Single
Packs

# Single Pack HTK70AA 220-240V 50Hz RSIR

Single pack code number: **195B4530**

| Position | Title | Code | Amount |
|---|---|---|---|
| 1 | Compressor HTK70AA | 16125300 | 1 |
| 2 | Terminal board 4.8mm | 15163800 | 1 |
| 3 | Screw for cable clamp | 10636000 | 1 |
| 4 | Screw for cable clamp | 10636200 | 1 |
| 5 | Cable clamp | 11341000 | 1 |
| 6 | Cover | 10636401 | 1 |
| 7 | Earth screw | 10641201 | 1 |
| 8 | Clip | 10633900 | 4 |
| 9 | Steel pin | 10634100 | 4 |
| 10 | Washer | 10634300 | 4 |
| 11 | Rubber grommet 16mm | 11322600 | 4 |

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**Model**
**HTK70AA**

Sales code:
**16125300**

## Compressor Data

| | |
|---|---|
| Refrigerant(s) | **R600a** |
| Refr. charge - tech. limit | **150g / 5.29oz** |
| Weight | **7.90 kg / 17.42lbs** |
| Displacement | **6.60 cm3 / 0.40cu.in** |
| Compressors on pallet | **100** |

## General – Configurations With HTK70AA

| – | **Conf. 1** | **Conf. 2** |
|---|---|---|
| Motor configuration | RSIR | RSCR |
| Power supply (nominal) | 220-240 V/50 Hz | 220-240 V/50 Hz |
| Number of phases | 1 | 1 |
| Voltage range | 187-264 V | 187-264 V |
| Approvals | VDE | VDE |
| Starting torque | LST | LST |
| Refrigerant | R600a | R600a |
| Application | LBP | LBP |

## Application Notes

- Various options of connectors are possible - please contact SECOP-Sales.
- Provision for PE Grounding is located at the PE Stamp on the compressor
- Housing with dip-tray fixture (omega bracket).
- Various options of connectors are possible - please contact SECOP-Sales.

**Model**
**HTK70AA**

Sales code:
**16125300**

## Compressor Design

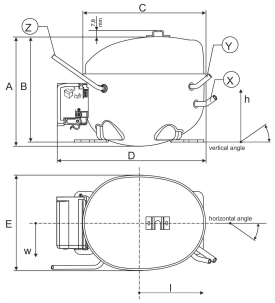
| | | | |
|---|---|---|---|
| Oil type | **Mineral** | Winding resistance main | **34 Ohm** |
| Oil viscosity | **5cSt** | Winding resistance aux | **15.5 Ohm** |
| Oil quantity | **165 / 5.58fl.oz** | Max. winding temp. | **130 °C** |
| Free gas volume comp. | **1,500 cm3 / 50.72fl.oz** | Max. discharge temp. | **130°C / 266°F** |
| Motor protection | **external** | | |

## Compressor Dimensions

**Housing**

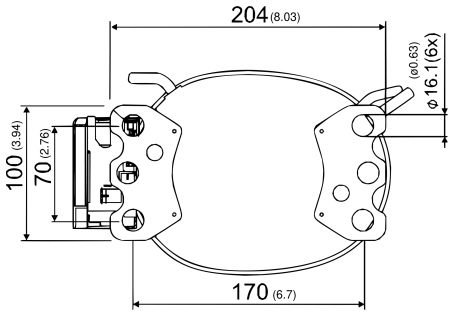
| | |
|---|---|
| A Height | **166mm / 6.54in** |
| B Height | **159mm / 6.26in** |
| C Length shell | **194mm / 7.64in** |
| D Length w. cover | **238mm / 9.37in** |
| E Width | **151mm / 5.94in** |

