Single
Packs

# Single Pack GS34CLX 220-240V 50Hz CSCR

Single pack code number: **195B4638**

| Position | Title | Code | Amount |
|---|---|---|---|
| 1 | Compressor GS34CLX | 107B0525 | 1 |
| 2 | GS starting device (600mm) | 117-7074 | 1 |
| 3 | Bolt joint for one compressor \| M8 \| ø19mm | 107B9150 | 1 |
| **Below electrical equipment is pre-assembled on the compressor:** | | | |
| 4 | Cover | 107B9106 | 1 |
| 5 | Cover clamp | 107B9104 | 1 |
| 6 | Cover gasket | 107B9100 | 1 |

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**Model**
**GS34CLX**

Sales code:
**107B0525**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R404A / R452A** |
| Refr. charge - tech. limit | **2000g / 70.55oz** |
| Weight | **20.00 kg / 44.09lbs** |
| Displacement | **33.80 cm3 / 2.06cu.in** |
| Compressors on pallet | **48** |

## General – Configurations With GS34CLX

| – | **Conf. 1** | **Conf. 2** |
|---|---|---|
| Motor configuration | CSCR | CSCR |
| Power supply (nominal) | 220-240 V/50 Hz | 220-240 V/50 Hz |
| Number of phases | 1 | 1 |
| Voltage range | 198-254 V | 198-254 V |
| Approvals | VDE, EAC | VDE, EAC |
| Starting torque | HST | HST |
| Refrigerant | R404A | R452A |
| Application | LBP | LBP |
| Hot gas defrost | OK | OK |
| Long interval pull down | OK | OK |

## Application Notes

- Cover, clamp, gasket: pre-assembled to compressor.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Compressor dimension sketch can vary, due to switch of connectors

**Model**
**GS34CLX**

Sales code:
**107B0525**

## Compressor Design

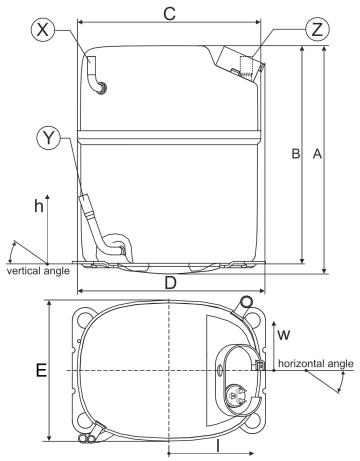
| | | | |
|---|---|---|---|
| Oil type | **POE** | Motor protection | **internal** |
| Oil viscosity | **46cSt** | Winding resistance main | **1.6 Ohm** |
| Oil quantity | **906 / 30.64fl.oz** | Winding resistance aux | **6.7 Ohm** |
| Free gas volume comp. | **3,350 cm3 / 113.28fl.oz** | Max. discharge temp. | **130°C / 266°F** |

## Compressor Dimensions

**Housing**

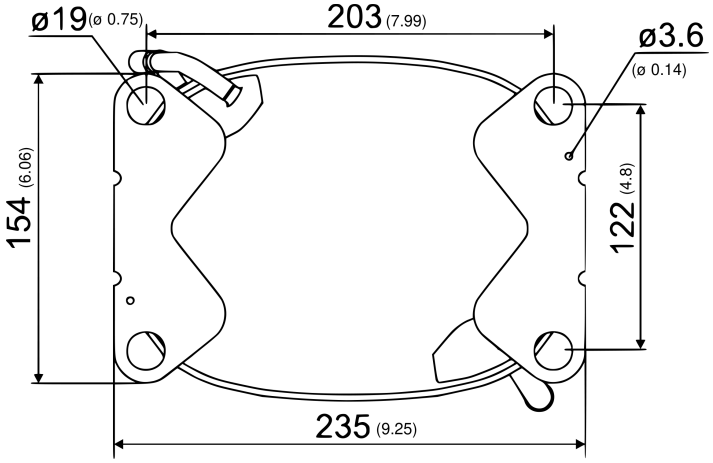
| | |
|---|---|
| A Height | **279mm / 10.98in** |
| B Height | **267mm / 10.51in** |
| C Length shell | **224mm / 8.82in** |
| D Length w. cover | **232mm / 9.13in** |
| E Width | **173mm / 6.81in** |

