

Model KBF-S 240 | Constant climate chambers with large temperature / humidity range

The Solid.Line KBF-S climate chamber is a custom-made solution for long-term testing and accelerated stability testing of pharmaceutical products in accordance with the ICH Q1A guideline. The corrosion-free and condensation-free interior also ensures exceptionally stable temperature and moisture levels, even when fully loaded.

BENEFITS

- Safe thanks to climatic homogeneity that far exceeds the accuracy required by ICH guidelines, even with a fully loaded unit.
- Reliable thanks to failsafe operation without compromise. The interior and Longlife evaporator plate are made entirely from stainless steel.
- Smart, as a wide range of accessories makes it highly compatible for adaptation to specific customer requirements.
- Economical thanks to maximum effective volume which allows for 30% larger load compared to the competition.







Model 240

IMPORTANT FEATURES

- Temperature range: o °C to +70 °C
- Humidity range: 20% to 80% RH
- APT.line™ preheating chamber technology
- Humidity regulation with capacitive humidity sensor and steam humidification •
- LCD to display temperature and humidity along with additional information
- Internal data logger, measured values can be read out in open format via USB Computer interface: Ethernet
- Unit self-test for comprehensive status analysis

- · Inner chamber made completely of stainless steel
- 2 stainless steel racks, incl. shelf supports
- · Access port with silicone plug, 30 mm, left
- Robust twin casters with brakes, from 240 L
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- Independent water supply via tank

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model KBF-S 240					
	200230 V 1~ 50/60 Hz -16,0 A	CEE 7/7	Standard	KBFS240-230V	9020-0366
247	200240 V 1~ 50/60 Hz -16,0 A	NEMA 6-20	Standard	KBFS240UL-240V	9020-0367



TECHNICAL DATA

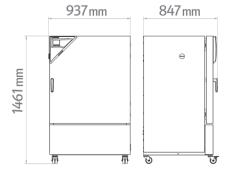
Data				
Designation	KBFS240-230V	KBFS240UL-240V		
Article Number	9020-0366	9020-0367		
Option model	Standard	Standard		
Performance Data Temperature				
Temperature range	o70 °C	o70 °C		
Max. heat compensation at 40°C	300 W	300 W		
Performance Data Climate				
Temperature range with humidity	1070 °C	1070 °C		
Humidity range	2080 % RH	2080 % RH		
Electrical data				
Rated Voltage	200230 V	200240 V		
Power frequency	50/60 Hz	50/60 Hz		
Nominal power	1,4 kW	1,4 kW		
Unit fuse	16,0 A	16,0 A		
Phase (Nominal voltage)	1~	1~		
Dimensions and weights				
Interior volume	247 L	247 L		
Net weight of the unit (empty)	161 kg	161 kg		
Load per rack	30 kg	30 kg		
Permitted load	100 kg	100 kg		
Wall clearance back	100 mm	100 mm		
Wall clearance sidewise	100 mm	100 mm		
Housing dimensions not incl. fittings and connections				
Width net	925 mm	925 mm		
Height net	1,460 mm	1,460 mm		
Depth net	800 mm	800 mm		
Internal Dimensions				
Interior width	650 mm	650 mm		
Interior height	785 mm	785 mm		



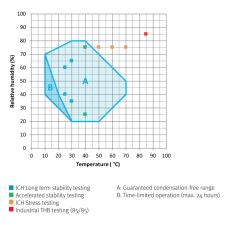
Interior depth	485 mm	485 mm		
Unit doors	1	1		
Environment-specific data				
Sound-pressure level	52 dB(A)	52 dB(A)		
Energy consumption at 40°C and 75% RH	400 Wh/h	400 Wh/h		
Fixtures				
Number of shelves (std./max.)	2/9	2/9		

All technical data is specified for unloaded units with standard equipment at an ambient temperature of $\pm 2^{\circ}$ C $\pm 3^{\circ}$ C and a power supply voltage fluctuation of $\pm 10^{\circ}$ M. 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.

DIMENSIONS Incl. fittings and connections [mm]



DIAGRAMS



Climate chart

OPTIONS

Designation	Description	KBF-S 240	*	ArtNo.
	left			
Access port with silicone plug	30 mm	•	01	8012-2072



Designation	Description	KBF-S 240	*	ArtNo.
	50 mm	•	01	8012-2079
	100 mm	•	01	8012-2077
	right			
	30 mm	•	01	8012-2071
	50 mm	•	01	8012-2078
	100 mm	•	01	8012-2076
	top			
	30 mm	•	01	8012-2073
	50 mm	•	01	8012-2074
	100 mm	•	01	8012-2075
Calibration certificate, expanded	for temperature and humidity; for extending the measurement in center of chamber to include another test value		-	8012-2066
	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-2067
Calibration certificate, temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-2068
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-2069
Calibration certificate, temperature and humidity	Measurement in center of chamber at 25°C / 60% RH or at specified test values	•	-	8012-2065
	temperature (according to DIN1288o) and humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measuring point, at 25 $^{\circ}$ C / 60 $^{\circ}$ RH or at specified values	•	-	8012-2070
Door lock	lockable door handle	•	-	8012-2086

ACCESSORIES

Designation	Description	KBF-S 240	*	ArtNo.
	for simple logging and documentation requirements with up to 5 networked units.			
APT-COM™ 4 BASIC-Edition	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-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
Edition	version 4, PROFESSIONAL edition	•	-	9053-0040