Find 3D Model here



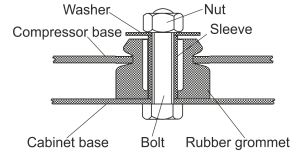

| Connectors | Suction X | Discharge Y | Process Z |
|---|---|---|---|
| Diameter [mm] | øi 6.1–6.2 / 0.24–0.24in | øi 5.1–5.2 / 0.20–0.20in | øi 5.92–6.08 / 0.23–0.24in |
| Material | CU | CU | CU |
| Horizontal angle ±2° | 45° | 13° | 0° |
| Vertical angle ±2° | 30° | 40° | 145° |
| Position l/h/w [mm] | 120/71.5/62 / 4.72/2.81/2.44in | 112/105.5/62 / 4.41/4.15/2.44in | -140/136/70 / -5.51/5.35/2.76in |
| Straight tube l. [mm] | 13.5 / 0.53in | 13.5 / 0.53in | 75 / 2.95in |

## Mounting Accessories

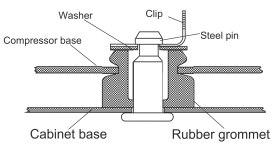



Dimensions in mm [in]

Bolt joint




Snap-on




| | one comp. | multi pack |
|---|---|---|
| '4ZN' with rubber grommet | – | 772N |
| '4ZN' with rubber grommet and sleeve for M6 | – | 768N |
| Bolt joint kit | – | 4ZN + 118-1917 (18) |
| '4ZN' with Snap on kit | – | 776N |

**Model**
**HTK70AA** Configuration 1

Sales code:
**16125300**

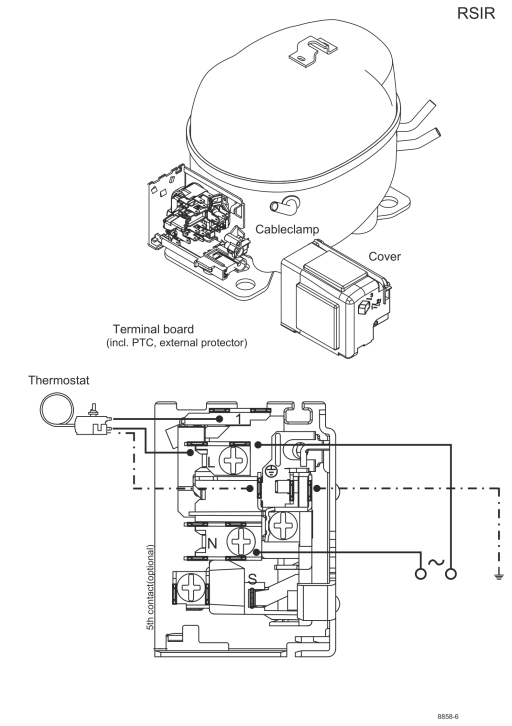
## Configuration

| | |
|---|---|
| Motor configuration | **RSIR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R600a** |
| Application | **LBP** |
| Voltage range | **187-264 V** |
| Starting torque | **LST** |
| Approvals | **VDE** |
| Starting device type | **PTC** |
| Run capacitor | **-/-** |
| Start capacitor | **-/-** |
| RLA (rated load amps / 1s/ U(N)) | **-/-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**
static

