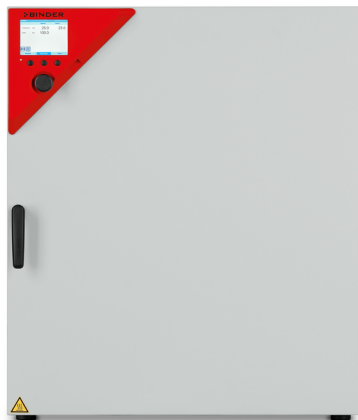


Model KT 170 | Refrigerated incubators with Peltier technology

The KT series combines outstanding performance with impressive energy efficiency and environmental friendliness. The refrigerated incubators of the KT series are state-of-the-art in application and protect the samples.

BENEFITS

- Safe and reproducible incubation conditions even at high environmental conditions
- Hot air disinfection at 100°C
- Energy efficient, environmentally friendly and secure



Model 170



Model 170

IMPORTANT FEATURES

- Temperature range: 4 °C to 100 °C
- APT.line™ preheating chamber technology
- Adjustable fan speed
- Electric refrigeration with Peltier module
- Controller with time-segment and real-time programming
- Display via LCD monitor
- Input via pushbutton/rotary knob
- Inner door made of tempered safety glass
- 2 stainless steel racks
- Units up to 115 liters are stackable
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: Ethernet
- Data recording and USB interface

ORDERING INFORMATION

| Interior volume | | Power supply - unit fuse | Plug* | Version | Model version | Art.-No. |
|---------------------|-----|---------------------------------|-----------|----------|---------------|-----------|
| [L] | [L] | | | | | |
| Model KT 170 | | | | | | |
| 163 | 163 | 200...240 V 1~ 50/60 Hz -10,0 A | CEE 7/7 | Standard | KT170-230V | 9020-0289 |
| | | 100...120 V 1~ 50/60 Hz -10,0 A | NEMA 5-20 | Standard | KT170UL-120V | 9020-0310 |

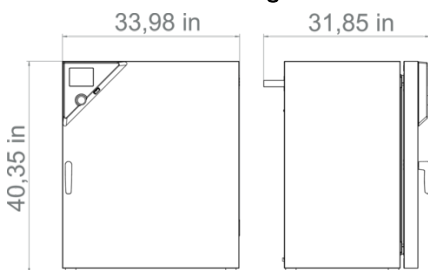
TECHNICAL DATA

| Data | | |
|---|-------------|--------------|
| Designation | KT170-230V | KT170UL-120V |
| Article Number | 9020-0289 | 9020-0310 |
| Option model | Standard | Standard |
| Performance Data Temperature | | |
| Temperature range | 4...100 °C | 4...100 °C |
| Temperature uniformity at 37°C | 0.4 ± K | 0.4 ± K |
| Temperature fluctuation at 37°C | 0.1 ± K | 0.1 ± K |
| Max. heat compensation at 40°C | 100 W | 100 W |
| Recovery time after door was opened for 30 s at 37°C | 3 min | 3 min |
| Electrical data | | |
| Rated Voltage | 200...240 V | 100...120 V |
| Power frequency | 50/60 Hz | 50/60 Hz |
| Nominal power | 0,8 kW | 0,8 kW |
| Unit fuse | 10,0 A | 10,0 A |
| Phase (Nominal voltage) | 1~ | 1~ |
| Measures | | |
| Interior volume | 163 L | 163 L |
| Net weight of the unit (empty) | 102 kg | 102 kg |
| Load per rack | 30 kg | 30 kg |
| Permitted load | 120 kg | 120 kg |
| Wall clearance back | 100 mm | 100 mm |
| Wall clearance sidewise | 240 mm | 240 mm |
| Housing dimensions not incl. fittings and connections | | |
| Width net | 860 mm | 860 mm |
| Height net | 1,025 mm | 1,025 mm |
| Depth net | 655 mm | 655 mm |
| Internal Dimensions | | |
| Interior width | 600 mm | 600 mm |
| Interior height | 765 mm | 765 mm |

