

HXK87AT KAPPA Tropical Compressor Superior Efficiency R600a 200-240V 50Hz, 208-230V 60Hz

General

| | |
|-----------------------|---------------------------|
| Code number | CDO00136 |
| 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 | -35 to -10 |
| Voltage range | V | 170 to 264 | 198 to 253 |
| Max. condensing temperature continuous (short) | °C | 65 (70) | 65 (70) |
| Max. winding temperature continuous (short) | °C | 120 (130) | 120 (130) |

Cooling requirements

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

Motor

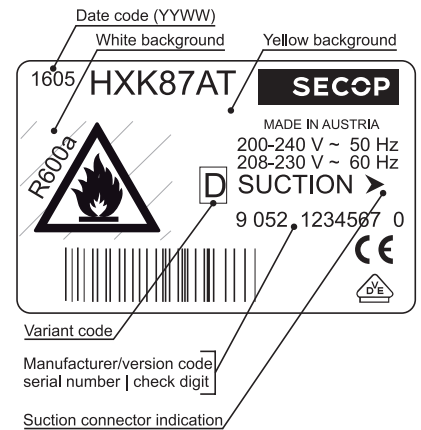
| Motor type | RSCR/RSIR | | |
|---|-----------|------|------|
| LRA (rated after 4 sec. UL984), HST LST | A | - | 6.6 |
| Cut in Current, HST LST | A | - | 12.8 |
| Resistance, main start winding (25°C) | Ω | 19.6 | 11.5 |

Design

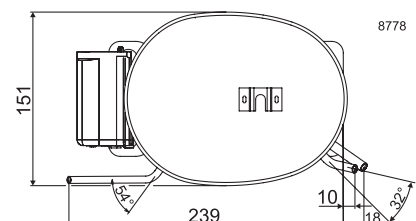
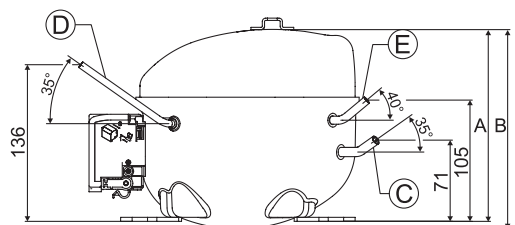
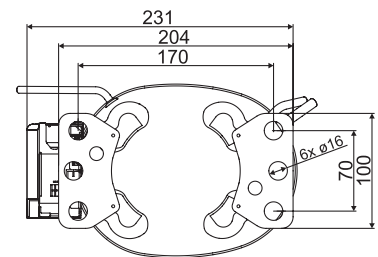
| | | |
|-------------------------------------|-----------------|---------------|
| Displacement | cm ³ | 8.80 |
| Oil quantity (type) | cm ³ | 165 (mineral) |
| Maximum refrigerant charge | g | 150 |
| Free gas volume in compressor | cm ³ | 1620 |
| Weight without electrical equipment | kg | 8.60 |

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 | | | 72.2 | 90.1 | 116 | 126 | 149 | 188 | 233 | | | | | | | | |
| Power cons. in W | | | 70.4 | 78.7 | 88.7 | 92.5 | 100 | 112 | 125 | | | | | | | | |
| Current cons. in A | | | 0.26 | 0.37 | 0.45 | 0.48 | 0.52 | 0.57 | 0.62 | | | | | | | | |
| COP in W/W | | | 1.03 | 1.15 | 1.31 | 1.37 | 1.49 | 1.68 | 1.87 | | | | | | | | |

EN 12900 Household

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 | | | 72.2 | 90.1 | 116 | 126 | 149 | 188 | 233 | | | | | | | | |
| Power cons. in W | | | 67.2 | 75.1 | 84.7 | 88.3 | 95.6 | 107 | 119 | | | | | | | | |
| Current cons. in A | | | 0.25 | 0.36 | 0.43 | 0.46 | 0.49 | 0.55 | 0.59 | | | | | | | | |
| COP in W/W | | | 1.07 | 1.20 | 1.37 | 1.43 | 1.56 | 1.76 | 1.96 | | | | | | | | |

