Singolo
Imballi

# Single Pack KLF6.6CND 220-240V 50Hz CSIR

Codice Imballo Singolo: **195B4596**

| Posizione | Titolo | Codice | Quantità |
|---|---|---|---|
| 1 | Compressor KLF6.6CND | 106H2700 | 1 |
| 2 | Starting relay (QLZ-5.5A, overload protector T0377/L6) | 117U7071 | 1 |
| 3 | Starting capacitor (80µF 220V, 6.3mm) | 117U5001 | 1 |
| 4 | KL accessories | 103N1060 | 1 |
| 5 | Bolt joint for one compressor \| M6 \| ø16mm | 118-1917 | 1 |

**Secop GmbH** • Lise-Meitner-Straße 29 • 24941 Flensburg, Germany • Tel: +49 461 4941 0 • **www.secop.com**

Secop non si assume alcuna responsabilità per eventuali errori presenti in cataloghi, brochure e altro materiale stampato. Secop si riserva il diritto di modificare i propri prodotti senza preavviso. Ciò vale anche per i prodotti già ordinati, a condizione che tali modifiche possano essere apportate senza che siano necessarie modifiche successive alle specifiche già concordate. Tutti i marchi presenti in questo materiale sono di proprietà delle rispettive aziende. Secop e il logo Secop sono marchi di Secop GmbH. Tutti i diritti sono riservati.

**Model**
**KLF6.6CND**

Sales code:
**106H2700**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R290** |
| Refr. charge - tech. limit | **200g / 7.05oz** |
| Weight | **9.50 kg / 20.94lbs** |
| Displacement | **6.60 cm3 / 0.40cu.in** |
| Compressors on pallet | **100** |

## General – Configurations With KLF6.6CND

| – | **Conf. 1** | **Conf. 2** |
|---|---|---|
| Motor configuration | CSIR | RSCR |
| 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, CCC | VDE, CCC |
| Starting torque | HST | LST |
| Refrigerant | R290 | R290 |
| Application | LBP+MBP | LBP+MBP |
| Hot gas defrost | OK | OK |
| Long interval pull down | OK | OK |

## Application Notes

- Provision for PE Grounding is located at the PE Stamp on the compressor

**Model**
**KLF6.6CND**

Sales code:
**106H2700**

## Compressor Design

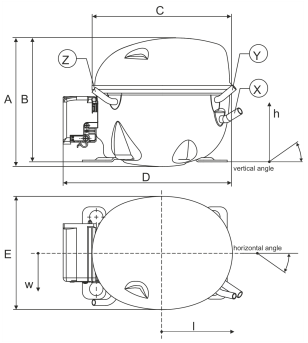
| | | | |
|---|---|---|---|
| Oil type | **POE** | Winding resistance main | **8.4 Ohm** |
| Oil viscosity | **9,7cSt** | Winding resistance aux | **11.9 Ohm** |
| Oil quantity | **165 / 5.58fl.oz** | Max. winding temp. | **125 °C** |
| Free gas volume comp. | **1,583 cm3 / 53.53fl.oz** | Max. discharge temp. | **130°C / 266°F** |
| Motor protection | **external** | | |

## Compressor Dimensions

**Housing**

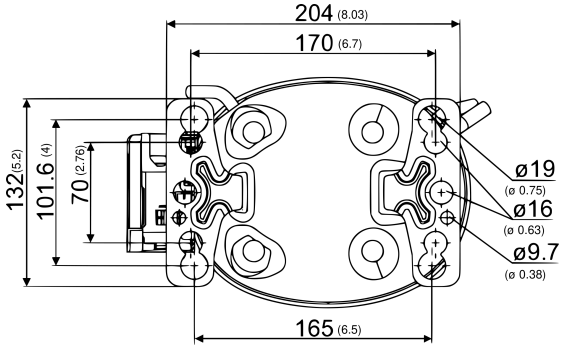
| | |
|---|---|
| A Height | **182mm / 7.17in** |
| B Height | **175mm / 6.89in** |
| C Length shell | **198mm / 7.80in** |
| D Length w. cover | **238mm / 9.37in** |
| E Width | **160mm / 6.30in** |