| | | |
|----------------------------------|----------|----------|
| Interior depth | 355 mm | 355 mm |
| Inner doors | 1 | 1 |
| Unit doors | 1 | 1 |
| Environment-specific data | | |
| Sound-pressure level | 48 dB(A) | 48 dB(A) |
| Energy consumption at 37°C | 80 Wh/h | 80 Wh/h |
| Fixtures | | |
| Number of shelves (std./max.) | 2/10 | 2/10 |

All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % of the height, width, and depth of the inner chamber. Technical data refers to 100 % fan speed. All indications are average values, typical for units produced in series. We reserve the right to change technical specifications at any time.

DIMENSIONS Incl. fittings and connections [mm]



OPTIONS

| Designation | Description | KT 170 | * | Art.-No. |
|--------------------------------|-------------|--------|----|-----------|
| | left | | | |
| | 10 mm | • | 01 | 8012-1290 |
| | 30 mm | • | 01 | 8012-1158 |
| | 50 mm | • | 01 | 8012-1165 |
| | right | | | |
| | 10 mm | • | 01 | 8012-1289 |
| | 30 mm | • | 01 | 8012-1155 |
| | 50 mm | • | 01 | 8012-1163 |
| | top | | | |
| | 10 mm | • | 01 | 8012-1288 |
| | 30 mm | • | 01 | 8012-1152 |
| | 50 mm | • | 01 | 8012-1161 |
| Access port with silicone plug | | | | |

| Designation | Description | KT 170 | * | Art.-No. |
|--------------------------------------|--|--------|----|-----------|
| | 100 mm | • | 01 | 8012-1168 |
| Alarm output, zero-voltage | for temperature (± 2 °C), accessible via 6-pin DIN socket (max. 24 V - 2,5 A), with audible signal that can be switched off | • | - | 8012-1002 |
| Calibration certificate, expanded | for temperature; for extending the measurement in center of chamber to include another test temperature | • | - | 8012-1122 |
| | for temperature, measurement in center of chamber at specified temperature | • | - | 8012-1141 |
| Calibration certificate, temperature | temperature measurement incl. certificate, 9 measuring points at specified temperature | • | - | 8012-1558 |
| | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | • | - | 8012-1579 |
| | temperature measurement incl. certificate and 27 measuring points at specified temperature | • | - | 8012-1600 |
| Door lock | lockable door handle | • | - | 8012-1668 |
| Pt 100 temperature sensor | additional flexible Pt 100, interior, for displaying the temperature on the unit display | • | - | 8012-0994 |
| Shelf, reinforced | positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system | • | - | 8012-0817 |

ACCESSORIES

| Designation | Description | KT 170 | * | Art.-No. |
|-------------------------|---|--------|---|-----------|
| APT-COM™ 4 | Multi Management Software APT-COM™ | | | |
| | version 4, BASIC edition | • | - | 9053-0039 |
| | version 4, GLP edition | • | - | 9053-0042 |
| | version 4, PROFESSIONAL edition | • | - | 9053-0040 |
| LED light bars | Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz | | | |
| | Basic set 300, length 30 cm | • | - | 8012-1107 |
| | Basic set 500, length 50 cm | • | - | 8012-1108 |
| | Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars | | | |
| | Expansion set 300, length 30 cm | • | - | 8012-1716 |
| | Expansion set 500, length 50 cm | • | - | 8012-1717 |
| Qualification documents | IQ/OQ/PQ documents – supporting documents for validation performed by customers, according to customer requirements, PQ section added to qualification folder IQ/OQ; parameters: temperature, CO ₂ , O ₂ – or pressure, depending on unit | | | |
| | Digital in PDF format | • | - | 7057-0005 |
| | Hard copy inside folder | • | - | 7007-0005 |