Find 3D Model here



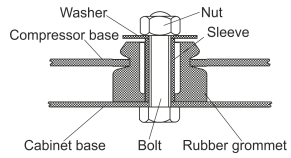

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 12.75–13.05 / 0.50–0.51in | øi 8.15–8.25 / 0.32–0.32in | øi 6.4–6.6 / 0.25–0.26in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 0° | 0° | 0° |
| Vertical angle ±2° | 90° | 71° | 90° |
| Position l/h/w [mm] | -94.5/234/-84 / -3.72/9.21/-3.31in | -105/84/-84 / -4.13/3.31/-3.31in | 94.5/234/84 / 3.72/9.21/3.31in |
| Straight tube l. [mm] | 18 / 0.71in | 22.5 / 0.89in | 15 / 0.59in |

## Mounting Accessories




Dimensions in mm [in]

Bolt joint




| | one comp. | multi pack |
|---|---|---|
| Bolt joint \| M8 \| ø19mm | 107B9150 | – |

**Model**
**GS34CLX** Configuration 1

Sales code:
**107B0525**

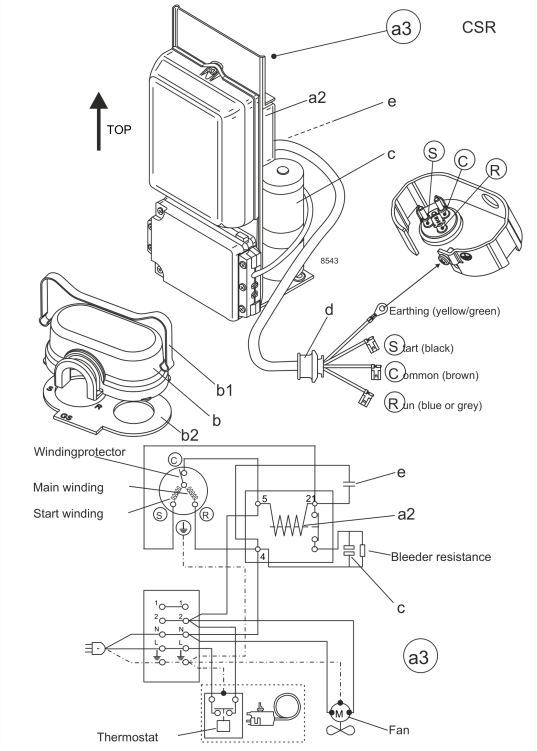
## Configuration

| | |
|---|---|
| Motor configuration | **CSCR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R404A** |
| Application | **LBP** |
| Voltage range | **198-254 V** |
| Starting torque | **HST** |
| Approvals | **VDE, EAC** |
| Starting device type | **relay** |
| Run capacitor | **15 µF** |
| Start capacitor | **100 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **40 A** |
| RLA (rated load amps / 1s/ U(N)) | **5.6 A** |
| Cut in current (U(N)) | **40 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

**System Cooling**
fan 3m/s

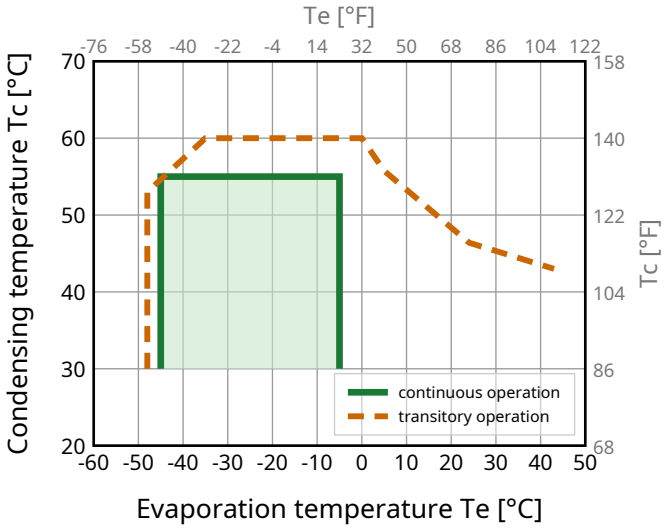
## Electrical Accessories / Wiring Diagram