ASHRAE LBP

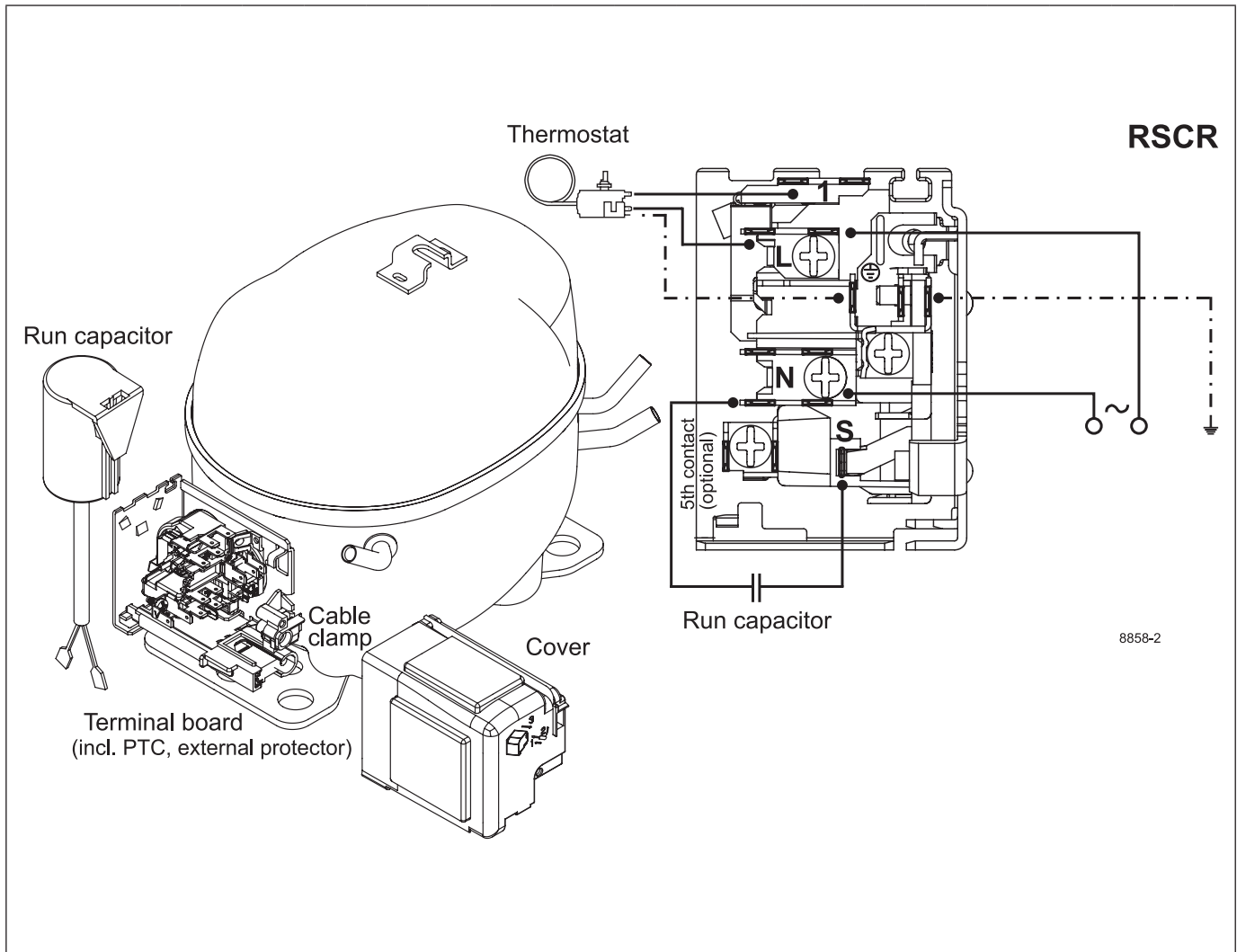
200V, 50Hz, PTC consumption incl., static cooling