## Electrical Accessories / Wiring Diagram

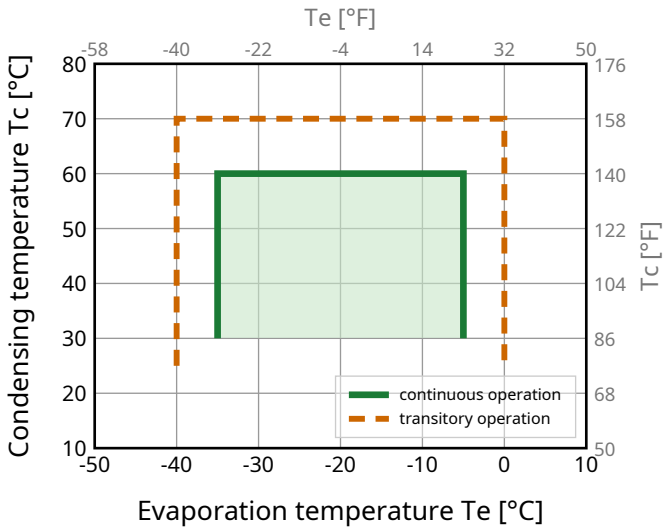


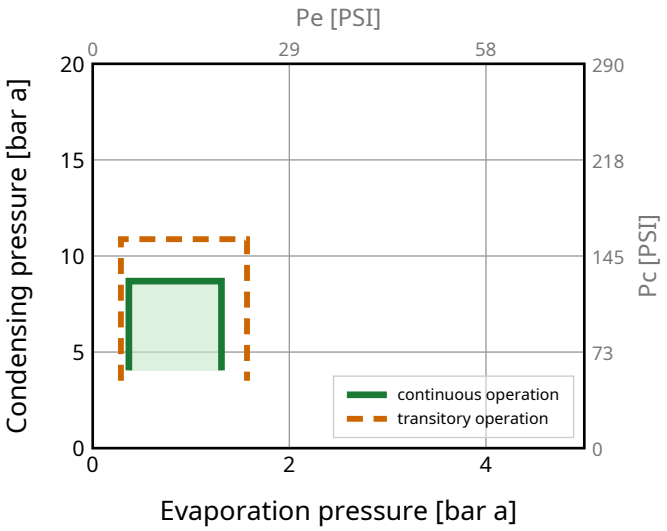

View full size

**Components**
. terminal board (PTC, 4.8mm) 15163800
**b** cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200
. screw uni en iso 4757 10641201

**Alternative components**
. terminal board (PTC, 6.3mm) 15162300

## Operation Pressure Range



**Model**
**HTK70AA** Configuration 1

Sales code:
**16125300**

## Standard Conditions

**R600a**, 220 V/50 Hz, RSIR, static

| 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 | **117** | 399 | 101 | **1.61** | 5.49 | 73 | 0.42 | 1.26 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **87** | 296 | 75 | **1.24** | 4.23 | 70 | 0.40 | 1.13 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **57** | 194 | 49 | **1.13** | 3.84 | 50 | 0.34 | 0.69 | **EN12900 LBP** |
| -23.3 -10 | 48.8 119.8 | 4.4 39.9 | 48.8 119.8 | **94** | 321 | 81 | **1.35** | 4.62 | 70 | 0.41 | 1.37 | **ARI540 LBP** |
| -23.3 -10 | 40.6 105.1 | 32.2 90 | 32.2 90 | **122** | 416 | 105 | **1.82** | 6.22 | 67 | 0.40 | 1.31 | **AHAM LBP** |
| -35 -31 | 45 113 | 32 89.6 | 45 113 | **54** | 184 | 46 | **1.07** | 3.65 | 50 | 0.34 | 0.64 | **opt LBP** |

