

Model KB 720 | Cooling incubators with compressor technology

The powerful virtuoso in cooling incubators for microorganisms: the KB masters temperature ranges from -5 °C to 100 °C. The new KB series consumes up to 30% less energy compared to its predecessor. With its extensive programming options and homogenous incubation conditions even when fully loaded, this cooling incubator covers a wide range of applications.

BENEFITS

- · Safe, reproducible incubation, even at high ambient temperatures
- Disinfection routine at 100 °C
- Up to 30% lower energy consumption compared to the previous model



Model 720

MAIN FEATURES

- Temperature range: -5 °C to 100 °C
- APT.line[™] preheating chamber technology
- · Up to 30% lower energy consumption compared to the previous model
- · Cooling with compressor cooling unit
- Door heating
- Adjustable fan speed
- · Controller with time-segment and real-time programming



Model 720

- Inner door made of tempered safety glass
- 2 stainless steel racks
- · 4 casters, two with locking brakes
- Access port with silicone plug, 30 mm, left
- Class 3.1 independent temperature safety device (DIN 12880) with visual and acoustic alarm
- Computer interface: Ethernet

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
Model KB 720				
698	200240 V 1~ ph 50/60 Hz	Standard	KB720-230V	9020-0204
			KB720UL-240V	9020-0306

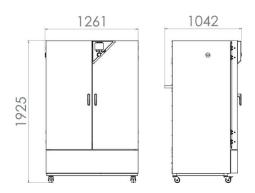


TECHNICAL DATA

Description	KB720-230V ¹	KB720UL-240V ¹
Article Number	9020-0204	9020-0306
Performance Data Temperature		
Temperature range [°C]	-5100	-5100
Temperature variation at 37 °C [± K]	0.2	0.2
Temperature fluctuation at 37 °C [± K]	0.1	0.1
Recovery time after 30 seconds door open at 37 °C [min]	3	3
Electrical data		
Rated Voltage [V]	200240	200240
Power frequency [Hz]	50/60	50/60
Nominal power [kW]	2.3	2.3
Unit fuse [A]	16	16
Phase (Nominal voltage)	1~	1~
Outer dimensions		
Width net [mm]	1250	1250
Height net [mm]	1925	1925
Depth net [mm]	885	885
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	100	100
Doors		
Inner doors	2	2
Unit doors	2	2
Internal Dimensions		
Width [mm]	970	970
Height [mm]	1250	1250
Depth [mm]	576	576
Measures		
Interior volume [L]	698	698
Net weight of the unit (empty) [kg]	304	304
permitted load [kg]	150	150
Load per rack [kg]	45	45
Environment-specific data		
Energy consumption at 37 °C [Wh/h]	360	360
Sound-pressure level [dB(A)]	53	53
Fixtures		
Number of shelves (std./max.)	2/15	2/15

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 AND ACCESSORIES

Designation	Description	*	ArtNo.
Access port with silicone plug	left		
	30 mm	01	8012-0648
	50 mm	01	8012-0653
	right		
	30 mm	01	8012-0647
	50 mm	01	8012-0652
	top		
	30 mm	01	8012-0649
	50 mm	01	8012-0650
	100 mm	01	8012-0651
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	-	8012-1083
Analog output 4-20 mA	for temperature values (output not adjustable)	02	8012-1073
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
Edition	version 4, BASIC edition	19	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.		
Lation	version 4, GLP edition	19	9053-0042
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL- Edition	version 4, PROFESSIONAL edition	19	9053-0040
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1120
	for temperature, measurement in center of chamber at specified temperature	-	8012-1139
Calibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1598
emperature	temperature measurement incl. certificate, 15-18 measuring points at specified temperature	-	8012-1577
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1556
Class 3.3 independent temperature safety device	with visual alarm (DIN 12880)	-	8012-1081
Data Logger Kit	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
Data Logger Software	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	19	8012-0821
Door lock	lockable door handle	-	8012-1777
Interior lighting	with two 15 W light bulbs		
	230/240 V option model	02	8012-1071
Interior socket	Waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding	07	8012-1075

* Notes > See last page

BINDER

Data Sheet Model KB 720

BINDER

Designation	Description	*	ArtNo.
	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
LED light bars	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		1002-0016
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-1079
Rack	stainless steel	-	6004-0106
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-0620
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-0674
Shelf, perforated	Stainless steel	-	8009-0486
Shelf, reinforced	positioned at bottom level, max. load 67 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system		8012-0673
* Notes > See last page			
BERVICES			

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Installation	and set up of unit at operating location, connect to existing connections	13, 18	DL10-0100
Instruction	unit function instructions for operation and programming of the controller	18	DL10-0500
Preventive maintenance			
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL20-0200
Calibration services			
Calibration temperature incl. certificate	including certificate, one measuring point in center of chamber at specified temperature	14, 16, 17, 18	DL30-0101
Temperature measurement 18 measuring points	including certificate, 18 measuring points at specified temperature	14, 16, 17, 18	DL30-0118
Temperature measurement 27 measuring points	including certificate, 27 measuring points at specified temperature	14, 16, 17, 18	DL30-012
Temperature measurement 9 measuring points	including certificate, 9 measuring points at specified temperature	14, 16, 17, 18	DL30-010
Validation services			
Execution of IQ/OQ	in accordance with qualification folder	15, 18, 20	DL41-0200
Execution of IQ/OQ/PQ	in accordance with customer's requirement, price: on request	15, 18	DL44-0500
Qualification folder IQ/OQ	supporting documents for validation performed by customer, consisting of: IQ/OQ checklists, unit schematics, QM certificate in accordance with ISO 9001	15, 18, 20	8012-0873
Qualification folder IQ/OQ/PQ	supporting documents for validation performed by customer, in accordance with customer's requirement, extension of Qualification folder IQ/OQ by chapter PQ	15, 18	8012-0960
Warranty service			
Extension of the warranty from 2 to 3 years	beginning with the date of delivery, wearing parts are not included	_	DL01-804
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	-	DL01-804

* Notes > See last page

BINDER

NOTES

- 01 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.
- UL mark is not granted when this option is used. 02
- 03 Heat resistant only to max. 200 °C Only available on units rated for 230 V. 04
- 06
- Heating-up time may increase as a result of the lower heat conductivity. The additional heat input may affect the temperature behavior. 07
- Not in conjunction with the optional access port, door with window and interior lighting. 09
- 10 Not available on 23-liter units.
- 11 Not available on 23- or 53-liter units.
- Only available on units rated for 230 V or 400 V. Installation and connections take place at unit location; transport within the company only upon consultation. 12 13
- We recommend a BINDER service contract to cover unit inspections, calibrations and validations. 14
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists. 15
- 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).
- For additional accessories, refer to the Process documentation chapter. 19
- 20 When ordering IQ/OQ qualification folders and associated IQ/OQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ folder. When ordering IQ/OQ/PQ qualification folders and associated IQ/OQ/PQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ/PQ folder.

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