Single
Packs

# Single Pack NF7.3FX.2 115-127V 60Hz CSIR

Single pack code number: **195B4403**

| Position | Title | Code | Amount |
|---|---|---|---|
| 1 | Compressor NF7.3FX.2 | 105G5722 | 1 |
| 2 | Starting relay (overload protector MRP30AEN-6, T0772/06) | 117U4061 | 1 |
| 3 | Starting capacitor (280µF 125V, 6.3mm) | 117U5025 | 1 |
| 4 | Cord relief | 117U0349 | 2 |
| 5 | Cover | 117U1021 | 1 |
| 6 | Bolt joint for one compressor \| M6 \| ø16mm | 118-1917 | 1 |

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**Model**
**NF7.3FX.2**

Sales code:
**105G5722**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R134a / R513A** |
| Refr. charge - tech. limit | **400g / 14.11oz** |
| Weight | **10.00 kg / 22.05lbs** |
| Displacement | **7.27 cm3 / 0.44cu.in** |
| Compressors on pallet | **80** |

## General – Configurations With NF7.3FX.2

| – | **Conf. 1** | **Conf. 2** |
|---|---|---|
| Motor configuration | CSIR | CSIR |
| Power supply (nominal) | 115-127 V/60 Hz | 115-127 V/60 Hz |
| Number of phases | 1 | 1 |
| Voltage range | 95-135 V | 95-135 V |
| Approvals | UL, EAC | UL, EAC |
| Starting torque | HST | HST |
| Refrigerant | R134a | R513A |
| Application | LBP+MBP | LBP+MBP |
| Long interval pull down | OK | OK |

## Application Notes

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

**Model**
**NF7.3FX.2**

Sales code:
**105G5722**

## Compressor Design

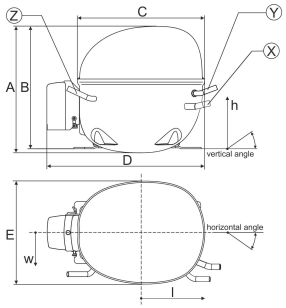
| | | | |
|---|---|---|---|
| Oil type | **POE** | Winding resistance main | **1.7 Ohm** |
| Oil viscosity | **32cSt** | Winding resistance aux | **6.2 Ohm** |
| Oil quantity | **268 / 9.06fl.oz** | Max. winding temp. | **125 °C** |
| Free gas volume comp. | **2,360 cm3 / 79.80fl.oz** | Max. discharge temp. | **130°C / 266°F** |
| Motor protection | **external** | | |

## Compressor Dimensions

**Housing**

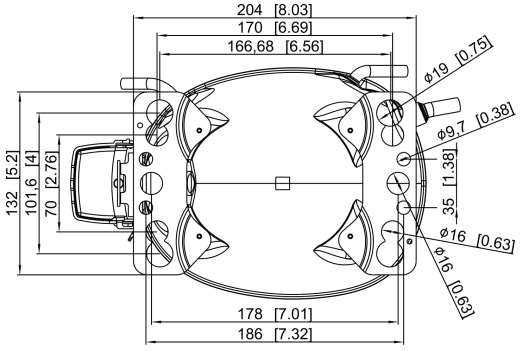
| | |
|---|---|
| A Height | **197mm / 7.76in** |
| B Height | **191mm / 7.52in** |
| C Length shell | **205mm / 8.07in** |
| D Length w. cover | **254mm / 10.00in** |
| E Width | **166mm / 6.54in** |

Find 3D Model here



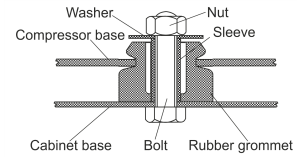

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 8.11–8.29 / 0.32–0.33in | øi 6.41–6.59 / 0.25–0.26in | øi 6.41–6.59 / 0.25–0.26in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 0° | 0° | 0° |
| Vertical angle ±2° | 15° | 35° | 155° |
| Position l/h/w [mm] | 125.5/75.5/78 / 4.94/2.97/3.07in | 133/102.5/54 / 5.24/4.04/2.13in | -107/93.5/72 / -4.21/3.68/2.83in |
| Straight tube l. [mm] | 12 / 0.47in | 12 / 0.47in | 12 / 0.47in |