| 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 | | | 88.6 | 110 | 141 | 154 | 181 | 229 | 284 | | | | | | | | |
| Power cons. in W | | | 70.4 | 78.6 | 88.5 | 92.2 | 99.7 | 112 | 124 | | | | | | | | |
| Current cons. in A | | | 0.27 | 0.37 | 0.45 | 0.48 | 0.52 | 0.57 | 0.62 | | | | | | | | |
| COP in W/W | | | 1.26 | 1.40 | 1.60 | 1.67 | 1.82 | 2.05 | 2.29 | | | | | | | | |

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 | | | 88.6 | 110 | 141 | 154 | 181 | 229 | 284 | | | | | | | | |
| Power cons. in W | | | 67.3 | 75 | 84.5 | 88 | 95.2 | 107 | 118 | | | | | | | | |
| Current cons. in A | | | 0.25 | 0.36 | 0.43 | 0.45 | 0.49 | 0.54 | 0.59 | | | | | | | | |
| COP in W/W | | | 1.32 | 1.47 | 1.67 | 1.75 | 1.91 | 2.15 | 2.40 | | | | | | | | |



8858-2

EN 12900 Household

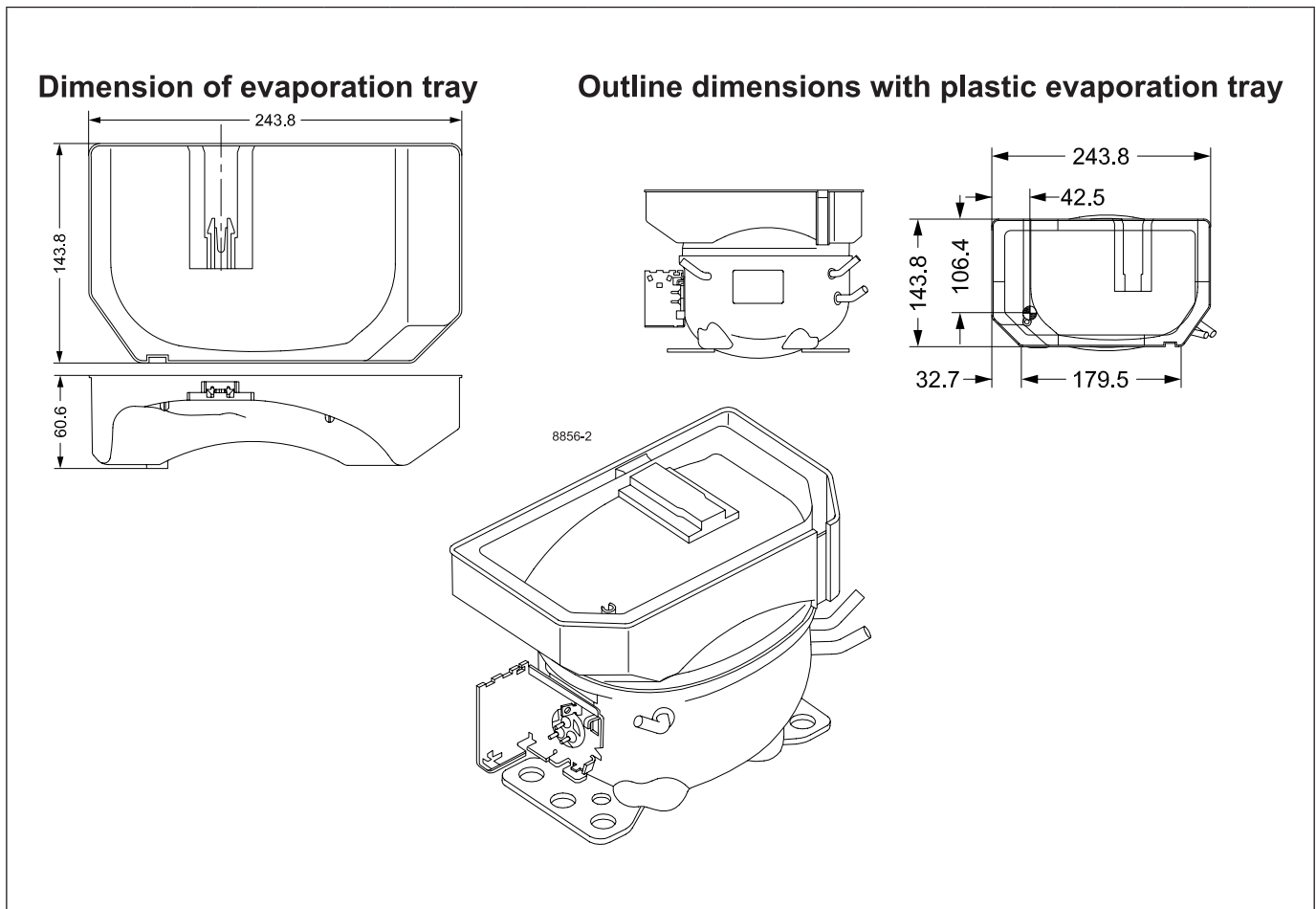
220V, 60Hz, RC 4 µF, PTC consumption incl., static cooling