Find 3D Model here



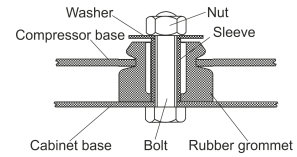

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 8.11–8.29 / 0.32–0.33in | øi 6.11–6.29 / 0.24–0.25in | øi 6.11–6.29 / 0.24–0.25in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 35° | 13° | 0° |
| Vertical angle ±2° | 30° | 40° | 145° |
| Position l/h/w [mm] | 119/73/59 / 4.69/2.87/2.32in | 117/107/66 / 4.61/4.21/2.60in | -88/101/71 / -3.46/3.98/2.80in |
| Straight tube l. [mm] | 13.5 / 0.53in | 13.5 / 0.53in | 13.5 / 0.53in |

## Mounting Accessories

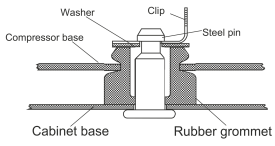



Dimensions in mm [in]

Bolt joint




Snap-on




| | 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 |

**Model**
**KLF6.6CND** Configuration 1

Sales code:
**106H2700**

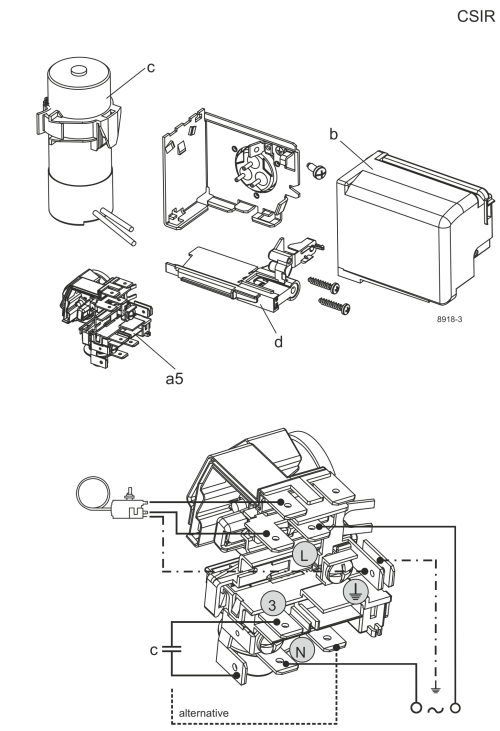
## Configuration

| | |
|---|---|
| Motor configuration | **CSIR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R290** |
| Application | **LBP+MBP** |
| Voltage range | **198-254 V** |
| Starting torque | **HST** |
| Approvals | **VDE, CCC** |
| Starting device type | **relay** |
| Run capacitor | **-/-** |
| Start capacitor | **80 µF** |
| LRA (locked rotor amps / 4s/ U(N)) | **13.2 A** |
| RLA (rated load amps / 1s/ U(N)) | **2.1 A** |
| Cut in current (U(N)) | **12.3 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

