Model KB 130 | Cooling incubators with a large temperature range

The powerful virtuoso in cooling incubators for microorganisms: KB units are able to incubate with exceptional precision even when fully loaded, feature a hot-air disinfection routine, and can be programmed for weekend operation with ease. The new KB unit consumes as much as 40% less energy than the previous model.

BENEFITS

- Assured: highly precise incubation conditions thanks to power reserves
- Reliable: failsafe operation over the long term thanks to proven compressor technology and interior made of stainless steel
- Smart: hot-air disinfection and easy programming of a second set temperature
- Economical: up to 40% lower energy consumption than the previous model thanks to modern inverter cooling technology



Model 130



Model 130

IMPORTANT FEATURES

- Temperature range: o°C to +70°C
- Proven APT.line[™] preheating chamber technology
- Up to 40% lower energy consumption compared to the previous model
- Energy-efficient cooling with modern inverter cooling unit
- Cooling with climate-neutral R-600a refrigerant
- Door heating to prevent condensation
- Robust housing design with HIT sandwich technology
- Interior made completely of stainless steel
- Inner doors made of metal oxide-coated safety glass
- Two racks made of stainless steel

- Large access port with silicone plug
- Tabletop units (up to model 130) are stackable with stacking adapter
- Floor-standing units (from model 260) featuring robust twin casters, with brakes at the front
- Simple programming of a second set temperature value
- 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

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model KB 130					
	220240 V 1~ 50/60 Hz -16,0 A	CEE 7/7	Standard	KB130-230V	9020-0472
127	120 V 1~ 50/60 Hz -16,0 A	NEMA 5-20	Standard	KB130UL-120V	9020-0500

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TECHNICAL DATA

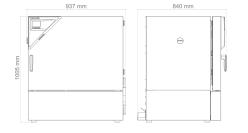
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Data		
Designation	KB130-230V	KB130UL-120V
Article Number	9020-0472	9020-0500
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	070 °C	o70 °C
Temperature uniformity at 37°C	0.2 ± K	0.2 ± K
Temperature fluctuation at 37°C	0.1 ± K	0.1 ± K
Max. heat compensation at 37°C	270 W	270 W
Recovery time after door was opened for 30 s at 37°C	3 min	3 min
Electrical data		
Rated Voltage	220240 V	120 V
Power frequency	50/60 Hz	50/60 Hz
Nominal power	1,2 KW	1,2 kW
Unit fuse	16,0 A	16,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	127 L	127 L
Net weight of the unit (empty)	124 kg	124 kg
Load per rack	25 kg	25 kg
Permitted load	50 kg	50 kg
Wall clearance back	100 mm	100 mm
Wall clearance sidewise	100 mm	100 mm
Housing dimensions not incl. fittings and connections		
Width net	900 mm	900 mm
Height net	1,005 mm	1,005 mm
Depth net	710 mm	710 mm
Internal Dimensions		
Interior width	656 mm	656 mm
Interior height	500 mm	500 mm



Interior depth	386 mm	386 mm
Inner doors	1	1
Unit doors	1	1
Environment-specific data		
Sound-pressure level at 25°C	47 dB(A)	47 dB(A)
Energy consumption at 37°C	125 Wh/h	155 Wh/h
Fixtures		
Number of shelves (std./max.)	2/6	2/6

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	KB 130	*	ArtNo.
	left			
	30 mm	•	01	8012-2465
	50 mm	•	01	8012-2466
	right			
A	30 mm	•	01	8012-2468
Access port with silicone plug	50 mm	•	01	8012-2469
	top			
	30 mm	•	01	8012-2497
	50 mm	•	01	8012-2471
	100 mm	•	01	8012-2472
Alarm output, zero-voltage	Accessible via 3-pin clamping sleeve (max. 24 V - 2.5 A), with acoustic signal that can be switched off	•	-	8012-2370

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Designation	Description	KB 130	*	ArtNo.
Analog output 4-20 mA	for temperature values (output not adjustable)	•	-	8012-2371
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	-	8012-2372
	for temperature, measurement in center of chamber at specified temperature	•	-	8012-2571
Calibration certificate,	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-2376
temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-2380
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-2424
Door lock	lockable door handle	•	-	8012-2529
Door lock, electromechanical	can be opened with PIN code via controller	•	-	8012-2531
Inner chamber, reinforced	max. total load 100 kg	•	-	8012-2506
Interior lighting	With climate-resistant LEDs, switches when the unit door is opened	•	-	8012-2559
Specimen temperature display	Flexible Pt 100 indoor temperature sensor, for object temperature display or control	•	-	8012-2549

ACCESSORIES

			ArtNo.
for simple logging and documentation requirements with up to 5 networked units.			
version 4, BASIC edition	•	-	9053-0039
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
convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
version 4, PROFESSIONAL edition	•	-	9053-0040
With swivel casters, for mobile installation or leveling of the unit or stack of units	•	-	9051-0045
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
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
_	version 4, BASIC 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 convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. version 4, PROFESSIONAL edition With swivel casters, for mobile installation or leveling of the unit or stack of units 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 Basic set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars	version 4, BASIC 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 . convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. . version 4, PROFESSIONAL edition . With swivel casters, for mobile installation or leveling of the unit or stack of units . 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 . Basic set 500, length 50 cm . Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars .	version 4, BASIC 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 • • . convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. • . version 4, PROFESSIONAL edition • • . With swivel casters, for mobile installation or leveling of the unit or stack of units • . Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz . . Basic set 500, length 30 cm • • . . Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars . .

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Designation	Description	KB 130	*	ArtNo.
	Expansion set 500, length 50 cm	•	-	8012-1717
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
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Reinforced rack	Load-bearing capacity 50 kg	•	-	8012-2412
Chalf real, parforeted	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Shelf rack, perforated	Load-bearing capacity 25 kg	•	-	8012-2406
Stacking adapter	For safe stacking of two identical units	•	-	9051-0048
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Standard rack	Load-bearing capacity 25 kg	•		8012-2389

SERVICES

Description	*	ArtNo.
Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	-	DL30-0135
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 with 9 measuring points with a set value specified by the user, including certificate	-	DL30-0109
Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	-	DL30-0118
Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	-	DL30-0127
	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate Temperature measurement with 9 measuring points with a set value specified by the user, including certificate Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate . Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate . Temperature measurement with 9 measuring points with a set value specified by the user, including certificate . Temperature measurement with 18 measuring points with a set value specified by the user, including certificate . Temperature measurement with 18 measuring points with a set value specified by the user, including certificate . Temperature measurement with 18 measuring points with a set value specified by the user, including certificate . Temperature measurement with 18 measuring points with a set value specified by the user, including certificate .

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Designation	Description	*	ArtNo.
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	05	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.
- O5 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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