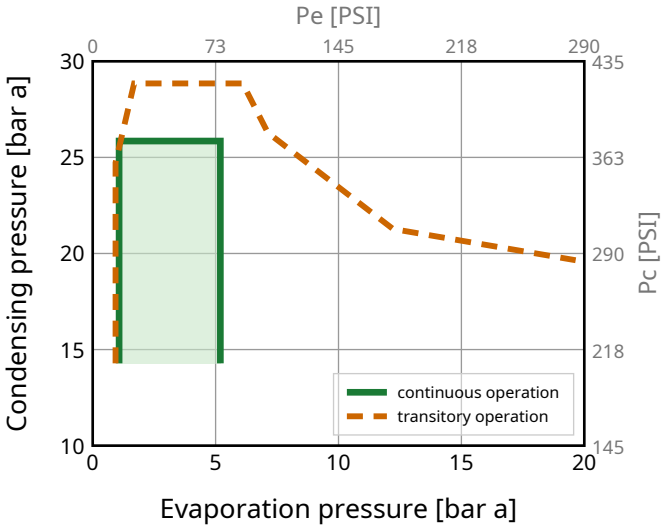



View full size

**Components (cover, clamp, gasket: pre assembled)**
**a3** GS starter kit 117-7074
**b** cover 107B9101
**b2** gasket 107B9100
**b1** clamp 107B9104

## Operation Pressure Range



**Model**
**GS34CLX** Configuration 1

Sales code:
**107B0525**

## Standard Conditions

**R404A**, 220 V/50 Hz, CSCR, fan 3m/s

| pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P | I | ṁ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] [°F] | [°C] [°F] | [°C] [°F] | [°C] [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] | |
| -23.3 -10 | 54.4 129.9 | 32.2 90 | 32.2 90 | **1916** | 6537 | 1648 | **1.45** | 4.93 | 1325 | 6.83 | 44.54 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **1295** | 4420 | 1114 | **1.03** | 3.50 | 1262 | 6.58 | 40.39 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **1004** | 3424 | 863 | **1.08** | 3.70 | 924 | 4.93 | 27.19 | **EN12900 LBP** |
| -23.3 -10 | 48.8 119.8 | 4.4 39.9 | 48.8 119.8 | **1418** | 4837 | 1219 | **1.08** | 3.70 | 1307 | 6.58 | 50.02 | **ARI540 LBP** |
| -23.3 -10 | 40.6 105.1 | 32.2 90 | 32.2 90 | **2124** | 7246 | 1826 | **1.70** | 5.79 | 1252 | 6.29 | 49.37 | **AHAM LBP** |
| -35 -31 | 45 113 | 32 89.6 | 45 113 | **935** | 3192 | 804 | **1.00** | 3.43 | 931 | 4.92 | 24.94 | **opt LBP** |

## Performance Tables

**R404A**, 220 V/50 Hz, CSCR, fan 3m/s

**pc= 45/113 | RGT= 20/68 | Tliq= 45/113 | °C/°F**

| pe | | Cooling capacity | | | COP | EER | P | I | ṁ |
|---|---|---|---|---|---|---|---|---|---|
| [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] |
| -45 | -49 | **416** | 1418 | 358 | **0.67** | 2.29 | 618 | 3.91 | 11.94 |
| -40 | -40 | **631** | 2154 | 543 | **0.81** | 2.76 | 780 | 4.38 | 18.20 |
| -30 | -22 | **1191** | 4063 | 1024 | **1.10** | 3.76 | 1079 | 5.52 | 34.66 |
| -20 | -4 | **1967** | 6713 | 1692 | **1.41** | 4.81 | 1394 | 6.92 | 58.04 |
| -10 | 14 | **3014** | 10285 | 2592 | **1.69** | 5.78 | 1780 | 8.58 | 90.64 |
| -5 | 23 | **3656** | 12475 | 3144 | **1.81** | 6.19 | 2016 | 9.51 | 111.29 |

**pc= 55/131 | RGT= 20/68 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -45 | -49 | **248** | 846 | 213 | **0.51** | 1.73 | 489 | 3.73 | 8.34 |
| -40 | -40 | **434** | 1480 | 373 | **0.62** | 2.12 | 698 | 4.34 | 14.66 |
| -30 | -22 | **908** | 3097 | 781 | **0.84** | 2.87 | 1078 | 5.77 | 31.00 |
| -20 | -4 | **1562** | 5331 | 1344 | **1.08** | 3.67 | 1452 | 7.45 | 54.23 |
| -10 | 14 | **2452** | 8367 | 2109 | **1.31** | 4.46 | 1876 | 9.39 | 87.05 |
| -5 | 23 | **3002** | 10244 | 2582 | **1.41** | 4.82 | 2123 | 10.46 | 108.13 |

