Cooling incubators

KB | KB ECO | KT series

Cooling incubators

BINDER incubators are gentle on samples and provide high-quality performance. Every KB series cooling incubator thus makes safe, reproducible incubation possible, even at high ambient temperatures. Together with the efficient weekly program function, cooling incubators from BINDER are truly versatile in laboratory work with microorganisms.
The KB ECO series combines exceptional performance with low energy consumption. Additionally, every BINDER incubator offers true added value with its exemplary environmental friendliness.

Series KB ECO | with environmentally friendly thermoelectric cooling

Thanks to thermoelectric cooling technology with patented heat dissipation, the new KB ECO cooling incubator is one of the most energy-efficient cooling incubator on the market. The thermoelectric cooling technology means the KB ECO series is also very quiet during operation.

KB ECO 720 model

BENEFITS

- **Safe:** Unique condensate and dry-out protection for all operating conditions
- **Reliable:** Fail-safe operation due to intelligent thermoelectric tempering
- **Smart:** Temperatures programmable for intermitted incubation and refrigeration
- **Economical:** Minimum energy consumption thanks to optimized thermoelectric cooling

MAIN FEATURES

- Temperature range: 0 °C through +70 °C (max. 26 °C below the ambient temperature)
- APT.line™ preheating chamber technology
- Electric temperature control thanks to thermoelectric cooling module with innovative heat dissipation
- Inner door made of tempered safety glass
- Inner chamber made completely of stainless steel
- 2 stainless steel racks
- Adjustable condensate protection
- Access port with silicone plug Ø 30 mm
- LCD to display temperature along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB

AVAILABLE SIZES

Model	Interior volume [L]	Online data sheets
KB ECO 240	247	› https://go2binder.com/en-KB-ECO240
KB ECO 400	400	› https://go2binder.com/en-KB-ECO400
KB ECO 720	700	› https://go2binder.com/en-KB-ECO720
KB ECO 1020	1020	› https://go2binder.com/en-KB-ECO1020

Find all details online: go2binder.com/en-KBECO

OPTIONAL EQUIPMENT

LED light bar sets	LED light bars in three different lengths (30, 50, 90 cm) can be easily and variably positioned in the BINDER unit, including various attachment options and control unit. Additional light bars can be added as desired.	
Access port with silicone plug	For introducing external measuring instruments. Large selection of different diameters and positions (left, right, or top)	
Door lock	Lockable door handle prevents unauthorized access.	
Services	You can access our installation, maintenance, calibration, validation, or warranty services by taking out a Maintenance Service Agreement or by simply getting in touch when you need us. More information is available in the accessories and services chapter.	
BINDER INDIVIDUAL	Using a BINDER series production product as a basis, we develop individual solutions as a single unit or in small batches. All products are tested, certified, and supplied with a full functional guarantee and warranty. More information is available in the accessories and services chapter.	

▸ All extras online go2binder.com/en-options

TECHNICAL DATA

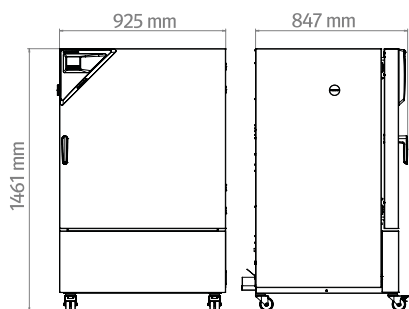| Description	KB ECO 240	KB ECO 400	KB ECO 720	KB ECO 1020
Measures				
Interior volume [L]	247	400	700	1020
Net weight of the unit (empty) [kg]	152	196	272	327
Permitted load [kg]	100	120	150	150
Load per rack [kg]	30	30	45	45
Wall clearance back [mm]	100	100	100	100
Wall clearance sidewise [mm]	100	100	100	100
Internal Dimensions				
Innenraum Breite [mm]	650	650	973	973
Innenraum Höhe [mm]	785	1200	1250	1250
Innenraum Tiefe [mm]	485	390	576	836
Housing dimensions not incl. fittings and connections				
Width net [mm]	925	925	1250	1250
Height net [mm]	1461	1946	1925	1925
Depth net [mm]	796	796	885	1149
Performance Data Temperature				
Temperature range (max. 26 °C under ambient temperature) [°C]	–	–	0…70	0…70
Temperature range (max. 28 °C under ambient temperature) [°C]	0…70	0…70	–	–
Temperature variation at 37 °C [± K]	0.1	0.1	0.1	0.1
Temperature fluctuation at 37 °C [± K]	0.1	0.1	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	3	6	4	4
Electrical data				
Nominal power (version 120 V) [kW]	0.9	1.2	1.3	1.3
Nominal power (version 230 V) [kW]	0.9	1.2	1.3	1.3
Environment-specific data				
Energy consumption at 37 °C [Wh/h]	65	70	105	105
Fixtures				
Number of shelves (std./max.)	2/9	2/15	2/15	2/15

ORDERING INFORMATION [Art. No.]