## Mounting Accessories

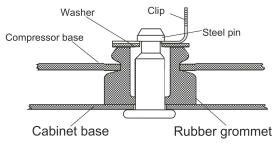



Dimensions in mm [in]

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**
**NF7.3FX.2** Configuration 1

Sales code:
**105G5722**

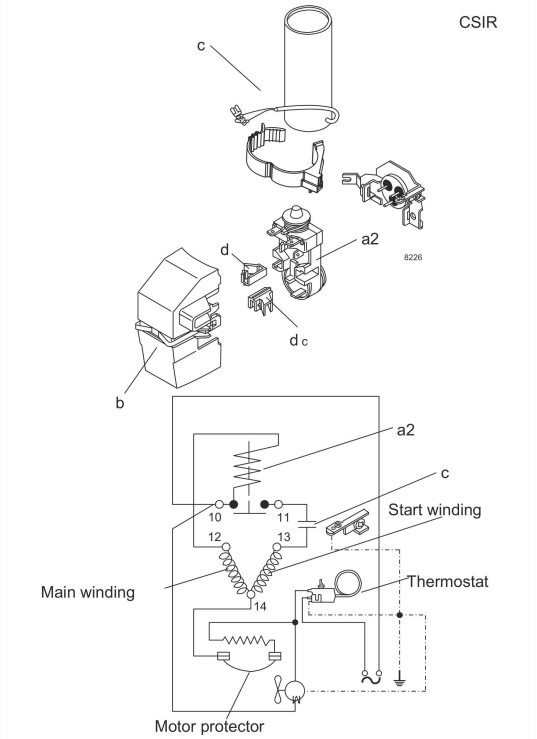
## Configuration

| | |
|---|---|
| Motor configuration | **CSIR** |
| Power supply (nominal) | **115-127 V/60 Hz 1~** |
| Refrigerant | **R134a** |
| Application | **LBP+MBP** |
| Voltage range | **95-135 V** |
| Starting torque | **HST** |
| Approvals | **UL, EAC** |
| Starting device type | **relay** |
| Run capacitor | **-/-** |
| Start capacitor | **280 µF** |

**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 1,5m/s

## Electrical Accessories / Wiring Diagram

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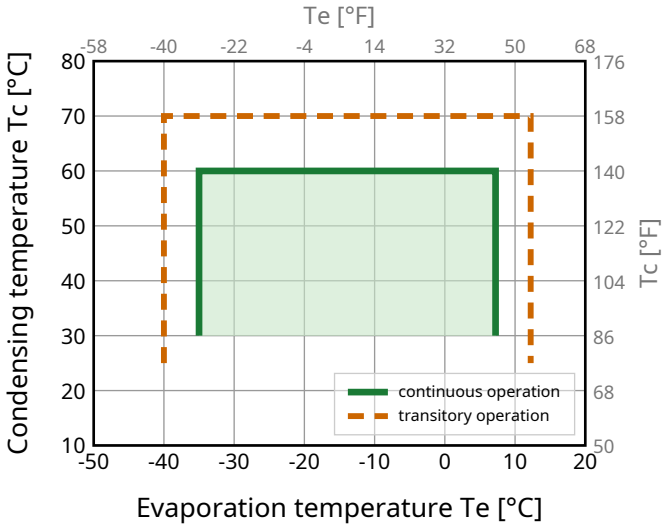
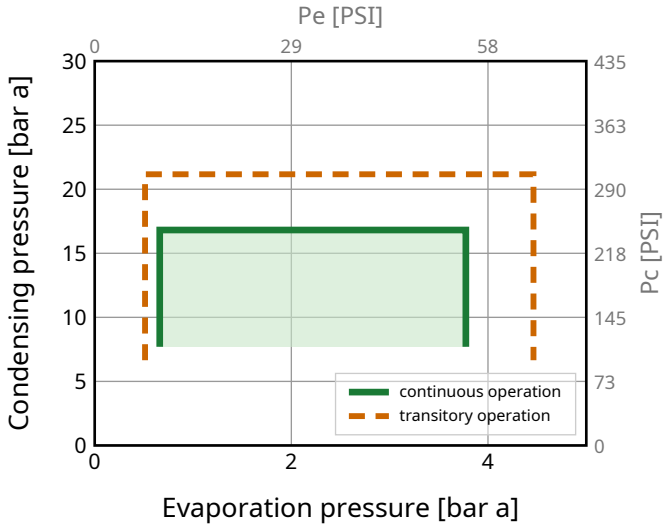
**Components**
**a2** relay (protector: TI MRP30AEN-6) 117U4061
**c** start capacitor (280µF) 117U5025
**b** plastic cover + clamp 117U1021
**d/dc** cord relief 117U0349