## Performance Tables

**R600a**, 220 V/50 Hz, RSIR, static

**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 | **54** | 184 | 46 | **1.07** | 3.65 | 50 | 0.34 | 0.64 |
| -30 | -22 | **73** | 248 | 63 | **1.25** | 4.25 | 58 | 0.37 | 0.87 |
| -25 | -13 | **99** | 336 | 85 | **1.49** | 5.10 | 66 | 0.40 | 1.17 |
| -20 | -4 | **130** | 443 | 112 | **1.78** | 6.06 | 73 | 0.43 | 1.55 |
| -15 | 5 | **165** | 564 | 142 | **2.08** | 7.08 | 80 | 0.46 | 1.98 |
| -10 | 14 | **204** | 695 | 175 | **2.37** | 8.10 | 86 | 0.49 | 2.44 |
| -5 | 23 | **243** | 830 | 209 | **2.66** | 9.09 | 91 | 0.52 | 2.92 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **44** | 149 | 37 | **0.89** | 3.02 | 49 | 0.33 | 0.57 |
| -30 | -22 | **62** | 212 | 53 | **1.04** | 3.53 | 60 | 0.37 | 0.81 |
| -25 | -13 | **87** | 296 | 75 | **1.24** | 4.23 | 70 | 0.40 | 1.13 |
| -20 | -4 | **116** | 396 | 100 | **1.47** | 5.00 | 79 | 0.44 | 1.52 |
| -15 | 5 | **149** | 508 | 128 | **1.70** | 5.78 | 88 | 0.48 | 1.95 |
| -10 | 14 | **184** | 627 | 158 | **1.92** | 6.55 | 96 | 0.53 | 2.41 |
| -5 | 23 | **219** | 748 | 188 | **2.13** | 7.28 | 103 | 0.57 | 2.88 |

**Model**
**HTK70AA** Configuration 2

Sales code:
**16125300**

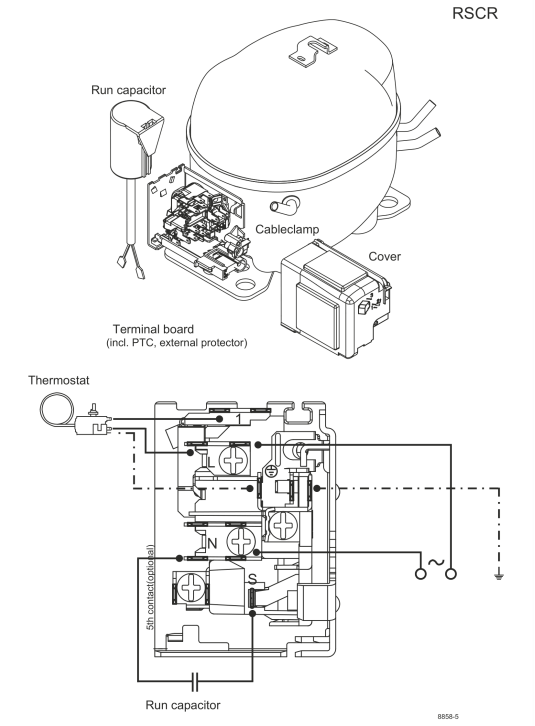
## Configuration

| | |
|---|---|
| Motor configuration | **RSCR** |
| Power supply (nominal) | **220-240 V/50 Hz 1~** |
| Refrigerant | **R600a** |
| Application | **LBP** |
| Voltage range | **187-264 V** |
| Starting torque | **LST** |
| Approvals | **VDE** |
| Starting device type | **PTC** |
| Run capacitor | **3/4 µF** |
| Start capacitor | **-/-** |
| RLA (rated load amps / 1s/ U(N)) | **-/-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**
static