BINDER PURE AQUA SERVICE System for preparation or complete desalination of tap water, complete set containing PURE AQUA SOS single-use cartridge, measuring device, and all necessary connecting parts Single-use. replacement cartridge for BINDER PURE AQUA System Convenient water supply Flexible positioning of the water container with magnetic holder, hose adapter for water container with practical quick coupling, and water stop function External, with magnetic holder Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, too-240 V, 50 for Hz Basic set 500, length 30 cm Expansion set consisting of 2 pieces, attachment material; clips. For expanding the basic set of light bars Expansion set consisting of 2 pieces, attachment material; clips. For expanding the basic set of light bars Expansion set 300, length 30 cm Expansion set 500, length 30 cm Expansion set 500, length 50 cm QU/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 Hard copy inside folder IQ/OQ documents — supporting documents for validation performed by customers, consisting of IQ/OQ decideklists incl. calibration guide and comprehensive unit documentation; parameters, temperature and humidity values Digital in PDF format Hard copy inside folder IQ/OQ documents — supporting documents for validation performed by customers, consisting of IQ/OQ decideklists incl. calibration guide and comprehensive unit documentation; Digital in PDF format Hard copy inside folder	8012-0759
Flexible positioning of the water container with magnetic holder, hose adapter for water container with practical quick coupling, and water stop function	
Convenient water supply External, with magnetic holder External, with magnetic holder External, with magnetic holder 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 Expansion set 200, length 50 cm Expansion set consisting of 2 pieces, attachment material- clips. For expanding the basic set of light bars Expansion set consisting of 2 pieces, attachment material- clips. For expanding the basic set of light bars Expansion set 500, length 30 cm Expansion set 500, length 50 cm 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 Hard copy inside folder IQ/OQ decklists incl. calibration guide and comprehensive unit documentation; parameters: temperature and humidity values Digital in PDF format Hard copy inside folder In the parameters is temperature and humidity values Digital in PDF format Hard copy inside folder In the parameters is temperature and humidity values Digital in PDF format Hard copy inside folder In the parameters is temperature and humidity values Digital in PDF format Hard copy inside folder	6011-0165
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Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars Expansion set 300, length 30 cm Expansion set 500, length 50 cm 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 Hard copy inside folder 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 Hard copy inside folder I Hard copy inside folder	
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Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars Expansion set 300, length 30 cm Expansion set 500, length 50 cm 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 Hard copy inside folder IQ/OQ documents — supporting documents for validation performed by customers, consisting of: IQ/OQ documents — supporting documents for validation performed by customers, consisting of: IQ/OQ documents incl. calibration guide and comprehensive unit documentation; parameters: temperature and humidity values Digital in PDF format In I	8012-1108
Expansion set 500, length 50 cm 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 Hard copy inside folder 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 Hard copy inside folder • • • • • • • • • • • • • • • • • • •	
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Qualification documents 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 Hard copy inside folder • -	
Qualification documents 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 Hard copy inside folder • -	7057-0006
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 Hard copy inside folder • -	7007-0006
Hard copy inside folder • -	
	7057-0002
Rack stainless steel • -	7007-0002
	8012-2050
Rack, reinforced stainless steel, with fasteners (1 set of 4)	8012-0638
Rack accessories fasteners (1 set of 4) for additional security of racks -	8012-2280
Shelf, perforated Stainless steel -	8012-2163
pH-neutral detergent concentrated, for gentle remove of residual contaminants; 1 kg	8012-2250

SERVICES

Designation	Description	*	ArtNo.
Calibration services			



Designation	Description	*	ArtNo.
Town earthur and humidity callbration	Expansion –Temperature and humidity calibration with 1 measuring point in center of chamber with 1 specified pair of values, including certificate	-	DL30-0302
Temperature and humidity calibration	Temperature and humidity calibration with 1 measuring point in center of chamber with 1 specified pair of values, including certificate	-	DL30-0301
Temperature and humidity measurement, 9-1 measuring points	Temperature measurement with 9 temperature measuring points and 1 humidity measuring point in center of chamber with a pair of values specified by the user, including certificate	-	DL30-0309
Temperature and humidity measurement, 18-1 measuring points	Temperature measurement with 18 temperature measuring points and 1 humidity measuring point in center of chamber with a pair of values specified by the user, including certificate	-	DL30-0318
Temperature and humidity measurement, 27-1 measuring points	Temperature measurement with 27 temperature measuring points and 1 humidity measuring point in center of chamber with a pair of values specified by the user, including certificate	-	DL30-0327
Temperature and humidity measurement according to DIN12880	Temperature measurement in accordance with DIN 12880 with 27 temperature measuring points and 1 humidity measuring point in center of chamber with a pair of values specified by the user, including certificate	-	DL30-0427
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)	-	DL10-0300
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	-	DL10-0700
Maintenance contracts			
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	-	DL20-0710
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 temperature/humidity value, including certificate	-	DL20-0920
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	-	DL20-0820
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	-	DL20-0400
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	_	DL42-0300
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	-	DL44-0500
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0030

BINDER Best conditions for your success

NOTES

O1 Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.

BINDER GmbH

Tuttlingen, Germany TEL +49 7462 2005 0 FAX +49 7462 2005 100 info@binder-world.com www.binder-world.com

BINDER Inc.

Bohemia, NY, USA TEL +1 631 224 4340 FAX +1 631 224 4354 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 FAX +86 21 685 808 29 china@binder-world.com www.binder-world.com

BINDER Asia Pacific (Hong Kong) Ltd.

Kowloon, Hong Kong, P.R. China TEL +852 39070500 FAX +852 39070507 asia@binder-world.com www.binder-world.com