

# Model KB ECO 240 | Refrigerated incubators With environmentally friendly thermoelectric cooling

Thanks to thermoelectric cooling technology with patented heat dissipation, the new KB ECO cooling incubator is one of the most energy-efficient cooling incubator on the market.

The thermoelectric cooling technology means the KB ECO series is also very quiet during operation.

# BENEFITS

- Safe thanks to uniform incubation, even under full load
- Reliable thanks to failsafe operation without compromise
- Intelligent thanks to unit self-test for comprehensive status analysis
- Economical, as energy consumption is minimal thanks to optimized thermoelectric cooling





Model 240

#### model 24

#### MAIN FEATURES

- Temperature range: o °C through +70 °C (max. 26 °C below the ambient temperature)
- APT.line<sup>™</sup> preheating chamber technology
- Electric temperature control thanks to thermoelectric cooling module with innovative heat dissipation
- Inner door made of tempered safety glass
- Inner chamber made completely of stainless steel
- 2 rack, stainless steel

#### • Access port with silicone plug Ø 30 mm

- LCD to display temperature along with additional information and alarms
- Internal data logger, measured values can be read out in open format via USB
- · Unit self-test for comprehensive status analysis

# **ORDERING INFORMATION**

Interior volume [cu.ft.]	Voltage	Option model	Version	ArtNo.
8.7	200230 V 1~ 50/60 Hz	Standard	KBECO240-230V	9020-0423
	100120 V 1~ 50/60 Hz	Standard	KBECO240UL-120V	9020-0426



## **TECHNICAL DATA**

Description	KBECO240-230V <sup>1</sup>	KBECO240UL-120V <sup>1</sup>
Article Number	9020-0423	9020-0426
Performance Data Temperature		
Temperature range (max. 28 °C under ambient temperature) [°C]	070	070
Temperature variation at 37 °C [± K]	0.1	0.1
Temperature fluctuation at 37 °C [± K]	0.1	0.1
Max. heat compensation at 37 °C [W]	350	350
Recovery time after 30 seconds door open at 37 °C [min]	3	3
Electrical data		
Rated Voltage [V]	200230	100120
Power frequency [Hz]	50/60	50/60
Nominal power [kW]	0.9	0.9
Unit fuse [A]	16	16
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume [cu.ft.]	8.7	8.7
Net weight of the unit (empty) [lbs]	335	335
Permitted load [lbs]	220	220
Load per rack [lbs]	66	66
Wall clearance back [in]	3.94	3.94
Wall clearance sidewise [in]	3.94	3.94
Internal Dimensions		
Width [in]	25.61	25.61
Height [in]	30.93	30.93
Depth [in]	19.11	19.11
Doors		
Inner doors	1	1
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [in]	36.45	36.45
Height net [in]	57.6	57.6
Depth net [in]	31.36	31.36
Environment-specific data		
Energy consumption at 37 °C [Wh/h]	65	65
Sound-pressure level [dB(A)]	43	43
Fixtures		
Number of shelves (std./max.)	2/9	2/9

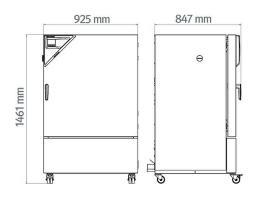
1 All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % 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.

For model KB ECO 240, temperature differences are possible up to 28 °C below ambient temperature; for models KB ECO 720 and KB ECO 1020, temperature differences are possible up to 26 °C below ambient temperature.

The lowest operating temperature for all units is o °C irrespective of the ambient temperature.



#### DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



# ACCESSORIES

Designation	Description	*	ArtNo.
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
Multi Management Software	Multi Management Software APT-COM™		
	version 4, BASIC edition	-	9053-003
	version 4, GLP edition	-	9053-004
	version 4, PROFESSIONAL edition	-	9053-004
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-001
	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature and humidity values		
	Digital in PDF format	-	7057-0002
Qualification documents	Hard copy inside folder	-	7007-000
	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 and humidity values		
	Digital in PDF format	-	7057-000
	Hard copy inside folder	-	7007-000
Rack	stainless steel	-	8012-205
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-063
Shelf, perforated	Stainless steel	-	6004-004
* Notes > See last page			

\* Notes > See last page

### SERVICES

Designation	Description	*	ArtNo.
Installation services			
Unit installation	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	DL10-0100
Unit instructions	t instructions Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming		DL10-0500
Maintenance services			
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	DL20-0710
GOLD 3-year maintenance contract wear parts, calibration of one test temperature specified by the user in the center of the usable space, including certificate		05	DL20-0910

\* Notes > See last page

# Data Sheet Model KB ECO 240

# BINDER

Designation	Description	*	ArtNo.
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	DL20-0200
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	DL20-0810
Calibration services			
Temperature calibration	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	03, 04, 05	DL30-0102
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
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

\* Notes > See last page



#### NOTES

- Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge. UL mark is not granted when this option is used. 01
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard. 04
- 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).

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