**Model**
**GS34CLX** Configuration 2

Sales code:
**107B0525**

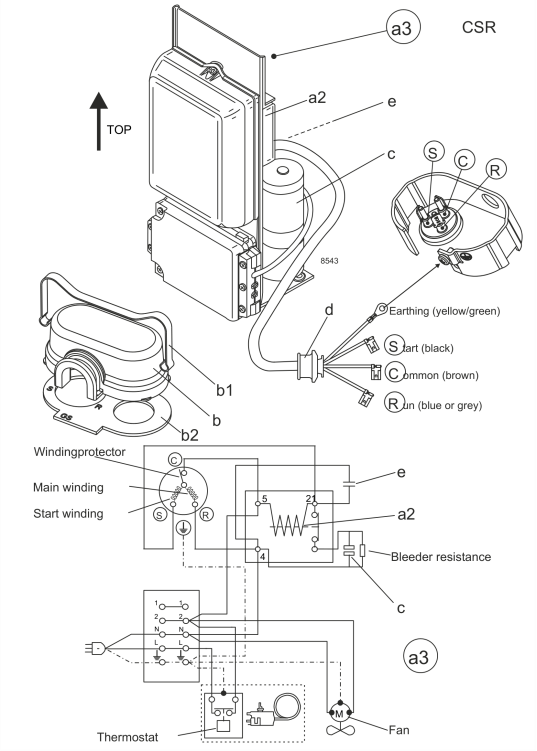
## Configuration

| | |
|---|---|
| Motor configuration | **CSCR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R452A** |
| Application | **LBP** |
| Voltage range | **198-254 V** |
| Starting torque | **HST** |
| Approvals | **VDE, EAC** |
| Starting device type | **relay** |
| Run capacitor | **15 µF** |
| Start capacitor | **100 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **40 A** |
| RLA (rated load amps / 1s/ U(N)) | **5.6 A** |
| Cut in current (U(N)) | **40 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 38°C / 50 - 100°F
Machine room temp. compressor: 10 - 43°C / 50 - 109°F

**System Cooling**
fan 3m/s

## Electrical Accessories / Wiring Diagram

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**Components (cover, clamp, gasket: pre assembled)**
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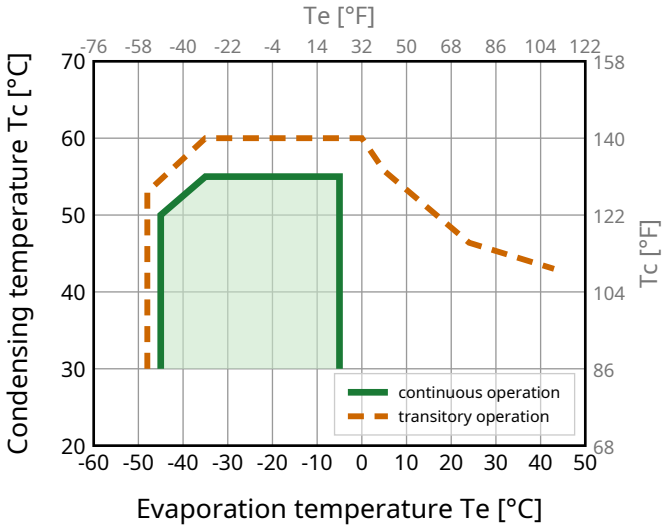
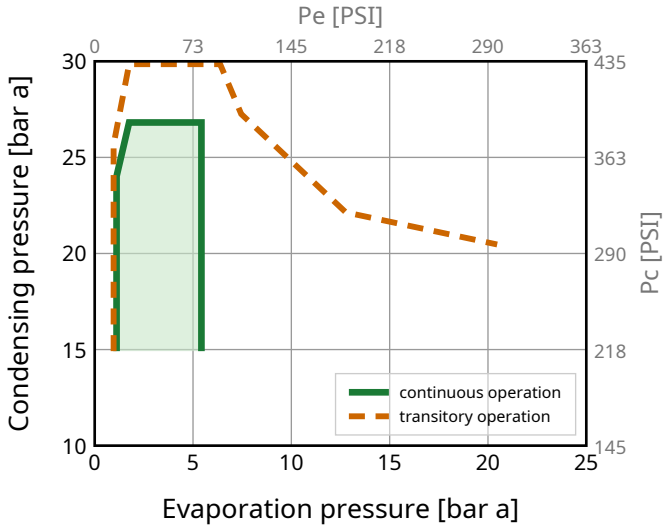
**b** cover 107B9101
**b2** gasket 107B9100
**b1** clamp 107B9104

