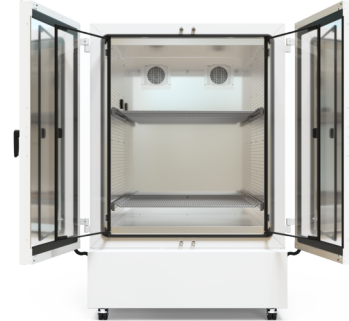


Model KB PRO 1060 | Cooling incubators with an extended temperature range

A temperature control cabinet that can do it all, the KB PRO is our most powerful cooling incubator. With a temperature range of -20°C to +100°C and comprehensive programming options, it covers a wide range of applications that extend well beyond incubation. With optional light modules, the KB PRO can be converted into a plant growth chamber.



Model 1060



Model 1060

IMPORTANT FEATURES

- Temperature range: -20°C to +100°C
- Proven APT.line™ preheating chamber technology
- Energy-efficient cooling with modern inverter cooling unit
- Cooling with climate-neutral R-290 refrigerant
- Door heating to prevent condensation
- Adjustable fan speed
- Housing design with HIT technology
- Stainless-steel inner chamber
- Inner doors made of metal oxide-coated safety glass
- Two racks with stainless-steel telescopic rails
- Large access port with silicone plug
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- Intuitive touchscreen controller with time-segment and real-time programming
- Ergonomically adjustable control terminal (for units with a volume of 470 liters and above)
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Internal data logger, measured values can be read out in open format via USB
- Class 3.3 independent temperature safety device (DIN 12880) with visual and acoustic alarms
- Unit self-test for comprehensive status analysis
- Data interfaces: Ethernet, USB
- BINDER Multi Management Software APT-COM™ basic edition
- Optional light modules for ICH photostability testing (for models 260, 470, 720)
- Optional LED light modules for plant growth (for models from 260)

ORDERING INFORMATION

| Interior volume [L] | Power supply - unit fuse | Plug* | Version | Model version | Art.-No. |
|--------------------------|---------------------------------|-------|----------|----------------|-----------|
| Model KB PRO 1060 | | | | | |
| 1,070 | 208...240 V 1~ 50/60 Hz -16,0 A | – | Standard | KBPRO1060-230V | 9020-0437 |

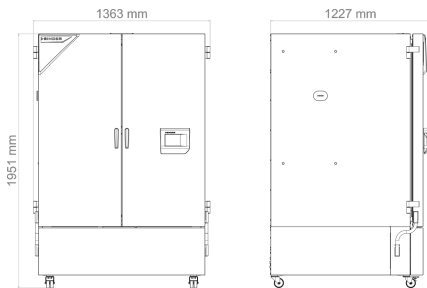
TECHNICAL DATA

| Data | |
|---|----------------|
| Designation | KBPRO1060-230V |
| Article Number | 9020-0437 |
| Option model | Standard |
| Performance Data Temperature | |
| Temperature range | -20...100 °C |
| Temperature uniformity at 37°C | 0.2 ± K |
| Temperature fluctuation at 37°C | 0.1 ± K |
| Max. heat compensation at 37°C | 1,000 W |
| Recovery time after door was opened for 30 s at 37°C | 4 min |
| Electrical data | |
| Rated Voltage | 208...240 V |
| Power frequency | 50/60 Hz |
| Nominal power | 1,8 kW |
| Unit fuse | 16,0 A |
| Phase (Nominal voltage) | 1~ |
| Dimensions and weights | |
| Interior volume | 1,070 L |
| Net weight of the unit (empty) | 353 kg |
| Load per rack | 40 kg |
| Permitted load | 100 kg |
| Wall clearance back | 100 mm |
| Wall clearance sidewise | 180 mm |
| Housing dimensions not incl. fittings and connections | |
| Width net | 1,285 mm |
| Height net | 1,951 mm |
| Depth net | 1,175 mm |
| Internal Dimensions | |
| Interior width | 1,011 mm |
| Interior height | 1,250 mm |

| | |
|----------------------------------|----------|
| Interior depth | 847 mm |
| Inner doors | 2 |
| Unit doors | 2 |
| Environment-specific data | |
| Energy consumption at 37°C | 340 Wh/h |
| Fixtures | |
| Number of shelves (std./max.) | 2/16 |

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. |
|--------------------------------|-------------|----|-----------|
| Access port with silicone plug | left | | |
| | 30 mm | 01 | 8012-2473 |
| | 50 mm | 01 | 8012-2474 |
| | 100 mm | 01 | 8012-2475 |
| | right | | |
| | 30 mm | 01 | 8012-2476 |
| | 50 mm | 01 | 8012-2477 |
| | 100 mm | 01 | 8012-2478 |
| | top | | |
| | 30 mm | 01 | 8012-2498 |
| | 50 mm | 01 | 8012-2479 |
| | 100 mm | 01 | 8012-2480 |

