

COOLING CHAMBERS

Series KT: Cooling chambers 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.

Features:

- Temperature range +4 °C to 100 °C
- APT.line™ preheating chamber technology
- Adjustable fan speed
- Electrical 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
- Units up to 115 liters are stackable
- Access port with silicone plug from 240 liters
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Computer interface: Ethernet
- Data recording and USB interface



KT 053



KT 170

Technical data:

	KT053	KT115	KT170
	230V *	230V *	230V *
Article Number	9020-0311	9020-0313	9020-0289
Performance Data Temperature			
Temperature range [°C]	+4...100	+4...100	+4...100
Temperature variation at 37 °C [± K]	0,3	0,3	0,4
Temperature fluctuation at 37 °C [± K]	0,1	0,1	0,1
Recovery time after 30 seconds door open at 37 °C [min]	2	3	3
Electrical data			
Rated Voltage [V]	200...240	200...240	200...240
Power frequency [Hz]	50/60	50/60	50/60
Nominal power [kW]	0,4	0,7	0,8
Unit fuse [A]	10	10	10
Phase (Nominal voltage) [ph]	1~	1~	1~
Outer dimensions			
Width net [mm]	660	860	860
Height net [mm]	635	715	1025
Depth net [mm]	630	655	655
Wall clearance back [mm]	100	100	100
Wall clearance sidewise [mm]	240	240	240
Doors			
Inner doors	1	1	1
Unit doors	1	1	1
Internal Dimensions			
Width [mm]	400	600	600
Height [mm]	400	455	765
Depth [mm]	334	355	355
Further Dimension			
Interior volume [L]	53	102	163
Net weight of the unit (empty) [kg]	63	83	102
permitted load [kg]	40	100	120
Load per rack [kg]	15	30	30
Environment-specific data			
Energy consumption at 25 °C [Wh/h]	75	75	80
Energy consumption at 37 °C [Wh/h]	75	75	80
Sound-pressure level [dB(A)]	48	48	48
Fixtures			
Number of shelves (std./max.)	2 / 5	2 / 6	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 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.

Series KB: Cooling chambers with compressor technology

The most versatile among the cooled incubators: The KB series cooled incubator controls temperature ranges of 0/-10 °C to 100 °C.

With its comprehensive program functions, this cooled incubator offers a wide range of capabilities and delivers reproducible test results.

Features:

- Temperature range 0/-10 °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
- Operating hours counter
- Inner door made of tempered safety glass
- 2 stainless steel racks
- Units up to 115 liters are stackable
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm



KB 240



KB 240

Technical data:

	KB053	KB115	KB240	KB400	KB720
	230V *	230V *	230V *	230V *	230V *
Article Number	9020-0199	9020-0397	9020-0202	9020-0203	9020-204
Performance Data Temperature					
Temperature range [°C]	-10...100	-10...100	-10...100	-10...100	-10...100
Temperature variation at 37 °C [± K]	0,2	0,2	0,2	0,2	0,2
Temperature fluctuation at 37 °C [± K]	0,1	0,1	0,1	0,1	0,1
Recovery time after 30 seconds door open at 37 °C [min]	2	2	2	4	3
Electrical data					
Rated Voltage [V]	230	230	200...240	200...240	200...240
Power frequency [Hz]	50	50	50 / 60	50 / 60	50 / 60
Nominal power [kW]	0,6	0,7	1,2	1,4	2,3
Unit fuse [A]	10	10	16	16	16
Phase (Nominal voltage) [ph]	1~	1~	1~	1~	1~
Outer dimensions					
Width net [mm]	635	835	925	925	1250
Height net [mm]	835	1025	1465	1950	1925
Depth net [mm]	580	650	800	805	885
Wall clearance back [mm]	100	100	100	100	100
Wall clearance sidewise [mm]	100	100	100	100	100
Doors					
Inner doors	1	1	1	1	2
Unit doors	1	1	1	1	2
Internal Dimensions					
Width [mm]	400	600	650	650	970
Height [mm]	400	480	785	1270	1250
Depth [mm]	330	400	485	485	576
Further Dimension					
Interior volume [L]	53	115	247	400	698
Net weight of the unit (empty) [kg]	78	106	171	221	304
permitted load [kg]	40	50	100	120	150
Load per rack [kg]	15	20	30	30	45
Environment-specific data					
Energy consumption at 37 °C [Wh/h]	70	75	270	330	360
Energy consumption at 40 °C [Wh/h]					
Sound-pressure level [dB(A)]	49	49	53	53	53
Fixtures					
Number of shelves (std./max.)	2 / 4	2 / 5	2 / 9	2 / 15	2 / 15