| Designation | Description | KT 170 | * | Art.-No. |
|----------------------|---|--------|---|-----------|
| | IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO ₂ , O ₂ , pressure, depending on unit | | | |
| | Digital in PDF format | • | - | 7057-0001 |
| | Hard copy inside folder | • | - | 7007-0001 |
| Rack | stainless steel | • | - | 8012-2049 |
| Rack, reinforced | stainless steel, with fasteners (1 set of 4) | • | - | 8012-0828 |
| Rack accessories | fasteners (1 set of 4) for additional security of racks | • | - | 8012-2280 |
| Rubber pads | set anti-slip feet | • | - | 8012-2030 |
| Table on castors | stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm | • | - | 9051-0018 |
| pH-neutral detergent | concentrated, for gentle remove of residual contaminants; 1 kg | • | - | 8012-2250 |

SERVICES

| Designation | Description | * | Art.-No. |
|--|---|---|-----------|
| Calibration services | | | |
| Temperature calibration | Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Travel to be quoted separate. | – | DL30-0101 |
| | Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate Travel to be quoted separate. | – | DL30-0102 |
| Temperature measurement, 9 measuring points | Temperature measurement with 9 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | – | DL30-0109 |
| Temperature measurement, 18 measuring points | Temperature measurement with 18 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 2 shelves are required. | – | DL30-0118 |
| Temperature measurement, 27 measuring points | Temperature measurement with 27 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | – | DL30-0127 |
| Installation services | | | |
| Unit installation | Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work) Travel to be quoted as separate. | – | DL10-0100 |
| Unit instructions | Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming. Travel to be quoted as separate Limited to 3 hours. | – | DL10-0500 |
| Maintenance services | | | |
| BRONZE 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate. 10% Discount on Spare Parts and Labor for any additional Services needed Wear + tear parts to be purchased or billed to customer. Travel to be quoted as separate. | – | DL20-0710 |

| Designation | Description | * | Art.-No. |
|------------------------------------|---|---|-----------|
| GOLD 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate of Temperature. 25% Discount on Spare Parts and Labor for any additional Services needed. One additional courtesy visit per year can be used for service visit or operator. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate. | – | DL20-0910 |
| Preventive maintenance | One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Checking a test temperature specified by the user in center of usable space without certificate. Wear + tear parts need to be purchased or billed to customer. Travel to be quoted as separate. | – | DL20-0200 |
| SILVER 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate 15% Discount on Spare Parts and Labor for any additional Services needed One additional courtesy visit per year can be used for service visit or operator training. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate. | – | DL20-0810 |
| Validation services | | | |
| Execution of IQ/OQ | Execution of IQ/OQ in accordance with qualification folder. Travel to be quoted separate. | – | DL41-0200 |
| Execution of IQ/OQ/PQ | Execution of IQ/OQ/PQ in accordance with qualification folder. Travel to be quoted separate. | – | DL44-0500 |
| Warranty service | | | |
| 1-year warranty extension | The warranty is extended by 1 year from the delivery date, wear parts are excluded | – | DL50-0010 |

NOTES

01 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.

BINDER GmbH

Tuttlingen, Germany
TEL +49 7462 2005 0
FAX +49 7462 2005 100
info@binder-world.com
www.binder-world.com

BINDER Inc.

Bohemia, NY, USA
TEL +1 631 224 4340
FAX +1 631 224 4354
usa@binder-world.com
www.binder-world.us

BINDER Environmental Testing Equipment (Shanghai) Co., Ltd.

Shanghai, P.R. China
TEL +86 21 685 808 25
FAX +86 21 685 808 29
china@binder-world.com
www.binder-world.com

BINDER Asia Pacific (Hong Kong) Ltd.

Kowloon, Hong Kong, P.R. China
TEL +852 39070500
FAX +852 39070507
asia@binder-world.com
www.binder-world.com