| | | | | | | | | | | | | | | | | | |
|--------------------|-----|-----|------|------|------|-------|------|------|------|------|----|---|---|-----|----|----|----|
| 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 | | | 87 | 108 | 138 | 151 | 178 | 224 | 278 | | | | | | | | |
| Power cons. in W | | | 79.3 | 88.7 | 100 | 104 | 113 | 126 | 140 | | | | | | | | |
| Current cons. in A | | | 0.30 | 0.42 | 0.51 | 0.54 | 0.58 | 0.64 | 0.70 | | | | | | | | |
| COP in W/W | | | 1.10 | 1.22 | 1.38 | 1.45 | 1.57 | 1.77 | 1.98 | | | | | | | | |

ASHRAE LBP

220V, 60Hz, 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 | | | 107 | 132 | 169 | 184 | 216 | 274 | 339 | | | | | | | | |
| Power cons. in W | | | 79.4 | 88.6 | 99.7 | 104 | 112 | 126 | 140 | | | | | | | | |
| Current cons. in A | | | 0.30 | 0.42 | 0.51 | 0.54 | 0.58 | 0.64 | 0.70 | | | | | | | | |
| COP in W/W | | | 1.35 | 1.49 | 1.69 | 1.77 | 1.93 | 2.17 | 2.43 | | | | | | | | |



| Accessories for HXK87AT | Code number | Test conditions | EN 12900 Household | ASHRAE LBP |
|---|--------------------|---------------------------------------|--------------------|------------|
| 50 Hz: run capacitor (optional) 6.3 mm spade connectors | 4 µF | Condensing temperature | 55°C | 54.4°C |
| 60 Hz: run capacitor (compulsory) 6.3 mm spade connectors | 4 µF | Ambient temperature | 32°C | 32°C |
| Terminal board (incl. PTC and external protector) 6.3 mm spade connectors | DCFC | Suction gas temperature | 32°C | 32°C |
| Motor protector AE 15 BU x | FC | Liquid temperature | no subcooling | 32°C |
| Cable clamp (screws not included) | 11341000 | | | |
| Cover | 15759500 | | | |
| Evaporation tray (optional) | 11318802 | | | |
| All-in-one equipment, e.g. 4ZN | Code number | Mounting accessories | Code number | |
| Cover / cable clamp + screws / earthing screw | 16168000 | on request, various options available | | |

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