**Alternative components**
**b** assy. terminal board 6.3mm 117U1024

## Operation Pressure Range



**Model**

**NF7.3FX.2** Configuration 1

Sales code:

**105G5722**

## Standard Conditions

**R134a**, 115 V/60 Hz, CSIR, fan 1,5m/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 | **262** | 893 | 225 | **1.16** | 3.95 | 226 | 3.57 | 5.08 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **190** | 649 | 164 | **0.88** | 3.01 | 216 | 3.53 | 4.54 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **128** | 436 | 110 | **0.76** | 2.58 | 169 | 3.35 | 2.79 | **EN12900 LBP** |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **547** | 1867 | 471 | **1.70** | 5.80 | 322 | 4.11 | 11.91 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **426** | 1452 | 366 | **1.40** | 4.79 | 303 | 4.00 | 10.26 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **480** | 1638 | 413 | **1.66** | 5.67 | 289 | 3.90 | 11.19 | **EN12900 MBP** |

## Performance Tables

**R134a**, 115 V/60 Hz, CSIR, fan 1,5m/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 | **117** | 400 | 101 | **0.71** | 2.43 | 164 | 3.34 | 2.52 |
| -30 | -22 | **170** | 581 | 147 | **0.89** | 3.03 | 192 | 3.41 | 3.68 |
| -20 | -4 | **308** | 1052 | 265 | **1.28** | 4.35 | 242 | 3.62 | 6.69 |
| -10 | 14 | **497** | 1696 | 428 | **1.72** | 5.87 | 289 | 3.90 | 10.86 |
| 0 | 32 | **747** | 2549 | 643 | **2.20** | 7.49 | 340 | 4.25 | 16.49 |
| 7.2 | 45 | **971** | 3313 | 835 | **2.53** | 8.64 | 383 | 4.54 | 21.64 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **91** | 312 | 79 | **0.61** | 2.07 | 151 | 3.31 | 2.17 |
| -30 | -22 | **136** | 464 | 117 | **0.74** | 2.51 | 184 | 3.41 | 3.23 |
| -20 | -4 | **256** | 873 | 220 | **1.04** | 3.56 | 246 | 3.67 | 6.12 |
| -10 | 14 | **426** | 1452 | 366 | **1.40** | 4.79 | 303 | 4.00 | 10.26 |
| 0 | 32 | **656** | 2237 | 564 | **1.80** | 6.14 | 364 | 4.40 | 15.98 |
| 7.2 | 45 | **864** | 2949 | 743 | **2.09** | 7.13 | 414 | 4.73 | 21.31 |

