

HXK80AT KAPPA Tropical Compressor Superior Efficiency R600a 200-240V 50Hz

General

| | |
|-----------------------|---------------------------|
| Code number | CDO00122 |
| Approvals | EN 60335-2-34 w. Annex AA |
| Compressors on pallet | 100 |

Application

| Application | LBP | | |
|--|-----|------------|----|
| Frequency | Hz | 50 | 60 |
| Evaporating temperature | °C | -35 to -10 | — |
| Voltage range | V | 170 to 264 | — |
| Max. condensing temperature continuous (short) | °C | 65 (70) | — |
| Max. winding temperature continuous (short) | °C | 130 (130) | — |

Cooling requirements

| Frequency | Hz | 50 | | | 60 | | |
|-------------------------|----|-----|-----|-----|-----|-----|-----|
| Application | | LBP | MBP | HBP | LBP | MBP | HBP |
| 32°C | | S | — | — | — | — | — |
| 38°C | | S | — | — | — | — | — |
| 43°C | | S | — | — | — | — | — |
| Remarks on application: | | | | | | | |

Motor

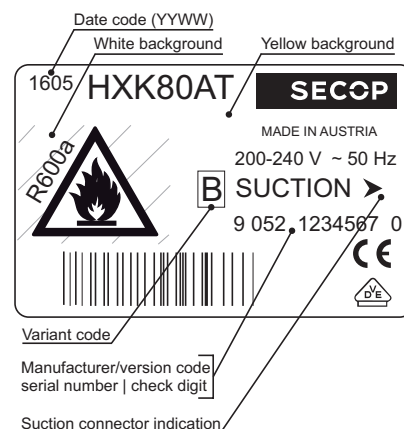
| Motor type | RSCR/RSIR | | |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | — | 3.8 |
| Cut in Current, HST LST | A | — | 12.8 |
| Resistance, main start winding (25°C) | Ω | 24.8 | 14.1 |

Design

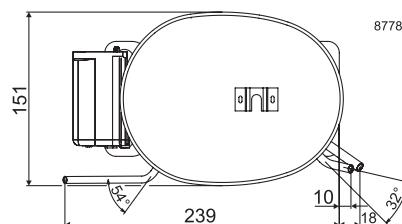
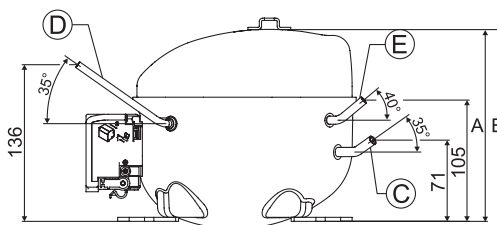
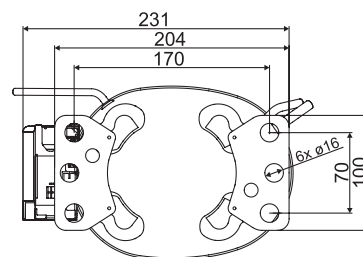
| | | |
|-------------------------------------|-----------------|---------------|
| Displacement | cm ³ | 8.10 |
| Oil quantity (type) | cm ³ | 165 (mineral) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 1620 |
| Weight without electrical equipment | kg | 8.1 |

Dimensions

| | | | |
|----------------------|--------------------------|-------------------------------|------------|
| Height | mm | A | 167.0 |
| | | B | 173.5 |
| Suction connector | location/I.D. mm angle | C | 6.15 35° |
| | material comment | Cu-plated steel Rubber plug | |
| Process connector | location/O.D. mm angle | D | 6.00 35° |
| | material comment | Copper Rubber plug | |
| Discharge connector | location/I.D. mm angle | E | 5.15 40° |
| | material comment | Cu-plated steel Rubber plug | |
| Oil cooler connector | location/I.D. mm angle | F | — |
| | material comment | — | |
| Connector tolerance | I.D. mm | ±0.05 | |
| Remarks: | | | |



