

Model KB 115 | Cooling incubators with compressor technology

The powerful virtuoso in cooling incubators for microorganisms: the KB masters temperature ranges from -10 °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 115



Model 115

MAIN FEATURES

- Temperature range: -10 °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
- · Adjustable fan speed
- · Controller with time-segment and real-time programming
- Inner door made of tempered safety glass
- · 2 stainless steel racks
- · Stackable
- 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.
115	230 V 1~ ph 50 Hz	Standard	KB115-230V	9020-0397
110	120 V 1~ ph 60 Hz	Standard		9020-0398

TECHNICAL DATA

Description	KB115-230V ¹	KB115UL-120V ¹	
Article Number	9020-0397	9020-0398	
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]	2	2	

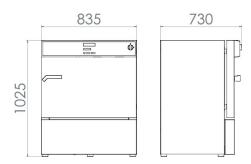
¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended wall clearances 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.



Description	KB115-230V ¹	KB115UL-120V ¹
Article Number	9020-0397	9020-0398
Electrical data		
Rated Voltage [V]	230	120
Power frequency [Hz]	50	60
Nominal power [kW]	0.7	0.7
Unit fuse [A]	10	12.5
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume [L]	115	115
Net weight of the unit (empty) [kg]	105	105
Permitted load [kg]	50	50
Load per rack [kg]	20	20
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	100	100
Internal Dimensions		
Width [mm]	600	600
Height [mm]	480	480
Depth [mm]	400	400
Doors		
Inner doors	1	1
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [mm]	835	835
Height net [mm]	1025	1025
Depth net [mm]	650	650
Environment-specific data		
Energy consumption at 37 °C [Wh/h]	75	75
Sound-pressure level [dB(A)]	49	49
Fixtures		
Number of shelves (std./max.)	2/5	2/5

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

back		
10 mm	01	8012-0395
30 mm	01	8012-1292
50 mm	01	8012-1294
left		
10 mm	01	8012-0393
30 mm	01	8012-1157
right		
10 mm	01	8012-0392
30 mm	01	8012-1154
top		
10 mm	01	8012-0391
30 mm	01	8012-1151
50 mm	01	8012-1160
100 mm	01, 10	8012-1167
for temperature (±2 °C), accessible via 6-pin DIN socket (max. 24 V - 2.5 A), with audible signal that can be switched off	-	8012-1082
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)	-	8012-1080
lockable door handle	-	8012-1773
with 15 W light bulb		
120 V option model	_	8012-1068
230 V option model	02	8012-1069
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	8012-1074
additional flexible Pt 100, interior, for displaying the temperature on the unit display	_	8012-1078
positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system	-	8012-0288
	30 mm 50 mm left 10 mm 30 mm right 10 mm 30 mm top 10 mm 30 mm top 10 mm 30 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 with 15 W light bulb 120 V option model 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) 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	30 mm 01 50 mm 01 left 01 10 mm 01 30 mm 01 right 01 10 mm 01 30 mm 01 top 01 10 mm 01 30 mm 01 50 mm 01 100 mm 01 50 mm 01 10 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 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 - with visual alarm (DIN 12880) - lockable door handle - vith 5W light bulb - 120 V option model 02 230 V option model 02

^{*} Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
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-	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.		
Edition	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
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

^{*} Notes > See last page



Designation	Description	*	ArtNo.
	Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz		
I ED Kalak harra	Basic set 300, length 30 cm	-	8012-1107
	Basic set 500, length 50 cm	-	8012-110
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	-	8012-171
	Expansion set 500, length 50 cm	-	8012-171
H-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-001
	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	-	7057-000
Qualification documents	Hard copy inside folder	-	7007-000
Qualification documents	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	-	7057-000
	Hard copy inside folder	-	7007-000
Rack	stainless steel	-	6004-000
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-053
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-070
Rubber pads	set anti-slip feet	-	8012-188
Shelf, perforated	Stainless steel	-	6004-003
able on castors	stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm	-	9051-001
Notes Coolect page			

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Unit installation	Unpacking and setting up of unit, connecting to existing connections, and checking function	13, 18	DL10-0100
Unit instructions	Unit function instructions for operation and programming of the controller	18	DL10-0500
Preventive maintenance			
Maintenance	Functional testing of all electrical and mechanical components, short calibration, documentation in the maintenance schedule	14, 18	DL20-0200
Calibration services			
	Expansion – including certificate, each additional measuring point in center of chamber at specified test temperature	14, 16, 17, 18	DL30-0102
Temperature calibration	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, 18 measuring points	Temperature measurement with 18 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0109
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	15, 18	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	15, 18	DL44-0500
Warranty service			
Warranty extension from 2 to 3 years	The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded	-	DL01-8041
Warranty extension from 2 to 5 years	The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded	_	DL01-8042

^{*} 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.
- 02 UL mark is not granted when this option is used.
- Heat resistant only to max. 200 °C. 03
- Only available on units rated for 230 V.
- The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting.
- 10 Not available on 23-liter units.
- Not available on 23- or 53-liter units.

 Only available on units rated for 230 V or 400 V. 11 12
- 13 Installation and connections take place at unit location; transport within the company only upon consultation.
- We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory.
- Calibration is performed according to the BINDER factory standard. 17
- 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 18 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter.

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