Further details: Go to www.binder-world.com › Search › Enter Article Number

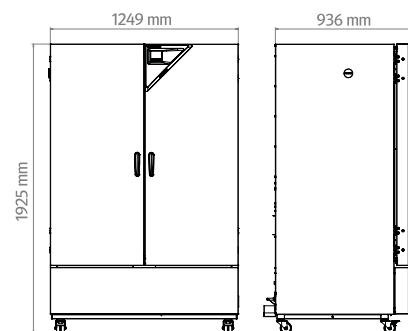| Voltage	Option model	KB ECO 240	KB ECO 400	KB ECO 720	KB ECO 1020
200…230 V 1~ 50/60 Hz	Standard	9020-0423	9020-0465	9020-0424	9020-0425
100…120 V 1~ 50/60 Hz	Standard	9020-0426	9020-0466	9020-0427	9020-0428

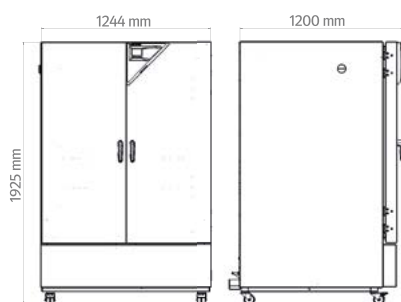## DIMENSIONS incl. fittings and connections [mm]

KB ECO 240

925 mm · 847 mm · 1461 mm

KB ECO 400

925 mm · 847 mm · 796 mm · 1946 mm · 923 mm

KB ECO 720

1249 mm · 936 mm · 1925 mm

KB ECO 1020

1244 mm · 1200 mm · 1925 mm
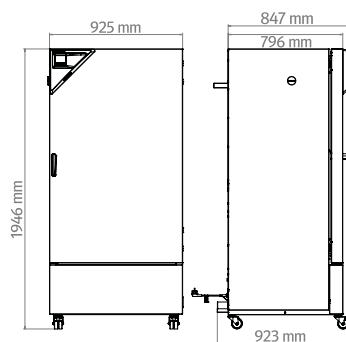
ORDERING INFORMATION OPTIONS

Designation	Description	KB ECO 240	KB ECO 400	KB ECO 720	KB ECO 1020	Art. No.
Access port with silicone plug	left					
	30 mm	•	•	•	•	8012-2113
	50 mm	•	•	•	•	8012-2120
	100 mm	•	•	•	•	8012-2118
	right					
	30 mm	•	•	•	•	8012-2112
	50 mm	•	•	•	•	8012-2119
	100 mm	•	•	•	•	8012-2117
	top					
	30 mm	•	•	•	•	8012-2114
	50 mm	•	•	•	•	8012-2115
	100 mm	•	•	•	•	8012-2116
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	•	•	•	8012-2107
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	•	•	•	•	8012-2106
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	•	•	•	8012-2110
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	•	•	•	8012-2109
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	•	•	•	8012-2108

Designation	Description	KB ECO 240	KB ECO 400	KB ECO 720	KB ECO 1020	Art. No.
Door lock	lockable door handle	•	•	–	–	8012-2121
		–	–	•	•	8012-2122

ORDERING INFORMATION ACCESSORIES

Designation	Description	KB ECO 240	KB ECO 400	KB ECO 720	KB ECO 1020	Art. No.
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units.					
	version 4, BASIC edition	•	•	•	•	9053-0039
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
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
	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
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	•	•	•	8012-2250
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
	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
Rack	stainless steel	•	•	–	–	8012-2050
		–	–	•	–	8012-2051
		–	–	–	•	8012-2052
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	•	•	–	–	8012-0638
		–	–	•	–	8012-0674
		–	–	–	•	8012-0968
Shelf, perforated	Stainless steel	•	•	–	–	8012-2163
		–	–	•	–	8012-2252
		–	–	–	•	8012-2254