- S = Static cooling normally sufficient
- O = Oil cooling
- F₁ = Fan cooling 1.5 m/s (compressor compartment temperature equal to ambient temperature)
- F₂ = Fan cooling 3.0 m/s necessary
- SG = Suction gas cooling normally sufficient
- = not applicable in this area



EN 12900 Household

200V, 50Hz, PTC consumption incl., static cooling

| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W | | | 56.5 | 78.8 | 105 | 115 | 135 | 171 | 211 | | | | | | | | |
| Power cons. in W | | | 56.9 | 68.9 | 80.2 | 84 | 91.6 | 104 | 117 | | | | | | | | |
| Current cons. in A | | | 0.27 | 0.33 | 0.38 | 0.40 | 0.44 | 0.50 | 0.56 | | | | | | | | |
| COP in W/W | | | 0.99 | 1.14 | 1.31 | 1.37 | 1.48 | 1.64 | 1.80 | | | | | | | | |

ASHRAE LBP

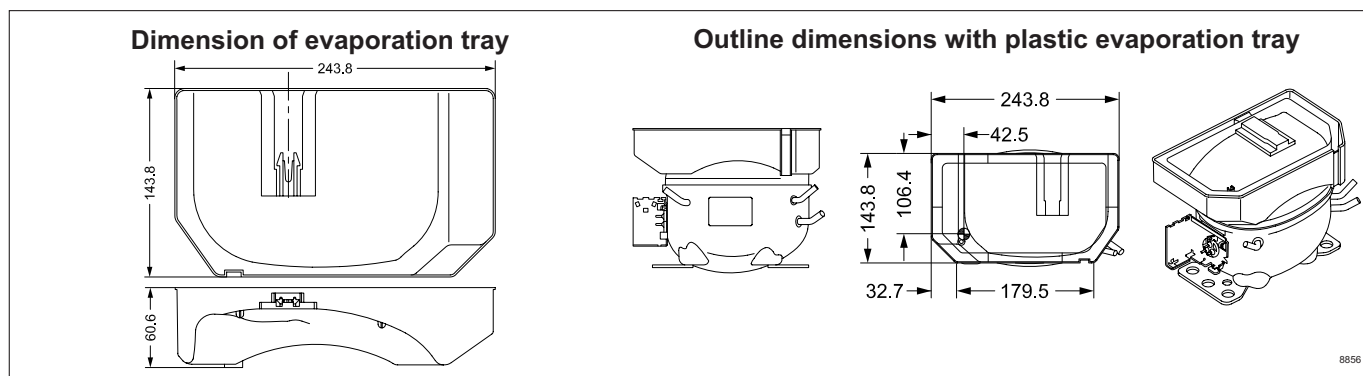
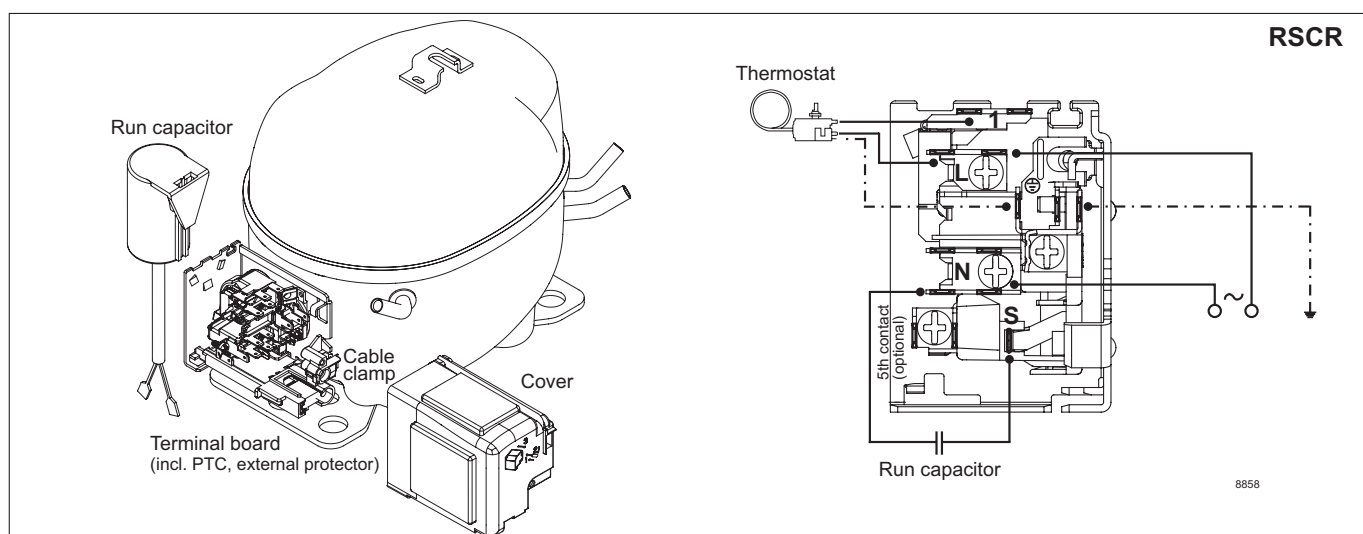
200V, 50Hz, PTC consumption incl., static cooling

| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W | | | 70.2 | 96.8 | 128 | 140 | 165 | 208 | 258 | | | | | | | | |
| Power cons. in W | | | 57.2 | 68.9 | 80 | 83.8 | 91.2 | 103 | 116 | | | | | | | | |
| Current cons. in A | | | 0.28 | 0.33 | 0.38 | 0.40 | 0.44 | 0.50 | 0.56 | | | | | | | | |
| COP in W/W | | | 1.23 | 1.41 | 1.60 | 1.67 | 1.81 | 2.02 | 2.21 | | | | | | | | |

ASHRAE LBP

200V, 50Hz, RC 4 µF, PTC consumption incl., static cooling

| Evap. temp. in °C | -45 | -40 | -35 | -30 | -25 | -23.3 | -20 | -15 | -10 | -6.7 | -5 | 0 | 5 | 7.2 | 10 | 15 | 20 |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| Capacity in W | | | 70.2 | 96.8 | 128 | 140 | 165 | 208 | 258 | | | | | | | | |
| Power cons. in W | | | 56 | 66.8 | 76.7 | 79.9 | 86.2 | 96 | 107 | | | | | | | | |
| Current cons. in A | | | 0.27 | 0.32 | 0.37 | 0.38 | 0.42 | 0.47 | 0.51 | | | | | | | | |
| COP in W/W | | | 1.25 | 1.45 | 1.67 | 1.75 | 1.91 | 2.17 | 2.42 | | | | | | | | |



| Accessories for HXK80AT | | Code number | Test conditions | EN 12900 Household | ASHRAE LBP |
|---|-------------------------|-------------|---------------------------------------|--------------------|------------|
| Run capacitor (optional) | 6.3 mm spade connectors | 4 µF | Condensing temperature | 55°C | 54.4°C |
| Terminal board (incl. PTC and external protector) | 6.3 mm spade connectors | DAF5 | Ambient temperature | 32°C | 32°C |
| Motor protector | AE 18 FU x | F5 | Suction gas temperature | 32°C | 32°C |
| Cable clamp (screws not included) | | 11341000 | Liquid temperature | no subcooling | 32°C |
| Cover | | 15759500 | | | |
| Evaporation tray (optional) | | 11318802 | | | |
| All-in-one equipment, e.g. 4ZN | | Code number | | | |
| Cover / cable clamp + screws / earthing screw | | 16168000 | Mounting accessories | | |
| | | | on request, various options available | | |
| | | | Code number | | |

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