## Electrical Accessories / Wiring Diagram

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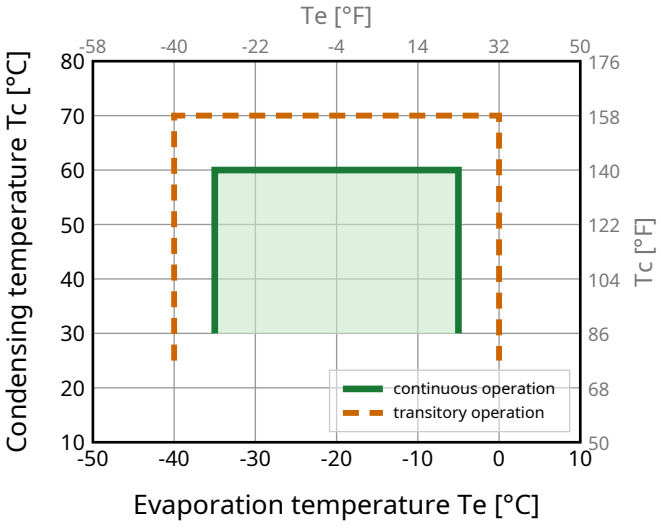
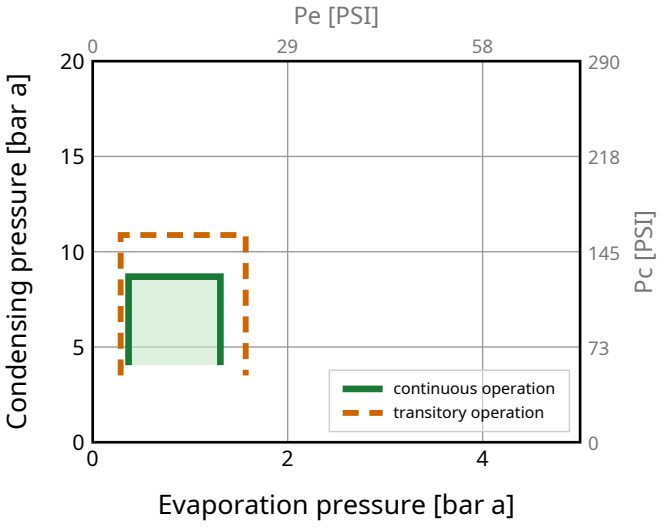
**Components**
. terminal board (PTC, 4.8mm) 15163800
. run capacitor (3µF, 4.8mm) 10692902
**b** cover terminal board 10636401
. cable clamp 16058100
. screw - uni6954 10636000
. screw - uni6954 10636200

**Alternative components**
. terminal board (PTC, 6.3mm) 15162300
. run capacitor (4µF, 6.3mm) 10186801

## Operation Pressure Range



**Model**

**HTK70AA** Configuration 2

Sales code:

**16125300**

## Standard Conditions

**R600a**, 220 V/50 Hz, RSCR, static

| 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 | **117** | 398 | 100 | **1.66** | 5.67 | 70 | 0.31 | 1.25 | **ASHRAE LBP** |
| -25 -13 | 55 131 | 32 89.6 | 55 131 | **87** | 295 | 74 | **1.28** | 4.38 | 68 | 0.30 | 1.13 | **CECOMAF LBP** |
| -35 -31 | 40 104 | 20 68 | 40 104 | **57** | 194 | 49 | **1.18** | 4.03 | 48 | 0.26 | 0.69 | **EN12900 LBP** |
| -23.3 -10 | 48.8 119.8 | 4.4 39.9 | 48.8 119.8 | **94** | 321 | 81 | **1.40** | 4.78 | 67 | 0.31 | 1.37 | **ARI540 LBP** |
| -23.3 -10 | 40.6 105.1 | 32.2 90 | 32.2 90 | **122** | 416 | 105 | **1.91** | 6.50 | 64 | 0.30 | 1.31 | **AHAM LBP** |
| -35 -31 | 45 113 | 32 89.6 | 45 113 | **54** | 184 | 46 | **1.12** | 3.83 | 48 | 0.25 | 0.64 | **opt LBP** |

## Performance Tables

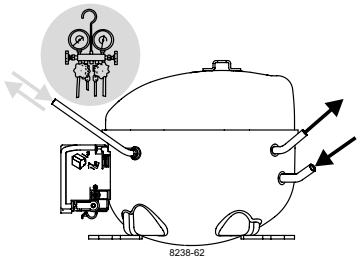
**R600a**, 220 V/50 Hz, RSCR, static

**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 | **54** | 184 | 46 | **1.12** | 3.83 | 48 | 0.25 | 0.64 |
| -30 | -22 | **73** | 248 | 63 | **1.30** | 4.44 | 56 | 0.27 | 0.86 |
| -25 | -13 | **98** | 336 | 85 | **1.56** | 5.31 | 63 | 0.30 | 1.17 |
| -20 | -4 | **130** | 443 | 112 | **1.84** | 6.29 | 70 | 0.32 | 1.55 |
| -15 | 5 | **165** | 564 | 142 | **2.14** | 7.32 | 77 | 0.35 | 1.97 |
| -10 | 14 | **203** | 694 | 175 | **2.44** | 8.33 | 83 | 0.37 | 2.44 |
| -5 | 23 | **243** | 829 | 209 | **2.73** | 9.30 | 89 | 0.40 | 2.92 |

