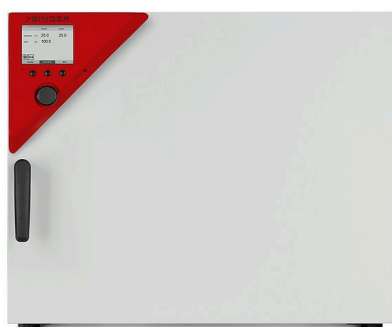


Model KT 115 | Refrigerated incubators with thermoelectric refrigeration

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
- Disinfection routine at 100 °C
- Energy efficient, environmentally friendly and secure



Model 115



Model 115

MAIN 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

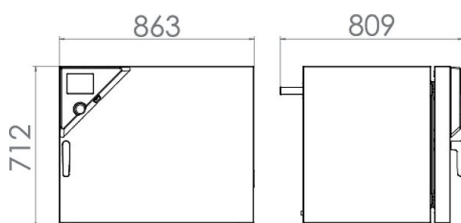
ORDERING INFORMATION

| Interior volume [cu.ft.] | Voltage | Option model | Version | Art.-No. |
|--------------------------|-------------------------|--------------|--------------|-----------|
| 3.6 | 200...240 V 1~ 50/60 Hz | Standard | KT115-230V | 9020-0313 |
| | 100...120 V 1~ 50/60 Hz | Standard | KT115UL-120V | 9020-0314 |

TECHNICAL DATA

| Description | KT115-230V ¹ | KT115UL-120V ¹ |
|--|-------------------------|---------------------------|
| Article Number | 9020-0313 | 9020-0314 |
| Performance Data Temperature | | |
| Temperature range | 4...100 | 4...100 |
| Temperature variation at 37 °C [± K] | 0.3 | 0.3 |
| Temperature fluctuation [± K] | 0.1 | 0.1 |
| Max. heat compensation at 37 °C [W] | 100 | 100 |
| Recovery time after 30 seconds door open at 37 °C [min] | 3 | 3 |
| Electrical data | | |
| Rated Voltage [V] | 200...240 | 100...120 |
| Power frequency [Hz] | 50/60 | 50/60 |
| Nominal power [kW] | 0.7 | 0 |
| Unit fuse [A] | 3.1 | 3.1 |
| Phase (Nominal voltage) | 1~ | 1~ |
| Measures | | |
| Interior volume [cu.ft.] | 3.6 | 3.6 |
| Net weight of the unit (empty) [lbs] | 183 | 183 |
| Permitted load [lbs] | 220 | 220 |
| Load per rack [lbs] | 66 | 66 |
| Wall clearance back [in] | 3.94 | 3.94 |
| Wall clearance sidewise [in] | 9.46 | 9.46 |
| Internal Dimensions | | |
| Width [in] | 23.64 | 23.64 |
| Height [in] | 17.93 | 17.93 |
| Depth [in] | 13.99 | 13.99 |
| Doors | | |
| Inner doors | 1 | 1 |
| Unit doors | 1 | 1 |
| Housing dimensions not incl. fittings and connections | | |
| Width net [in] | 33.88 | 33.88 |
| Height net [in] | 28.17 | 28.17 |
| Depth net [in] | 25.81 | 25.81 |
| Environment-specific data | | |
| Energy consumption at 25 °C [Wh/h] | 75 | 75 |
| Energy consumption at 37 °C [Wh/h] | 75 | 75 |
| Sound-pressure level [dB(A)] | 48 | 48 |
| Fixtures | | |
| Number of shelves (std./max.) | 2/6 | 2/6 |

1 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 in accordance 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 | * | Art.-No. |
|---|--|--------|-----------|
| Calibration certificate, temperature | temperature measurement incl. certificate and 27 measuring points at specified temperature | - | 8012-1600 |
| | 120 V option model | - | 8012-0928 |
| | 230 V option model | - | 8012-0929 |
| | additional flexible Pt 100, interior, for displaying the temperature on the unit display | - | 8012-0993 |
| | for controlling 3 relay contacts via program regulators, accessible via 6-pin DIN socket (max. 24 V - 2.5 A) | - | 8012-0997 |
| | for temperature (± 2 °C), accessible via 6-pin DIN socket (max. 24 V - 2.5 A), with audible signal that can be switched off | - | 8012-1001 |
| | for temperature; for extending the measurement in center of chamber to include another test temperature | - | 8012-1122 |
| | left | | |
| | 10 mm | 01 | 8012-1290 |
| | 30 mm | 01 | 8012-1158 |
| | 50 mm | 01 | 8012-1165 |
| | lockable door handle | - | 8012-1668 |
| | Measurement in center of chamber at specified temperature | - | 8012-1141 |
| | positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system | - | 8012-0817 |
| | right | | |
| Options/Accessories | 10 mm | 01 | 8012-1289 |
| | 30 mm | 01 | 8012-1155 |
| | 50 mm | 01 | 8012-1163 |
| | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | - | 8012-1579 |
| | temperature measurement incl. certificate, 9 measuring points at specified temperature | - | 8012-1558 |
| | top | | |
| | 10 mm | 01 | 8012-1288 |
| | 30 mm | 01 | 8012-1152 |
| | 50 mm | 01 | 8012-1161 |
| | 100 mm | 01, 10 | 8012-1168 |
| | Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67) | 07 | 8012-1005 |
| | with 15 W light bulb | | |
| | 120 V option model | - | 8012-0932 |
| | 230 V option model | - | 8012-0933 |
| | with visual alarm (DIN 12880) | - | 8012-0999 |

