



Model KB 65 | 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.





Model 65 Model 65

IMPORTANT FEATURES

- Temperature range: 0°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
- Housing design with HIT 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
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- 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 65					
62	220240 V 1~ 50/60 Hz -16,0 A	CEE 7/7	Standard	KB065-230V	9020-0471
63	120 V 1∼ 50/60 Hz -16,0 A	NEMA 5-20	Standard	KB065UL-120V	9020-0491



TECHNICAL DATA

TECHNICAL DATA		
Data		
Designation	KB065-230V	KB065UL-120V
Article Number	9020-0471	9020-0491
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	070 ℃	070 ℃
Temperature uniformity at 37°C	0.2 ± K	0.2 ± K
Temperature fluctuation at 37°C	0.2 ± K	0.2 ± K
Max. heat compensation at 37°C	160 W	160 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	0,9 kW	0,9 kW
Unit fuse	16,0 A	16,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	63 L	63 L
Net weight of the unit (empty)	95 kg	95 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	650 mm	650 mm
Height net	905 mm	905 mm
Depth net	710 mm	710 mm
Internal Dimensions		
Interior width	406 mm	406 mm
Interior height	400 mm	400 mm



Interior depth	386 mm	386 mm
Inner doors	1	1
Unit doors	1	1
Environment-specific data		
Energy consumption at 37°C	90 Wh/h	100 Wh/h
Energy consumption at 37°C Fixtures	90 Wh/h	100 Wh/h

All technical data is specified for unloaded units with standard equipment at an ambient temperature of $\pm 2^{\circ}$ C and a power supply voltage fluctuation of $\pm 10^{\circ}$ M. 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 65	*	ArtNo.
	left			
	30 mm	•	01	8012-2465
	50 mm	•	01	8012-2466
	100 mm	•	01	8012-2467
	right			
Access port with silicone plug	30 mm	•	01	8012-2468
	50 mm	•	01	8012-2469
	100 mm	•	01	8012-2470
	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



Designation	Description		*	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	•	-	8012-2505
Interior lighting	With climate-resistant LEDs, switches when the unit door is opened	•	-	8012-2555
Specimen temperature display	Flexible Pt 100 indoor temperature sensor, for object temperature display or control	•	-	8012-2549
Designation	for simple logging and documentation requirements with up to 5 networked units.	KB 65	*	ArtNo.
ACCESSORIES Decignation	Description	KB 65	*	Art -No
APT-COM™ 4 BASIC-Edition	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.			
ALT COST TOLI Editori	version 4, GLP edition	•	_	9053-0042
APT-COM™ 4 PROFESSIONAL-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
Edition	version 4, PROFESSIONAL edition	•	-	9053-0040
Base	With swivel casters, for mobile installation or leveling of the unit or stack of units	•	-	9051-0055
	Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz			
LED light bars	Basic set 300, length 30 cm	•	-	8012-1107
LLD light build				
	Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars			
		•	-	8012-1716



Designation	Description		KB 65	,	* ArtNo.
	according to custo	ents – supporting documents for validation performed by customers, omer requirements, PQ section added to qualification folder IQ/OQ ; erature, CO_2 , O_2 – or pressure, depending on unit			
Qualification documents	Digital in PDF for	mat -	•		- 7057-0005
	Hard copy inside	folder	•	-	- 7007-0005
	of: IQ/OQ checklis	– supporting documents for validation performed by customers, consisting sts incl. calibration guide and comprehensive unit documentation; erature, CO ₂ , O ₂ , pressure, depending on unit			
	Digital in PDF for	mat	•		- 7057-0001
	Hard copy inside	folder	•		- 7007-0001
Shelf rack, perforated	Shelf rack in set w	ith pair of retaining rails (U rails), made entirely of stainless steel			
Shell rucky perforuted	Load-bearing cap	pacity 25 kg	•		- 8012-2405
Stacking adapter	For safe stacking o	of two identical units	•		9051-0056
Standard rack	Shelf rack in set w	ith pair of retaining rails (U rails), made entirely of stainless steel			
Standard rack	Load-bearing cap	pacity 25 kg	•		- 8012-2388
Designation		Description		*	ArtNo.
Calibration services					
Calibration certificate, tempera	tura -	Calibration of one (1) test temperature specified by the user in center of chambinolating certificate	er,	_	DL30-0135
Cambraton Certificate, tempera	ture	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, 9 measuring points		Temperature measurement with 9 measuring points with a set value specified the user, including certificate	by	_	DL30-0109
Temperature measurement, 18 measuring points		Temperature measurement with 18 measuring points with a set value specified the user, including certificate	by	-	DL30-0118
Temperature measurement, 27 measuring points		Temperature measurement with 27 measuring points with a set value specified the user, including certificate	by	-	DL30-0127
Installation services			_		
Unit commissioning		Connect the unit to the customer-side connections (electricity, water, wastewa gas), basic functions check, brief operating instructions. (excl.: unpacking, set 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	cion	-	DL10-0500
Maintenance contracts					
BRONZE 3-year maintenance contract		Maintenance service as contractually agreed, visual inspection of mechanical at electrical components, check of control response, 20% discount on spare pa		-	DL20-0720



Designation	Description	*	ArtNo.
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

BINDER Best conditions for your success

NOTES

On Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.

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