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

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| -35 | -31 | **44** | 149 | 37 | **0.91** | 3.12 | 48 | 0.25 | 0.57 |
| -30 | -22 | **62** | 212 | 53 | **1.07** | 3.66 | 58 | 0.28 | 0.81 |
| -25 | -13 | **87** | 295 | 74 | **1.28** | 4.38 | 68 | 0.30 | 1.13 |
| -20 | -4 | **116** | 396 | 100 | **1.51** | 5.16 | 77 | 0.34 | 1.51 |
| -15 | 5 | **149** | 508 | 128 | **1.74** | 5.95 | 85 | 0.37 | 1.95 |
| -10 | 14 | **184** | 626 | 158 | **1.97** | 6.71 | 93 | 0.40 | 2.41 |
| -5 | 23 | **219** | 747 | 188 | **2.17** | 7.42 | 101 | 0.43 | 2.88 |



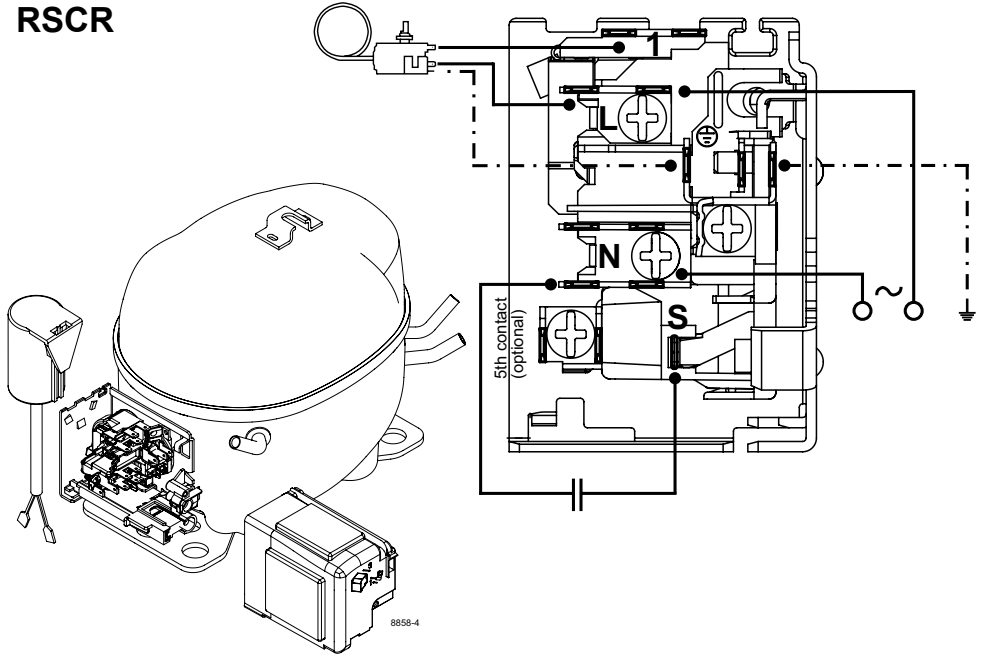

# K-Series Compressors
# GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

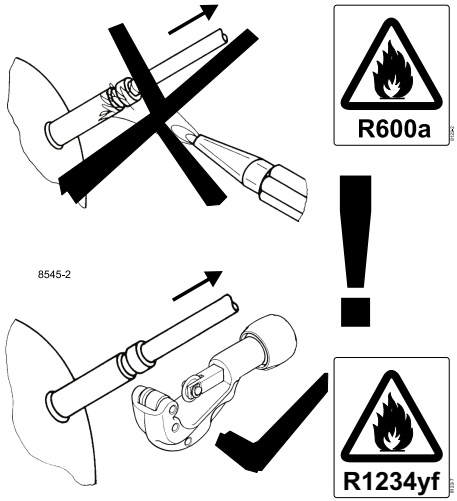
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