## Operation Pressure Range



**Model**
**GS34CLX** Configuration 2

Sales code:
**107B0525**

## Standard Conditions

**R452A**, 220 V/50 Hz, CSCR, fan 3m/s

| pe | pc | RGT | Tliq | Cooling capacity | | | COP | EER | P | I | ṁ | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| [°C] [°F] | [°C] [°F] | [°C] [°F] | [°C] [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] | |
| -23.3 -10 | 54.4 129.9 | 32.2 90 | 32.2 90 | **1867** | 6369 | 1605 | **1.52** | 5.19 | 1228 | 5.57 | 45.17 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **1258** | 4294 | 1082 | **1.08** | 3.67 | 1168 | 5.39 | 40.60 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **934** | 3186 | 803 | **1.10** | 3.75 | 850 | 4.43 | 26.30 | **EN12900 LBP** |
| -23.3 -10 | 48.8 119.8 | 4.4 39.9 | 48.8 119.8 | **1386** | 4729 | 1192 | **1.14** | 3.89 | 1215 | 5.53 | 50.59 | **ARI540 LBP** |
| -23.3 -10 | 40.6 105.1 | 32.2 90 | 32.2 90 | **2056** | 7016 | 1768 | **1.76** | 6.02 | 1166 | 5.38 | 49.76 | **AHAM LBP** |
| -35 -31 | 45 113 | 32 89.6 | 45 113 | **869** | 2966 | 748 | **1.02** | 3.48 | 852 | 4.44 | 24.09 | **opt LBP** |

## Performance Tables

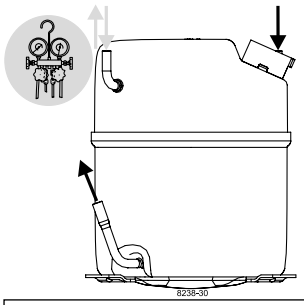
**R452A**, 220 V/50 Hz, CSCR, fan 3m/s

**pc= 45/113 | RGT= 20/68 | Tliq= 45/113 | °C/°F**

| pe | | Cooling capacity | | | COP | EER | P | I | ṁ |
|---|---|---|---|---|---|---|---|---|---|
| [°C] | [°F] | [W] | [Btu/h] | [kcal/h] | [W/W] | [Btu/Wh] | [W] | [A] | [kg/h] |
| -45 | -49 | **425** | 1451 | 366 | **0.82** | 2.79 | 520 | 3.44 | 12.68 |
| -40 | -40 | **592** | 2021 | 509 | **0.85** | 2.90 | 696 | 3.97 | 17.73 |
| -30 | -22 | **1126** | 3843 | 969 | **1.13** | 3.85 | 999 | 4.88 | 34.02 |
| -20 | -4 | **1938** | 6612 | 1667 | **1.49** | 5.09 | 1299 | 5.78 | 59.32 |
| -10 | 14 | **3040** | 10374 | 2615 | **1.82** | 6.22 | 1668 | 6.89 | 94.84 |
| -5 | 23 | **3705** | 12642 | 3186 | **1.95** | 6.65 | 1902 | 7.59 | 116.99 |

**pc= 55/131 | RGT= 20/68 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -45 | -49 | **280** | 954 | 241 | **0.70** | 2.40 | 398 | 3.07 | 9.72 |
| -40 | -40 | **412** | 1404 | 354 | **0.67** | 2.28 | 616 | 3.73 | 14.37 |
| -30 | -22 | **858** | 2929 | 738 | **0.86** | 2.95 | 993 | 4.86 | 30.29 |
| -20 | -4 | **1560** | 5323 | 1342 | **1.16** | 3.95 | 1348 | 5.92 | 55.92 |
| -10 | 14 | **2530** | 8634 | 2176 | **1.44** | 4.92 | 1755 | 7.15 | 92.73 |
| -5 | 23 | **3121** | 10648 | 2684 | **1.56** | 5.32 | 2001 | 7.88 | 116.00 |