| Designation | Description | * | Art.-No. |
|--------------------------------------|---|---|-----------|
| Alarm output, zero-voltage | Accessible via 3-pin clamping sleeve (max. 24 V - 2.5 A), with acoustic signal that can be switched off | - | 8012-2502 |
| Analog output 4-20 mA | for temperature values (output not adjustable) | - | 8012-2573 |
| Calibration certificate, expanded | for temperature; for extending the measurement in center of chamber to include another test temperature | - | 8012-2373 |
| | for temperature, measurement in center of chamber at specified temperature | - | 8012-2572 |
| Calibration certificate, temperature | temperature measurement incl. certificate, 9 measuring points at specified temperature | - | 8012-2377 |
| | temperature measurement incl. certificate, 15- 18 measuring points at specified temperature | - | 8012-2381 |
| | temperature measurement incl. certificate and 27 measuring points at specified temperature | - | 8012-2425 |
| Coated heat exchanger | For preventing damage to the aluminum heat exchanger caused by corrosive sample material | - | 8012-2464 |
| Door lock | lockable door handle | - | 8012-2533 |
| Door lock, electromechanical | can be opened with PIN code via controller | - | 8012-2588 |
| Inner chamber, reinforced | max. total load 200 kg | - | 8012-2516 |
| Interior lighting | With climate-resistant LEDs, switches when the unit door is opened | - | 8012-2564 |
| Shipping pallet | with unloading ramp for installing unit without forklift | - | 8012-2546 |
| Specimen temperature display | Flexible Pt 100 indoor temperature sensor, for object temperature display or control | - | 8012-2553 |
| Swivel casters, height-adjustable | For horizontal alignment of the unit on uneven floors | - | 8012-2542 |

ACCESSORIES

| Designation | Description | * | Art.-No. |
|---------------------------------|---|---|-----------|
| APT-COM™ 4 GLP-Edition | for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CFR 11. | | |
| | version 4, GLP edition | - | 9053-0042 |
| APT-COM™ 4 PROFESSIONAL-Edition | convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. | | |
| | version 4, PROFESSIONAL edition | - | 9053-0040 |
| CO ₂ gassing module | BINDER CO ₂ gassing module 0-1%, with NDIR CO ₂ sensor and analog output 4-20 mA | - | 8012-2140 |
| | BINDER CO ₂ gassing module 0-20%, with NDIR CO ₂ sensor and analog output 4-20 mA | - | 8012-2138 |
| 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 |

| Designation | Description | * | Art-No. |
|-------------------------|---|---|-----------|
| | Basic set 900, length 90 cm | - | 8012-1109 |
| | 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 |
| | Expansion set 900, length 90 cm | - | 8012-1718 |
| Light module for plants | BINDER LED plant light module consisting of 16 LED strip lights, 3-channel controller and fresh air pump as well as independent power supply | - | 8012-2439 |
| pH-neutral detergent | concentrated, for gentle remove of residual contaminants; 1 kg | - | 8012-2250 |
| | 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 |
| Qualification documents | 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 |
| Reinforced rack | Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel | | |
| | Load-bearing capacity 80 kg | - | 8012-2415 |
| Shelf rack, perforated | Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel | | |
| | Load-bearing capacity 40 kg | - | 8012-2409 |
| Standard rack | Shelf rack in set with pair of retaining rails (ball bearing mounted telescopic rails), made entirely of stainless steel | | |
| | Load-bearing capacity 40 kg | - | 8012-2386 |
| | Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel | | |
| | Load-bearing capacity 40 kg | - | 8012-2392 |

SERVICES

| Designation | Description | * | Art-No. |
|--------------------------------------|---|---|-----------|
| Calibration services | | | |
| Calibration certificate, temperature | Calibration of one (1) test temperature specified by the user in center of chamber, including certificate | - | DL30-0135 |

| Designation | Description | * | Art.-No. |
|--|---|---|-----------|
| | Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate | – | DL30-0102 |
| Temperature measurement, 9 measuring points | Temperature measurement with 9 measuring points with a set value specified by the user, including certificate | – | DL30-0109 |
| Temperature measurement, 18 measuring points | Temperature measurement with 18 measuring points with a set value specified by the user, including certificate | – | DL30-0118 |
| Temperature measurement, 27 measuring points | Temperature measurement with 27 measuring points with a set value specified by the user, including certificate | – | DL30-0127 |
| Installation services | | | |
| Unit commissioning | 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) | – | DL10-0100 |
| Unit instructions | Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming | – | DL10-0500 |
| Maintenance contracts | | | |
| BRONZE 3-year maintenance contract | Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts | – | DL20-0720 |
| GOLD 3-year maintenance contract | Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, replacement of wear parts, calibration of one test temperature specified by the user in the center of the usable space, including certificate | – | DL20-0945 |
| SILVER 3-year maintenance contract | Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts, testing of all key functions, calibration of one test temperature specified by the user in the center of the usable space, without certificate | – | DL20-0845 |
| Maintenance services | | | |
| Maintenance | One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Calibration of a test temperature specified by the user in center of usable space without certificate | – | DL20-0604 |
| Validation services | | | |
| Execution of IQ/OQ | Execution of IQ/OQ in accordance with qualification folder | – | DL41-0200 |
| Execution of IQ/OQ/PQ | Execution of IQ/OQ/PQ in accordance with qualification folder | – | 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.



WolfLabs

Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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Please contact us if this literature doesn't answer all your questions.