**Model**
**NF7.3FX.2** Configuration 2

Sales code:
**105G5722**

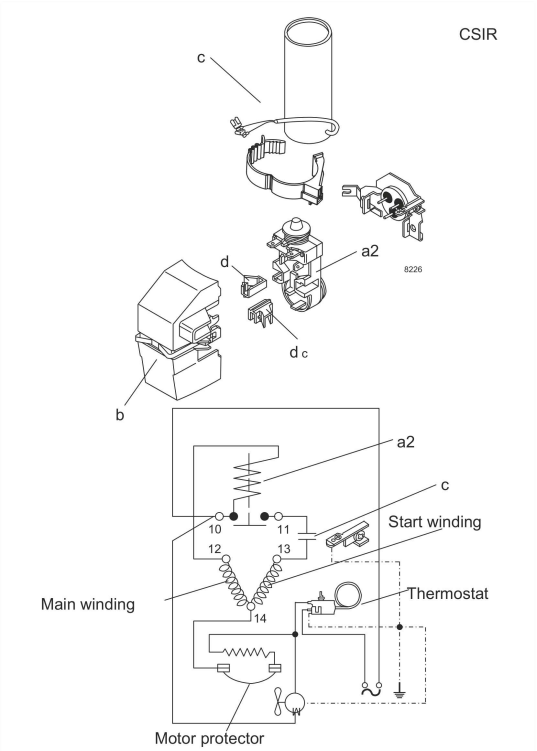
## Configuration

| | |
|---|---|
| Motor configuration | **CSIR** |
| Power supply (nominal) | **115-127 V/60 Hz 1~** |
| Refrigerant | **R513A** |
| Application | **LBP+MBP** |
| Voltage range | **95-135 V** |
| Starting torque | **HST** |
| Approvals | **UL, EAC** |
| Starting device type | **relay** |
| Run capacitor | **-/-** |
| Start capacitor | **280 µF** |

**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 1,5m/s

## Electrical Accessories / Wiring Diagram

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**Components**
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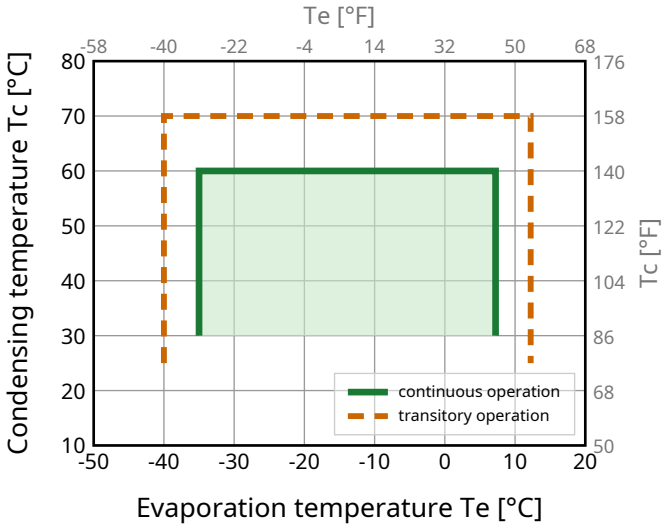
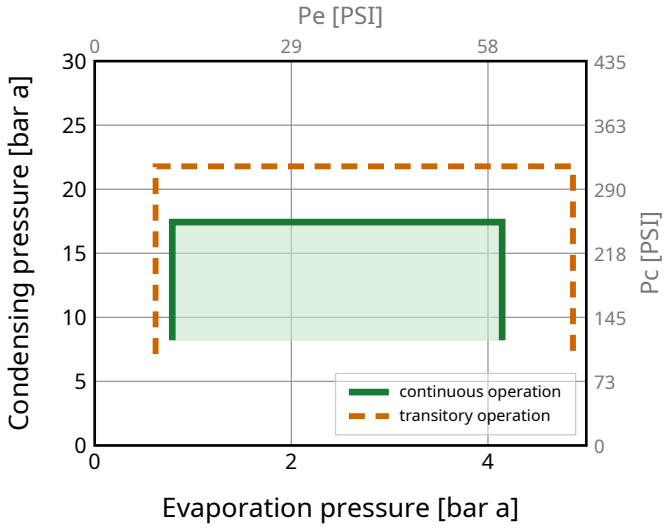
**c** start capacitor (280µF) 117U5025
**b** plastic cover + clamp 117U1021
**d/dc** cord relief 117U0349

**Alternative components**
**b** assy. terminal board 6.3mm 117U1024

## Operation Pressure Range



**Model**

**NF7.3FX.2** Configuration 2

Sales code:

**105G5722**

## Standard Conditions

**R513A**, 115 V/60 Hz, CSIR, fan 1,5m/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 | **288** | 984 | 248 | **1.18** | 4.03 | 244 | 3.88 | 6.31 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **205** | 699 | 176 | **0.88** | 2.99 | 234 | 3.81 | 5.67 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **142** | 485 | 122 | **0.78** | 2.65 | 183 | 3.68 | 3.57 | **EN12900 LBP** |
| -6.7 20 | 54.4 129.9 | 35 95 | 46.1 115 | **574** | 1957 | 493 | **1.69** | 5.75 | 340 | 4.40 | 14.30 | **ASHRAE MBP** |
| -10 14 | 55 131 | 32 89.6 | 55 131 | **441** | 1506 | 380 | **1.37** | 4.67 | 322 | 4.30 | 12.38 | **CECOMAF MBP** |
| -10 14 | 45 113 | 20 68 | 45 113 | **499** | 1703 | 429 | **1.63** | 5.57 | 306 | 4.20 | 13.52 | **EN12900 MBP** |

## Performance Tables

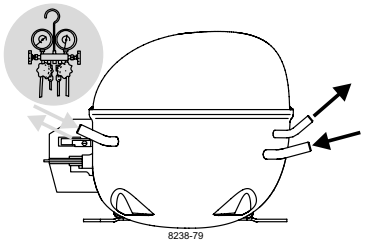
**R513A**, 115 V/60 Hz, CSIR, fan 1,5m/s

**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 | **132** | 449 | 113 | **0.74** | 2.52 | 178 | 3.62 | 3.24 |
| -30 | -22 | **188** | 641 | 162 | **0.91** | 3.09 | 208 | 3.76 | 4.64 |
| -20 | -4 | **331** | 1130 | 285 | **1.28** | 4.37 | 259 | 3.99 | 8.22 |
| -10 | 14 | **524** | 1787 | 450 | **1.71** | 5.84 | 306 | 4.20 | 13.11 |
| 0 | 32 | **775** | 2644 | 666 | **2.17** | 7.41 | 357 | 4.47 | 19.63 |
| 7.2 | 45 | **998** | 3405 | 858 | **2.50** | 8.52 | 400 | 4.74 | 25.57 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **103** | 350 | 88 | **0.62** | 2.12 | 166 | 3.39 | 2.83 |
| -30 | -22 | **149** | 508 | 128 | **0.74** | 2.52 | 201 | 3.62 | 4.11 |
| -20 | -4 | **271** | 926 | 233 | **1.03** | 3.50 | 264 | 3.99 | 7.54 |
| -10 | 14 | **441** | 1506 | 380 | **1.37** | 4.67 | 322 | 4.30 | 12.38 |
| 0 | 32 | **669** | 2282 | 575 | **1.75** | 5.97 | 382 | 4.65 | 19.01 |
| 7.2 | 45 | **874** | 2980 | 751 | **2.02** | 6.91 | 431 | 4.95 | 25.16 |



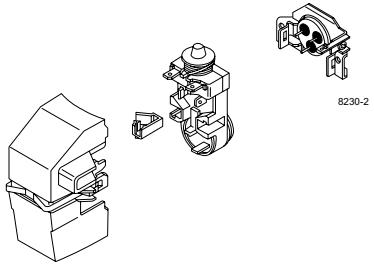

# NF Compressors

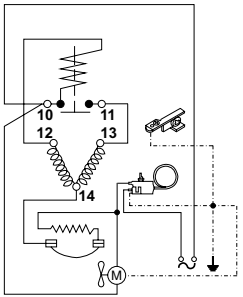
SECOP

Keep electrical equipment clear from oil, chemicals, and water

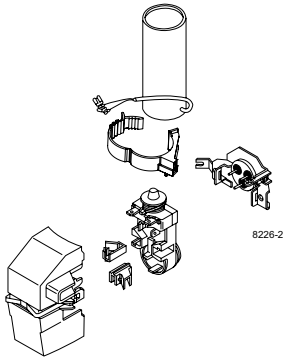
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