**System Cooling**
fan 3m/s

## Electrical Accessories / Wiring Diagram

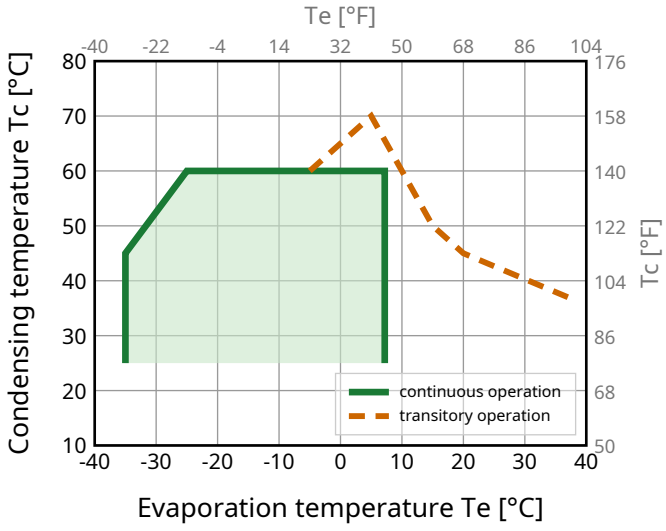


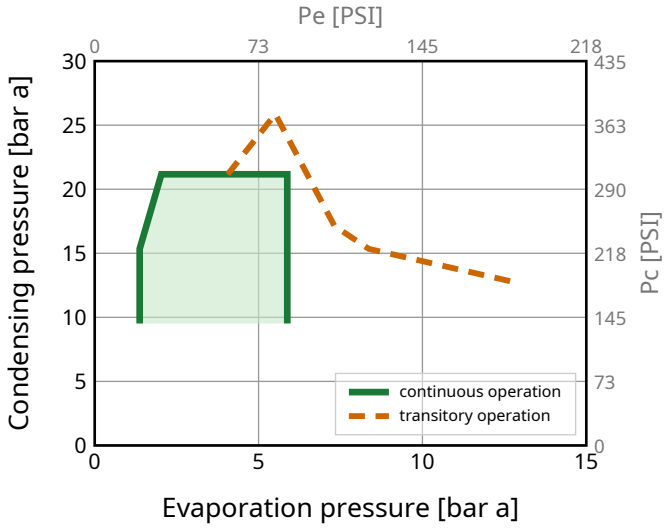

View full size

**Components**
**a5** current relay (T0377/L6-S1) 117U7071
**c** start capacitor (80µF, 6.3mm) 117U5001
**b, d** cover + clamp + screws (5VA-compl.) 103N0600

**Alternative components**
**b, d** 100x cover + clamp + screws (5VA) 103N2060
**b, d** cover + clamp + screws (5VA) in bag 103N1060

## Operation Pressure Range



**Model**
**KLF6.6CND** Configuration 1

Sales code:
**106H2700**

## Standard Conditions

**R290**, 220 V/50 Hz, CSIR, 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 | **339** | 1155 | 291 | **1.51** | 5.17 | 224 | 1.59 | 3.44 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **252** | 858 | 216 | **1.17** | 3.98 | 216 | 1.57 | 3.15 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **188** | 642 | 162 | **1.20** | 4.11 | 156 | 1.42 | 2.16 | **EN12900 LBP** |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **596** | 2033 | 512 | **2.02** | 6.88 | 296 | 1.82 | 6.82 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **475** | 1621 | 409 | **1.67** | 5.69 | 285 | 1.78 | 6.04 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **526** | 1795 | 452 | **2.05** | 6.98 | 257 | 1.69 | 6.47 | **EN12900 MBP** |

## Performance Tables

**R290**, 220 V/50 Hz, CSIR, fan 3m/s

**pc= 45/113 | RGT= 32/89.6 | 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] |
| -35 | -31 | **178** | 608 | 153 | **1.12** | 3.82 | 159 | 1.43 | 2.01 |
| -30 | -22 | **232** | 793 | 200 | **1.28** | 4.37 | 182 | 1.48 | 2.63 |
| -20 | -4 | **367** | 1253 | 316 | **1.65** | 5.63 | 222 | 1.58 | 4.18 |
| -10 | 14 | **547** | 1866 | 470 | **2.13** | 7.26 | 257 | 1.69 | 6.28 |
| 0 | 32 | **783** | 2673 | 674 | **2.75** | 9.39 | 285 | 1.78 | 9.11 |
| 7.2 | 45 | **996** | 3398 | 856 | **3.32** | 11.33 | 300 | 1.83 | 11.71 |

**pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **140** | 477 | 120 | **0.86** | 2.95 | 162 | 1.44 | 1.74 |
| -30 | -22 | **193** | 658 | 166 | **1.02** | 3.48 | 189 | 1.50 | 2.41 |
| -20 | -4 | **317** | 1082 | 273 | **1.32** | 4.50 | 240 | 1.64 | 3.99 |
| -10 | 14 | **475** | 1621 | 409 | **1.67** | 5.69 | 285 | 1.78 | 6.04 |
| 0 | 32 | **679** | 2317 | 584 | **2.12** | 7.22 | 321 | 1.91 | 8.76 |
| 7.2 | 45 | **861** | 2938 | 740 | **2.52** | 8.59 | 342 | 1.99 | 11.25 |

