,25 | 10,23 |
| cond. pressure | -35 | -31 | 871,0 | 2975 | 749,6 | 0,85 | 2,89 | 0,73 | 1029,0 | 7,37 | 23,29 |
| pc= 45/113 | -30 | -22 | 1183,1 | 4040 | 1018,1 | 0,99 | 3,40 | 0,86 | 1189,3 | 7,95 | 31,76 |
| return gas temp. | -25 | -13 | 1550,0 | 5294 | 1334,0 | 1,15 | 3,91 | 0,99 | 1352,5 | 8,56 | 41,81 |
| RGT= 32/90 | -20 | -4 | 1978,5 | 6757 | 1702,8 | 1,30 | 4,44 | 1,12 | 1521,5 | 9,19 | 53,68 |
| liquid temp | -15 | 5 | 2475,3 | 8453 | 2130,2 | 1,46 | 4,97 | 1,25 | 1699,2 | 9,84 | 67,62 |
| Tliq= 45/113 | -10 | 14 | 3046,8 | 10405 | 2622,1 | 1,61 | 5,51 | 1,39 | 1888,9 | 10,51 | 83,90 |
| [°C / °F] | -45 | -49 | 183,6 | 627 | 158,0 | 0,29 | 0,98 | 0,25 | 637,6 | 6,01 | 5,64 |
| cond. pressure | -35 | -31 | 604,6 | 2065 | 520,3 | 0,59 | 2,00 | 0,51 | 1029,9 | 7,30 | 18,70 |
| pc= 55/131 | -30 | -22 | 870,5 | 2973 | 749,2 | 0,71 | 2,44 | 0,61 | 1219,8 | 7,98 | 27,05 |
| return gas temp | -25 | -13 | 1182,3 | 4038 | 1017,5 | 0,84 | 2,86 | 0,72 | 1409,4 | 8,68 | 36,95 |
| RGT= 32/90 | -20 | -4 | 1546,5 | 5282 | 1330,9 | 0,97 | 3,30 | 0,83 | 1602,0 | 9,40 | 48,66 |
| liquid temp | -15 | 5 | 1969,8 | 6727 | 1695,2 | 1,09 | 3,74 | 0,94 | 1800,4 | 10,14 | 62,47 |
| Tliq= 55/131 | -10 | 14 | 2458,8 | 8397 | 2116,1 | 1,22 | 4,18 | 1,05 | 2007,6 | 10,90 | 78,71 |

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 | Tijdvertragingrelais | 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 |



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 avvia. | 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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