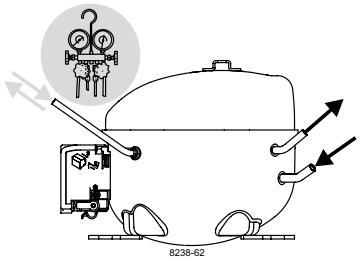
## RSCR




## Service/Repair – R600a, R1234yf

(applies to all flammable refrigerants)





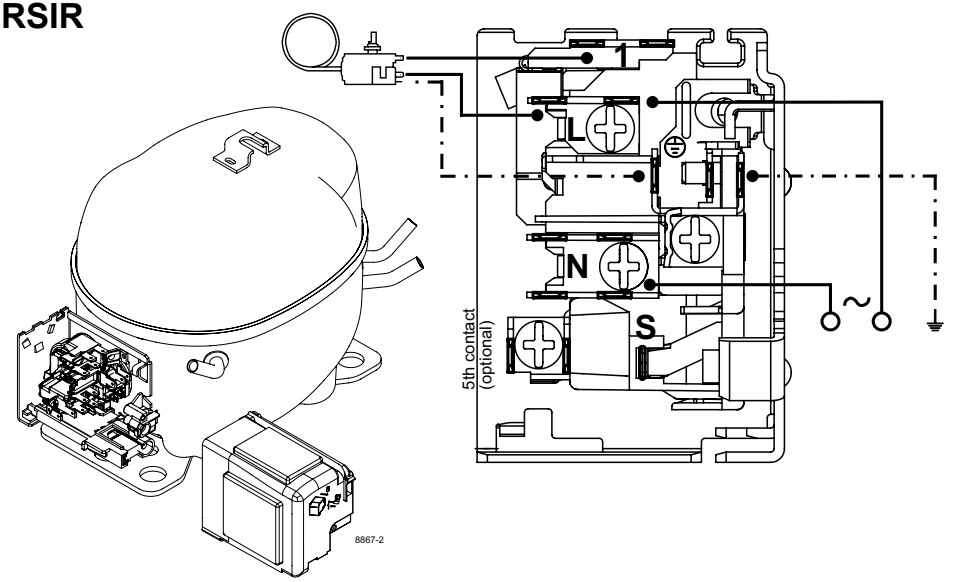

# K-Series Compressors
# GTK, HKK, HMK, HTK, HXK, HZK

SECOP

Keep electrical equipment clear from oil, chemicals, and water

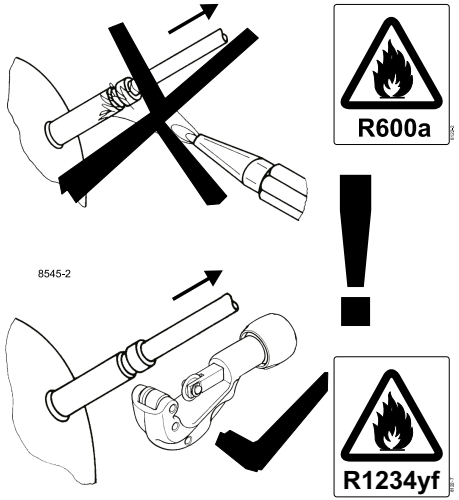
When operated with a flammable refrigerant, only spark-proof starting equipment is allowed.

## RSIR




## Service/Repair – R600a, 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**