**Model**
**KLF6.6CND** Configuration 2

Sales code:
**106H2700**

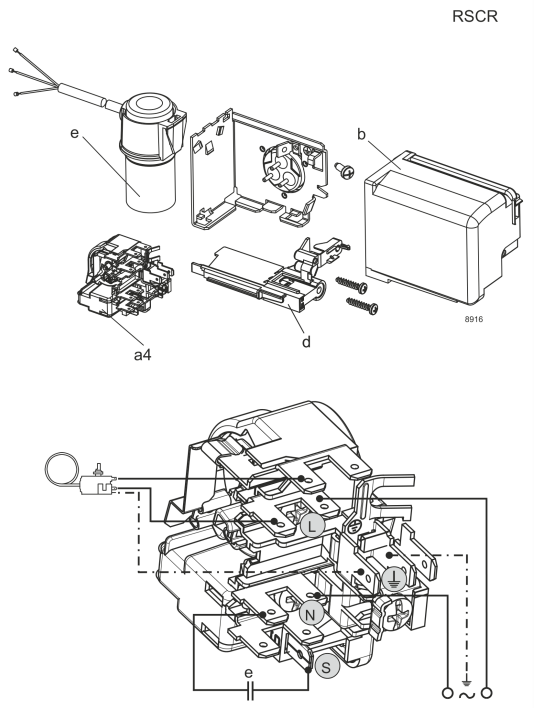
## Configuration

| | |
|---|---|
| Motor configuration | **RSCR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R290** |
| Application | **LBP+MBP** |
| Voltage range | **198-254 V** |
| Starting torque | **LST** |
| Approvals | **VDE, CCC** |
| Starting device type | **PTC** |
| Run capacitor | **5 µF** |
| Start capacitor | **-/-** |
| LRA (locked rotor amps / 4s/ U(N)) | **13.2 A** |
| RLA (rated load amps / 1s/ U(N)) | **2.1 A** |
| Cut in current (U(N)) | **12.3 A** |

**Ambient/ machine room temperatures minimum /maximum**
Ambient temperature range: 10 - 43°C / 50 - 109°F
Machine room temp. compressor: 10 - 48°C / 50 - 118°F

