Model KT 170 | Cooling incubators with Peltier technology

The KT series combines outstanding performance with impressive energy efficiency and environmental friendliness. The cooled incubators of the KT series are state-of-the-art in application and protect the samples.

BENEFITS

- Safe and reproducible incubation conditions even at high environmental conditions
- Hot air disinfection at 100°C
- Energy efficient, environmentally friendly and secure



Model 170



Model 170

IMPORTANT FEATURES

- Temperature range: +4 °C to +100 °C
- APT.line™ preheating chamber technology
- Adjustable fan speed
- Electric cooling with Peltier module
- Controller with time-segment and real-time programming
- Display via LCD monitor
- Input via pushbutton/rotary knob
- Inner door made of tempered safety glass
- 2 stainless steel racks
- Stackable with KT 115
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: Ethernet
- Data recording and USB interface

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	Art.-No.
Model KT 170					
163	200...240 V 1~ 50/60 Hz -10,0 A	CEE 7/7	Standard	KT170-230V	9020-0289
	100...120 V 1~ 50/60 Hz -10,0 A	NEMA 5-20	Standard	KT170UL-120V	9020-0310

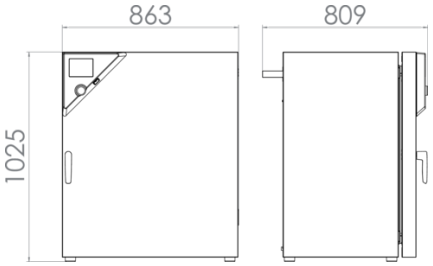
TECHNICAL DATA

Data		
Article Number	9020-0289	9020-0310
Designation	KT170-230V	KT170UL-120V
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	4...100 °C	4...100 °C
Temperature uniformity at 37°C	0.4 ± K	0.4 ± K
Temperature fluctuation at 37°C	0.1 ± K	0.1 ± K
Max. heat compensation at 40°C	100 W	100 W
Recovery time after door was opened for 30 s at 37°C	3 min	3 min
Electrical data		
Rated Voltage	200...240 V	100...120 V
Power frequency	50/60 Hz	50/60 Hz
Nominal power	0,8 kW	0,8 kW
Unit fuse	10,0 A	10,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	163 L	163 L
Net weight of the unit (empty)	102 kg	102 kg
Load per rack	30 kg	30 kg
Permitted load	120 kg	120 kg
Wall clearance back	100 mm	100 mm
Wall clearance sidewise	240 mm	240 mm
Housing dimensions not incl. fittings and connections		
Width net	860 mm	860 mm
Height net	1,025 mm	1,025 mm
Depth net	655 mm	655 mm
Internal Dimensions		
Interior width	600 mm	600 mm
Interior height	765 mm	765 mm

Interior depth	355 mm	355 mm
Inner doors	1	1
Unit doors	1	1
Environment-specific data		
Sound-pressure level	48 dB(A)	48 dB(A)
Energy consumption at 25°C	80 Wh/h	80 Wh/h
Energy consumption at 37°C	80 Wh/h	80 Wh/h
Fixtures		
Number of shelves (std./max.)	2/10	2/10

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 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	KT 170	*	Art.-No.
	left			
	10 mm	•	01	8012-1290
	30 mm	•	01	8012-1158
	50 mm	•	01	8012-1165
	right			
Access port with silicone plug	10 mm	•	01	8012-1289
	30 mm	•	01	8012-1155
	50 mm	•	01	8012-1163
	top			
	10 mm	•	01	8012-1288
	30 mm	•	01	8012-1152

Designation	Description	KT 170	*	Art.-No.
	50 mm	•	01	8012-1161
	100 mm	•	01	8012-1168
Alarm output, zero-voltage	accessible via 6-pin DIN socket (max. 24 V - 2.5 A)	•	-	8012-1002
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	•	-	8012-1122
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	•	-	8012-1141
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-1558
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-1579
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-1600
Door lock	lockable door handle	•	-	8012-1668
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	•	-	8012-0994
Shelf, reinforced	positioned at bottom level, max. load 45 kg, with additional attachment for operation of shaking device, stirring device or roller bottle system	•	-	8012-0817

ACCESSORIES

Designation	Description	KT 170	*	Art.-No.
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units.			
	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.			
	version 4, GLP edition	•	-	9053-0042
APT-COM™ 4 PROFESSIONAL-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
	version 4, PROFESSIONAL edition	•	-	9053-0040
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
	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

Designation	Description	KT 170	*	Art.-No.
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
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	•	-	7057-0005
	Hard copy inside folder	•	-	7007-0005
	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
Rack	stainless steel	•	-	8012-2049
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	•	-	8012-0828
Rack accessories	fasteners (1 set of 4) for additional security of racks	•	-	8012-2280
Rubber pads	set anti-slip feet	•	-	8012-2030
Table on castors	stable cart, casters with locking brakes, dimensions: W 1,000 x D 800 x H 780 mm	•	-	9051-0018

SERVICES

Designation	Description	*	Art.-No.
Calibration services			
Calibration certificate, temperature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	05	DL30-0135
	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	05	DL30-0102
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	05	DL30-0109
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	05	DL30-0127
Installation services			
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)	05	DL10-0170
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0550
Maintenance contracts			

Designation	Description	*	Art.-No.
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	DL20-0720
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	05	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	05	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	05	DL20-0604
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			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	05	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.

05 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).

BINDER GmbH
Tuttlingen, Germany
TEL +49 7462 2005 0
info@binder-world.com
www.binder-world.com

BINDER Inc.
Bohemia, NY, USA
TEL +1 631 224 4340
usa@binder-world.com
www.binder-world.us

BINDER Environmental Testing Equipment (Shanghai) Co., Ltd.
Shanghai, P.R. China
TEL +86 21 685 808 25
china@binder-world.com
www.binder-world.com