* 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.

Series KB ECO: Constant cooling chambers with peltier temperature control system

The new series of cooling chambers guarantees homogeneous constant temperature conditions, low noise and excellent energy efficiency through the combination of advanced technologies: Peltier cooling & heating system with patented heat dissipation, digitally controlled „APT.line“ preheating chamber technology and forced air circulation through controllable fan.

Features:

- Temperature range 0°C to 70 °C
- APT.line™ preheating chamber technology
- Microprocessor controller with LCD display and integrated real-time clock
- Peltier cooling & heating system: precise and fast-acting, vibration-free, low-noise
- Use of cycle-resistant high-performance Peltier elements with long service life
- Environmentally friendly operation without refrigerant
- Forced air circulation in the interior through adjustable turbine
- Self-test: automated check of proper unit function
- Ethernet communication interface for APT-COM® DataControlSystem
- Inner glass door with seal
- Cable entry Ø 30 mm, left-hand side
- Set of castors (4 castors, with parking brake)



KB ECO 240

Advantages:

- Reliable due to uncompromisingly fail-safe operation.
- Smart, as highly customisable to individual customer requirements thanks to a wide range of accessories.
- Economical due to lowest energy consumption thanks to optimised Peltier technology.



KB ECO 1020

Technical data:

	KB ECO 240	KB ECO 720	KB ECO 1020
	230V *	230V *	230V *
Article Number	9020-0423	9020-0424	9020-0425
Performance Data Temperature			
Temperature range (max. 26°C below ambient temperature) [°C]	-	0...+70	0...+70
Temperature range (max. 28°C below ambient temperature) [°C]	0...+70	-	-
Temperature variation at 37 °C [± K]	0,1	0,1	0,1
Temperature fluctuation at 37 °C [± K]	0,1	0,1	0,1
Recovery time after 30 seconds door open at 37 °C [min]	4	4	3
Electrical data			
Rated Voltage [V]	200...230	200...230	200...230
Power frequency [Hz]	50 / 60	50 / 60	50 / 60
Nominal power [kW]	0,9	1,3	1,3
Unit fuse [A]	16	16	16
Phase (Nominal voltage) [ph]	1~	1~	1~
Outer dimensions			
Width net [mm]	925	1250	1250
Height net [mm]	1461	1925	1925
Depth net [mm]	796	885	1149
Wall clearance back [mm]	100	100	100
Wall clearance sidewise [mm]	100	100	100
Doors			
Inner doors	1	2	2
Unit doors	1	2	2
Internal Dimensions			
Width [mm]	650	973	973
Height [mm]	785	1250	1250
Depth [mm]	485	576	836
Further Dimension			
Interior volume [L]	247	700	1020
Net weight of the unit (empty) [kg]	152	272	327
permitted load [kg]	100	150	150
Load per rack [kg]	30	45	45
Environment-specific data			
Energy consumption at 4 °C [Wh/h]	100	185	190
Energy consumption at 37 °C [Wh/h]	65	105	105
Sound-pressure level [dB(A)]	43	47	47
Fixtures			
Number of shelves (std./max.)	2 / 9	2 / 15	2 / 15

* 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 part 2:2015 and 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.