**System Cooling**
fan 3m/s

## Electrical Accessories / Wiring Diagram

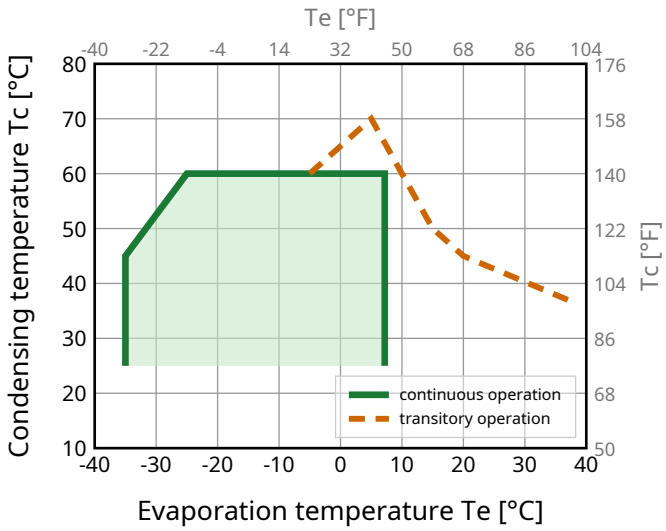


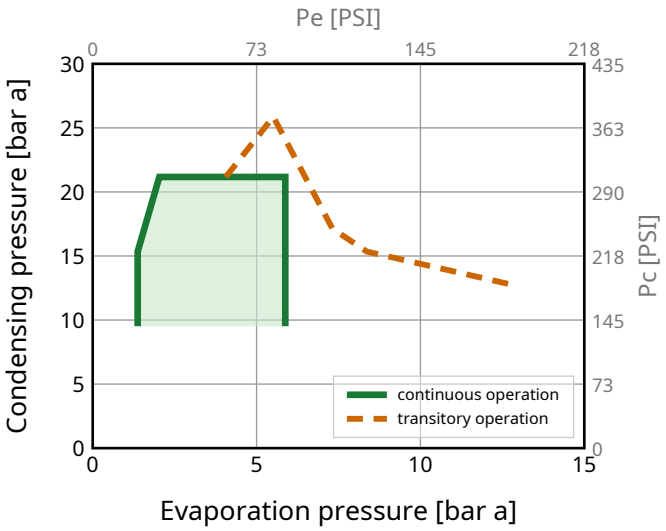

View full size

**Components**
**a4** DAS1 (PTC,6.3mm, T0377/L6 - S1) 103N0250
**e** run capacitor (5µF, 6.3mm) 117-7191
**b, d** cover + clamp + screws (5VA-compl.) 103N0600

**Alternative components**
**a4** ZAS1 (PTC,4.8mm, T0377/L6 - S1) 103N0252
**e** run capacitor (5µF, 4.8mm) 117-7190
**b, d** 100x cover + clamp + screws (5VA) 103N2060
**b, d** cover + clamp + screws (5VA) in bag 103N1060

## Operation Pressure Range



**Model**
**KLF6.6CND** Configuration 2

Sales code:
**106H2700**

## Standard Conditions

**R290**, 220 V/50 Hz, RSCR, 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 | **339** | 1158 | 292 | **1.59** | 5.42 | 214 | 1.25 | 3.45 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **252** | 860 | 217 | **1.22** | 4.17 | 206 | 1.23 | 3.16 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **188** | 643 | 162 | **1.25** | 4.28 | 150 | 1.05 | 2.16 | **EN12900 LBP** |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **598** | 2039 | 514 | **2.12** | 7.24 | 282 | 1.51 | 6.84 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **476** | 1626 | 410 | **1.76** | 6.00 | 271 | 1.47 | 6.06 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **527** | 1799 | 454 | **2.15** | 7.34 | 245 | 1.37 | 6.49 | **EN12900 MBP** |

## Performance Tables

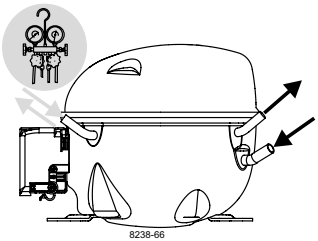
**R290**, 220 V/50 Hz, RSCR, fan 3m/s

**pc= 45/113 | RGT= 32/89.6 | 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] |
| -35 | -31 | **178** | 608 | 153 | **1.17** | 3.98 | 153 | 1.06 | 2.01 |
| -30 | -22 | **233** | 794 | 200 | **1.34** | 4.56 | 174 | 1.12 | 2.63 |
| -20 | -4 | **368** | 1256 | 316 | **1.73** | 5.91 | 213 | 1.25 | 4.19 |
| -10 | 14 | **548** | 1871 | 472 | **2.24** | 7.63 | 245 | 1.37 | 6.29 |
| 0 | 32 | **786** | 2681 | 676 | **2.90** | 9.88 | 271 | 1.47 | 9.14 |
| 7.2 | 45 | **999** | 3409 | 859 | **3.50** | 11.93 | 286 | 1.53 | 11.75 |

**pc= 55/131 | RGT= 32/89.6 | Tliq= 55/131 | °C/°F**

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **140** | 477 | 120 | **0.90** | 3.08 | 155 | 1.07 | 1.74 |
| -30 | -22 | **193** | 660 | 166 | **1.06** | 3.63 | 181 | 1.15 | 2.41 |
| -20 | -4 | **318** | 1085 | 273 | **1.38** | 4.72 | 230 | 1.31 | 4.00 |
| -10 | 14 | **476** | 1626 | 410 | **1.76** | 6.00 | 271 | 1.47 | 6.06 |
| 0 | 32 | **681** | 2325 | 586 | **2.23** | 7.62 | 305 | 1.61 | 8.79 |
| 7.2 | 45 | **864** | 2949 | 743 | **2.66** | 9.07 | 325 | 1.69 | 11.29 |