* Notes › See last page

ACCESSORIES

| Designation | Description | * | Art.-No. |
|----------------------------------|------------------------------------|----|-----------|
| | Multi Management Software APT-COM™ | | |
| Multi Management Software | version 4, BASIC edition | 19 | 9053-0039 |
| | version 4, GLP edition | 19 | 9053-0042 |
| | version 4, PROFESSIONAL edition | 19 | 9053-0040 |

* Notes › See last page

| Designation | Description | * | Art.-No. |
|--|---|-----------|-----------|
| | Stainless steel | - | 6004-0115 |
| | stainless steel | - | 6004-0112 |
| | 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 |
| | concentrated, for gentle remove of residual contaminants; 1 kg | - | 1002-0016 |
| | 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 |
| | fasteners (1 set of 4) for additional security of racks | - | 8012-0620 |
| Options/Accessories | 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 |
| | 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 |
| | LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable) | 19 | 8012-0821 |
| | set of 4 anti-slip feet, for safe stacking of units | - | 8012-1887 |
| | stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm | - | 9051-0018 |
| | stainless steel, with fasteners (1 set of 4) | - | 8012-0828 |
| T 220: For continuous temperature logging from -90 °C to 220 °C. The kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit | 19 | 8012-0715 | |

* Notes › See last page

SERVICES

| Designation | Description | * | Art.-No. |
|-------------------------------|--|----------------|-----------|
| Installation services | | | |
| Services | Unit function instructions for operation and programming of the controller | 18 | DL10-0500 |
| | Unpacking and setting up of unit, connecting to existing connections, and checking function | 13, 18 | DL10-0100 |
| Preventive maintenance | | | |
| Services | Executive of equipment inspection according to maintenance plan | 14, 18 | DL20-0200 |
| Calibration services | | | |
| Services | Expansion – including certificate, each additional measuring point in center of chamber at specified test temperature | 14, 16, 17, 18 | DL30-0102 |
| | Temperature calibration with 1 measuring point in center of chamber at a specified test temperature, including certificate | 14, 16, 17, 18 | DL30-0101 |
| | Temperature measurement with 18 measuring points at a specified test temperature, including certificate | 14, 16, 17, 18 | DL30-0118 |
| | Temperature measurement with 27 measuring points at a specified test temperature, including certificate | 14, 16, 17, 18 | DL30-0127 |
| | Temperature measurement with 9 measuring points at a specified test temperature, including certificate | 14, 16, 17, 18 | DL30-0109 |
| Validation services | | | |
| Services | Execution of IQ/OQ in accordance with qualification folder | 15, 18 | DL41-0200 |
| | Execution of IQ/OQ/PQ in accordance with qualification folder | 15, 18 | DL44-0500 |
| Warranty service | | | |
| Services | The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded | - | DL03-0041 |
| | The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded | - | DL03-0042 |

* Notes › See last page

NOTES

- 01 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.
- 02 UL mark is not granted when this option is used.
- 03 Heat resistant only to max. 200 °C.
- 04 Only available on units rated for 230 V.
- 07 The additional heat input may affect the temperature behavior.
- 09 Not in conjunction with the optional access port, door with window and interior lighting.
- 10 Not available on 23-liter units.
- 11 Not available on 23- or 53-liter units.
- 12 Only available on units rated for 230 V or 400 V.
- 13 Installation and connections take place at unit location; transport within the company only upon consultation.
- 14 We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- 15 OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- 16 Sensor calibration is performed in an accredited calibration laboratory.
- 17 Calibration is performed according to the BINDER factory standard.
- 18 Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not include a country-specific added fee (available on request).
- 19 For additional accessories, refer to the Process documentation chapter.

BINDER GmbH

Tuttlingen, Germany
TEL +49 7462 2005 0
FAX +49 7462 2005 100
info@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

Representative Office for CIS

Moscow, Russia
TEL +7 495 988 15 16
FAX +7 495 988 15 17
russia@binder-world.com
www.binder-world.com

**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 Inc.

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