

# Model KB 720 | Refrigerated incubators with powerful compressor cooling

The most versatile among the refrigerated incubators for microorganisms: The BINDER KB series refrigerated incubator controls temperature ranges of -10 °C to 100 °C. With its comprehensive program functions, this refrigerated incubator offers a wide range of capabilities and delivers reproducible test results.

### **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



- Temperature range: -10 °C to +100 °C
- APT.line™ preheating chamber technology
- Up to 30% lower energy consumption compared to the previous model
- Refrigeration with compressor refrigerated 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 1288o) with visual and acoustic alarm
- Computer interface: Ethernet

### **ORDERING INFORMATION**

Interior volume [cu.ft.]	Voltage	Option model	Version	ArtNo.
24.6	200240 V 1~ 50/60 Hz	Chandard	KB720-230V	9020-0204
		Standard	KB720UL-240V	9020-0306



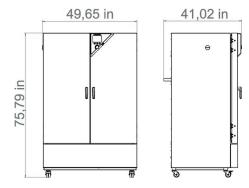
## **TECHNICAL DATA**

Description	KB720-230V1	KB720UL-240V1
Article Number	9020-0204	9020-0306
Performance Data Temperature		
Temperature range	-10100	-10100
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~
Measures		
Interior volume [cu.ft.]	24.6	24.6
Net weight of the unit (empty) [lbs]	681	681
Permitted load [lbs]	331	331
Load per rack [lbs]	99	99
Wall clearance back [in]	3.94	3.94
Wall clearance sidewise [in]	3.94	3.94
Internal Dimensions		
Width [in]	38.22	38.22
Height [in]	49.3	49.3
Depth [in]	22.69	22.69
Doors		
Inner doors	2	2
Unit doors	2	2
Housing dimensions not incl. fittings and connections		
Width net [in]	49.3	49.3
Height net [in]	75.8	75.8
Depth net [in]	34.87	34.87
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

<sup>1</sup> 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**

Description	*	ArtNo.
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
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
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
temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1598
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
with visual alarm (DIN 12880)	-	8012-1081
lockable door handle	-	8012-1777
additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-1079
positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system	-	8012-0673
	left 30 mm 50 mm right 30 mm 50 mm top 30 mm 50 mm 100 mm for temperature (±2 °C), accessible via 6-pin DIN socket (max. 24 V - 2.5 A), with audible signal that can be switched off for temperature; for extending the measurement in center of chamber to include another test temperature for temperature, measurement in center of chamber at specified temperature temperature measurement incl. certificate and 27 measuring points at specified temperature temperature measurement incl. certificate, 15-18 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature temperature measurement incl. certificate, 9 measuring points at specified temperature with visual alarm (DIN 12880) lockable door handle additional flexible Pt 100, interior, for displaying the temperature on the unit display positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device	left 30 mm

<sup>\*</sup> Notes > See last page

# **ACCESSORIES**

Designation	Description	*	ArtNo.	
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	

<sup>\*</sup> Notes > See last page



Designation	Description	*	ArtNo.
	Multi Management Software APT-COM™		
Multi Management	version 4, BASIC edition	-	9053-0039
Software	version 4, GLP edition	-	9053-0042
	version 4, PROFESSIONAL edition	-	9053-0040
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
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	-	8012-2051
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	-	8009-048
WLAN kit	The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service.	-	8500-0164

<sup>\*</sup> Notes > See last page

# **SERVICES**

Designation	Description	*	ArtNo.
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)	05	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
Maintenance services			
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	05	DL20-0710
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	05	DL20-0910
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	05	DL20-0200
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	05	DL20-0810
Calibration services			
Temperature calibration	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	03, 04, 05	DL30-0102
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109

<sup>\*</sup> Notes > See last page



Designation	Description	*	ArtNo.
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			
Warranty extension from 2 to 3 years	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0010

<sup>\*</sup> Notes > See last page



#### **NOTES**

- 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
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard.
- 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).

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