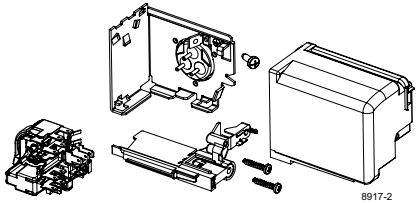

# KL Compressors

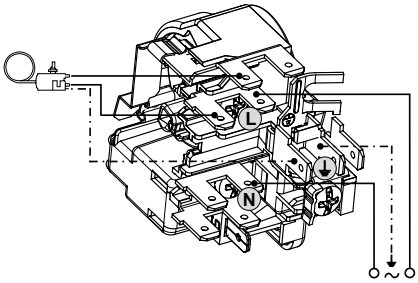
SECOP

Keep electrical equipment clear from oil, chemicals, and water

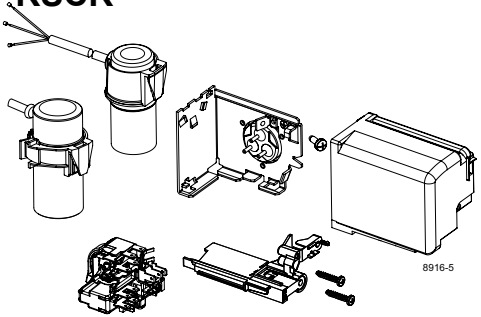
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

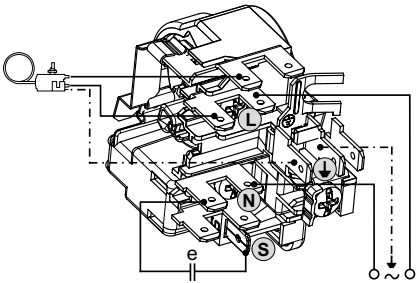
## RSIR



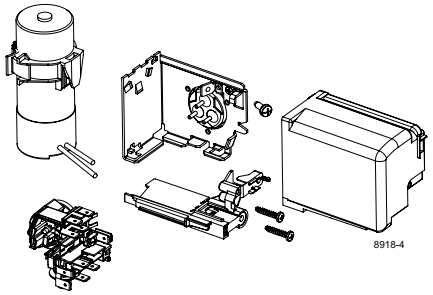



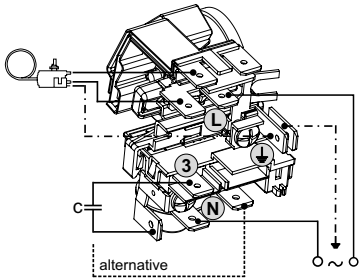

## RSCR

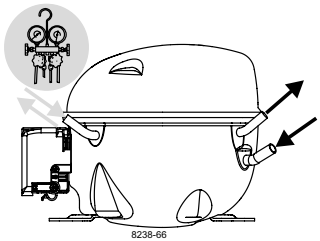



## CSIR






# KL Compressors

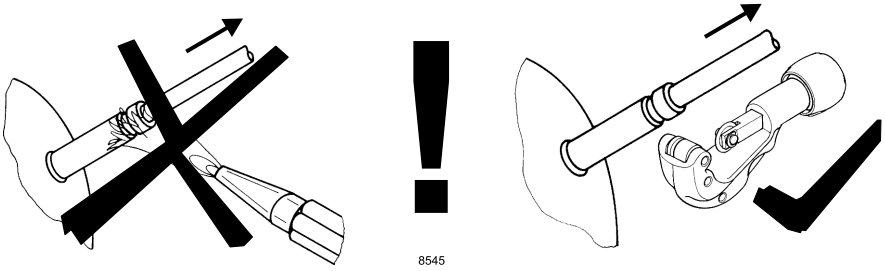
SECOP

Keep electrical equipment clear from oil, chemicals, and water

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

## Service/Repair – R290, R600a, R170, R1270, 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**