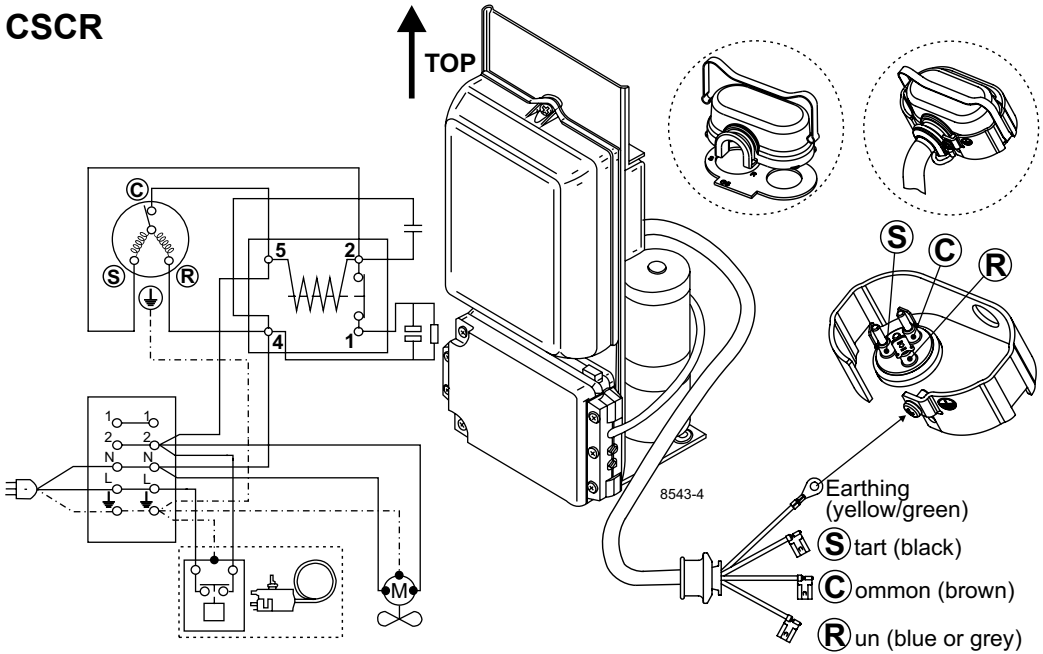

# GS Compressors

SECOP

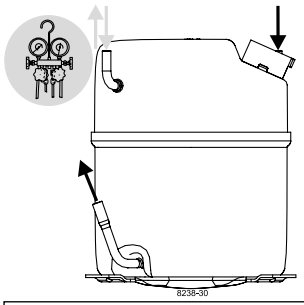
Keep electrical equipment clear from oil, chemicals, and water

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

## CSCR




| | S | C | R |
|---|---|---|---|
| ENGLISH | Black | Brown | Blue or grey |
| DEUTSCH | Schwarz | Braun | Blau od. grau |
| FRANÇAIS | Noir | Marron | Bleu ou gris |
| ESPAÑOL | Negro | Marrón | Azul o gris |
| ITALIANO | Nero | Marrone | Blu o grigio |
| NEDERLANDS | Zwart | Bruin | Blauw of grijs |
| DANSK | Sort | Brun | Blå eller grå |
| SVENSKA | Svart | Brun | Blå eller grå |
| SUOMEKSI | Musta | Ruskea | Sininen tai harmaa |
| РУССКИЙ | Чёрный | Корич-невый | Синий или серый |
| 中文 | 黑色 | 棕色 | 蓝色或灰色 |




# GS Compressors

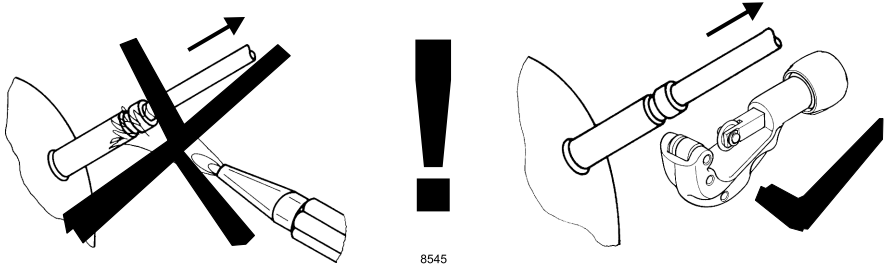
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

## Service/Repair – R1234yf

(applies to all flammable refrigerants)




**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**