Model KB 115 | Cooling incubators with compressor technology

BENEFITS

- Safe and reproducible incubation conditions even at high environmental conditions
- Disinfection routine at 100 °C

MAIN FEATURES

- Temperature range: -5 °C to 100 °C
- APT.line™ preheating chamber technology
- Cooling with compressor cooling unit
- Adjustable fan speed
- Controller with time-segment and real-time programming
- Elapsed time indicator

- Inner door made of tempered safety glass
- 2 stainless steel racks
- Stackable
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: RS 422

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	Art.-No.
Model KB 115				
115	230 V 1~ 50 Hz	Standard	KB115-230V	9020-0242
	120 V 1~ 60 Hz	Standard	KB115UL-120V	9020-0253

TECHNICAL DATA

Description	KB115-230V	KB115UL-120V
Article Number	9020-0242	9020-0253
Performance Data Temperature		
Temperature range [°C]	-5…100	-5…100
Temperature variation at 40 °C [± K]	0.2	0.2
Temperature fluctuation at 40 °C [± K]	0.1	0.1
Heating-up time to 40 °C [min]	9	9
Recovery time after 30 seconds door open 90° aperture angle at 40 °C [min]	1	1
Electrical data		
Rated Voltage [V]	230	120
Power frequency [Hz]	50	60
Nominal power [kW]	0.46	0.46

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Description	KB115-230V	KB115UL-120V
Article Number	9020-0242	9020-0253
Unit fuse [A]	10	12.5
Phase (Nominal voltage)	1~	1~
Measures - Outer dimensions		
Width net [mm]	835	835
Height net [mm]	1025	1025
Depth net [mm]	650	650
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	100	160
Measures - Doors		
Inner doors	1	1
Unit doors	1	1
Measures - Internal Dimensions		
Width [mm]	600	600
Height [mm]	480	480
Depth [mm]	400	400
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
Environment-specific data		
Energy consumption at 40 °C	115 Wh/h	115 Wh/h
Sound-pressure level [dB(A)]	0	0
Fixtures		
Number of shelves (standard/maximum)	2/5	2/5

OPTIONS AND ACCESSORIES

Designation	Description	*	Art.-No.
Access port with silicone plug	10 mm, back	01	8012-0395
	10 mm, left	01	8012-0393
	10 mm, right	01	8012-0392
	10 mm, top	01	8012-0391
	30 mm, back	01	8012-0397
	30 mm, left	01	8012-0047
	30 mm, right	01	8012-0046
	30 mm, top	01	8012-0045
	50 mm, back	01	8012-0399
	50 mm, top	01	8012-0049
	100 mm, top	01, 10	8012-0053
Analog output, 4 – 20 mA	for temperature values (output not adjustable)	02	8012-0434
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	–	8012-0022
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	–	8012-0030
	temperature measurement incl. certificate and 27 measuring points at specified temperature	–	8012-0921
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	–	8012-0918
	temperature measurement incl. certificate, 9 measuring points at specified temperature	–	8012-0915
Cart	Cart – stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm	–	9051-0018

* Notes › See last page

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Designation	Description	*	Art.-No.
Class 3.3 independent temperature safety device	with visual alarm (DIN 12880)		
	120 V option model	–	8012-0456
	230 V option model	–	8012-0451
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	–	8012-0318
Interface converter	RS 422 cable set and RS 232 / RS 422 interface converter for connection to 10-way plug distributor or for connection to a unit		
	120 V, 60 Hz option model	–	8012-0557
	230 V, 50/60 Hz option model	–	8012-0556
	RS 422 cable set and RS 422 / Ethernet interface converter for connection to 10-way plug distributor or for connection to a unit		
	120 V, 60 Hz option model	–	8012-0405
	230 V, 50/60 Hz option model	–	8012-0380
Interface converter, USB / RS422	RS 422 cable set and RS 422 / USB interface converter for connection to 10-way plug distributor or for connection to a unit (USB-powered converter)	–	8012-0665
Interior lighting	with 15 W light bulb		
	120 V option model	–	8012-0361
	230 V option model	02	8012-0116
Interior socket	waterproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, coverable, with corresponding plug (nominal voltage; max. 500 W; max. 90 °C; protection class IP67)	07	8012-0077
Magnetic Pouch (A4)	insert pouch with magnetic strip	–	1007-0065
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	–	1002-0016
Pt 100 temperature sensor	additional flexible Pt 100, interior, with external connection incl. LEMO connector (3-pin)	–	8012-0115
Rack	stainless steel	–	6004-0008
Rack accessories	Rack accessories – fasteners (1 set of 4) for additional security of racks	–	8012-0531
Rack, reinforced	stainless steel, with 1 set of 4 fasteners, max. load 70 kg	–	8012-0700
RS 422 interface	modular plug distributor for 10 RS 422 interfaces	–	8012-0295
RS 422 interface, cable (15 m)	RS 422 connection cable (15 m) between plug distributor and RS 422 interface	–	5023-0036
RS 422 interface, cable (50 m)	RS 422 extension cable (50 m) between interface converter and unit or RS 232 / RS 422 plug distributor	–	5023-0117
Rubber pads	set of 4 anti-slip feet, for safe stacking of unit	10	8012-0001
Shelf, perforated	stainless steel	–	6004-0030
Shelf, reinforced	positioned at bottom level, max. load 67 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system	–	8012-0288
Software	APT-COM™ communications software		
	version 2 to 3, GLP edition	19	9053-0016
	version 3, BASIC edition	19	9053-0014
	version 3, GLP edition	19	9053-0015
	version 3, STANDARD edition	19	9053-0013
	APT-COM™ communications software, price: for free		
	version 3, GLP DEMO Edition	19	9053-0008
Zero voltage relay contacts	for controlling 3 relay contacts via program regulators, accessible via 6-pin DIN socket (max. 24 V - 2.5 A)		
	120 V option model	–	8012-0474
	230 V option model	–	8012-0473

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SERVICES

Designation	Description	*	Art.-No.
Installation services			
Installation	and set up of unit at operating location, connect to existing connections	13, 18	DL100100
Instruction	unit function instructions for operation and programming of the controller	18	DL100500
Preventive maintenance			
Preventive maintenance	Executive of equipment inspection according to maintenance plan	14, 18	DL200300
Calibration services			
Calibration temperature	including certificate, one measuring point in center of chamber at specified temperature	14, 16, 17, 18	DL300101
Temperature measurement 18 measuring points	including certificate, 18 measuring points at specified temperature	14, 16, 17, 18	DL300118
Temperature measurement 27 measuring points	including certificate, 27 measuring points at specified temperature	14, 16, 17, 18	DL300127
Temperature measurement 9 measuring points	including certificate, 9 measuring points at specified temperature	14, 16, 17, 18	DL300109
Validation services			
Execution of IQ/OQ	in accordance with qualification folder	15, 18, 20	DL410200
Execution of IQ/OQ/PQ	in accordance with customer's requirement, price: on request	15, 18	DL440500
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	–	DL018041
Extension of the warranty from 2 to 5 years	beginning with the date of delivery, wearing parts are not included	–	DL018042

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NOTES

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