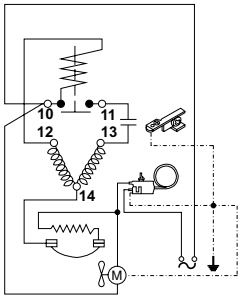
## RSIR



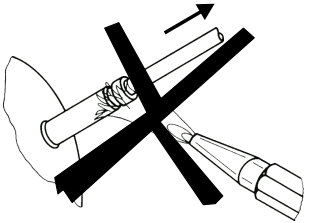

## CSIR

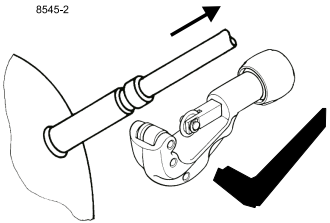


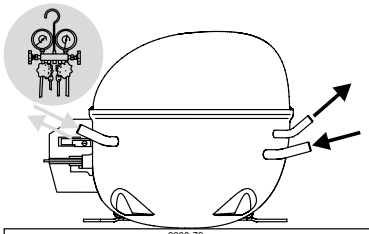




## Service/Repair – R1234yf

(applies to all flammable refrigerants)








# NF Compressors

SECOP

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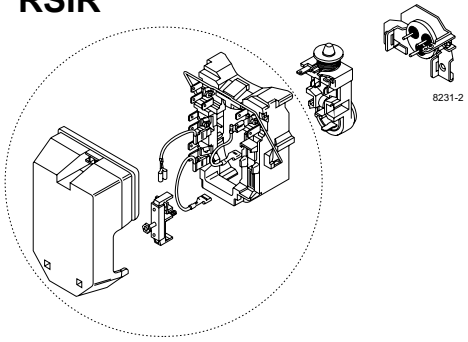
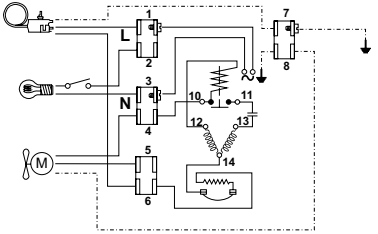
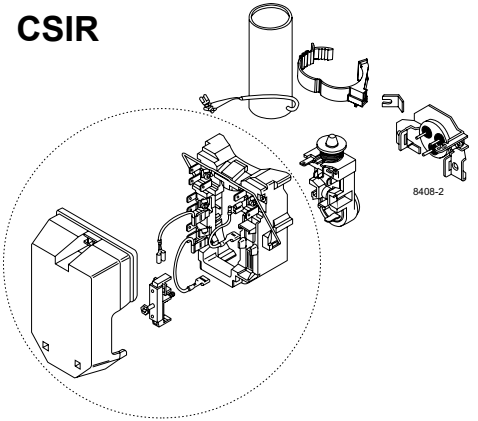
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

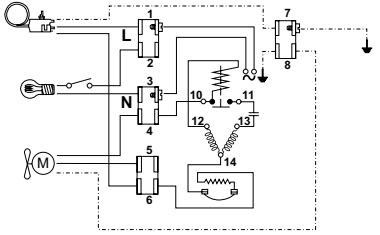
## RSIR



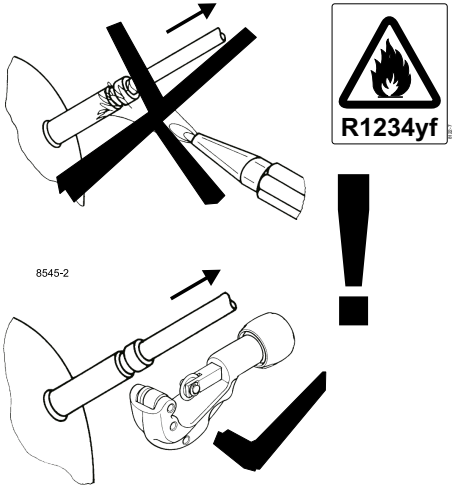

## CSIR




## 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**