BINDER
Best conditions for your success

brightside
SCIENTIFIC PTY LTD

Data Sheet Series KB

Series feature

Cooling incubators with compressor technology

Important characteristics

* Temperature range: -5 °C to 100 °C
* APT.line™ preheating chamber technology
* Up to 30% lower energy consumption compared to the previous model
* Cooling with compressor cooling unit
* Door heating system from 240 liters
* Adjustable fan speed
* Controller with time-segment and real-time programming
* 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 L
* Class 3.1 independent temperature safety device (DIN 12880) with visual and acoustic alarm
* Computer interface: Ethernet

Features

* Temperature range: -5 °C to 100 °C
* Up to 30% lower energy consumption compared to the previous model
* Cooling with compressor cooling unit
* Adjustable fan speed
* Controller with time-segment and real-time programming
* Inner door made of tempered safety glass

Text of Series

The powerful virtuoso in cooling incubators for microorganisms: the KB masters temperature ranges from -5 °C to 100 °C. The new KB series consumes up to 30% less energy compared to its predecessor. With its extensive programming options and homogenous incubation conditions even when fully loaded, this cooling incubator covers a wide range of applications.

Description	KB023-230V *	KB053-230V *	KB115-230V *	KB240-230V *	KB400-230V *	KB720-230V *
Article Number	9020-0112	9020-0199	9020-0397	9020-0202	9020-0203	9020-0204
Performance Data Temperature						
Temperature range [°C]	0…100	-5…100	-5…100	-5…100	-5…100	-5…100
Temperature variation at 37 °C [± K]	0.3	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	0.1
Heating-up time to 37 °C [min]	11	5				
Recovery time after 30 seconds door op	2	2	2	2	4	3
Electrical data						
Rated Voltage [V]	230	230	230	200…240	200…240	200…240
Power frequency [Hz]	50/60	50	50	50	50/60	50/60
Nominal power [kW]	0.3	0.6	0.7	1.2	1.4	2.3
Unit fuse [A]	10	10	10	16	16	16
Phase (Nominal voltage) [ph]	1	1	1	1	1	1
Outer dimensions						
Width net [mm]	435	635	835	925	925	1250
Height net [mm]	620	835	1025	1465	1950	1925
Depth net [mm]	520	580	650	800	805	885
Wall clearance back [mm]	100	100	100	100	100	100
Wall clearance sidewise [mm]	100	100	100	100	100	100
Doors						
Inner doors	1	1	1	1	1	2
Unit doors	1	1	1	1	1	2
Internal Dimensions						
Width [mm]	222	400	600	650	650	970
Height [mm]	330	400	480	785	1270	1250
Depth [mm]	277	330	400	485	485	576
Measures						
Interior volume [L]	20	53	115	247	400	698
Net weight of the unit (empty) [kg]	44	78	106	171	221	304
permitted load [kg]	25	40	50	100	120	150
Load per rack [kg]	10	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]	60					
Sound-pressure level [dB(A)]	47	49	49	53	53	53
Fixtures						
Number of shelves (std./max.)	2/3	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.