

Model KBF-S 115 | Constant climate chambers with large temperature / humidity range

The new Solid.Line KBF-S climate chamber is a custom-made solution for long-term testing and accelerated stability testing for 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

- Homogeneous climate conditions thanks to APT.line™ preheating chamber
- Standard-compliant testing according to ICH Q1A
- · Precise temperature and humidity control



Model 115

MAIN FEATURES

- Temperature range: o °C to +70 °C
- Humidity range: 20% to 80% RH
- APT.line $^{\text{TM}}$ preheating chamber technology
- Humidity regulation with capacitive humidity sensor and steam humidification
- LCD to display temperature and humidity along with additional information and alarms
- Internal data logger, measured values can be read out in open format via IISB
- Unit self-test for comprehensive status analysis
- Inner chamber made completely of stainless steel



Model 115

- 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
- Computer interface: Ethernet
- Independent water supply via tank

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
	200230 V 1~ ph 50/60 Hz	Standard	KBFS115-230V	9020-0370
102	200240 V 1~ ph 50/60 Hz	Standard	KBFS115-230V KBFS115UL-240V	9020-0371



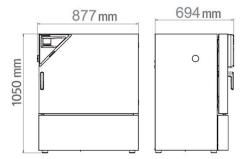
TECHNICAL DATA

Description	KBFS115-230V ¹	KBFS115UL-240V ¹
Article Number		9020-0371
	9020-0370	9020-03/1
Performance Data Temperature Temperature range	0. 70	0.70
<u> </u>	070	070
Temperature variation at 40 °C [± K]	0.3	0.3
Max. heat compensation at 40 °C [W]	200	200
Performance Data Climate		
Temperature range [°C]	1070	1070
Temperature variation at 25 °C and 60 % RH [± K]	0.3	0.3
Temperature variation at 40 °C and 75 % RH [± K]	0.3	0.3
Temperature fluctuation at 25 °C and 60 % RH [± K]	0.1	0.1
Temperature fluctuation at 40 °C and 75 % RH [± K]	0.1	0.1
Humidity range [% RH]	2080	2080
Humidity fluctuation at 25 °C and 60 % RH	2,0 % RH	2,0 % RH
Humidity fluctuation at 40 °C and 75 % RH	2,0 % RH	2,0 % RH
Humidty recovery time after 30 s door open at 25 °C and 60 % RH [min]	6	6
Humidty recovery time after 30 s door open at 40 °C and 75 % RH [min]	7	7
Electrical data		
Rated Voltage [V]	200230	200240
Power frequency [Hz]	50/60	50/60
Nominal power [kW]	1.4	1.4
Unit fuse [A]	16	16
Phase (Nominal voltage)	1~	1~
Measures		
Interior volume [L]	102	102
Net weight of the unit (empty) [kg]	128	128
Permitted load [kg]	100	100
Load per rack [kg]	30	30
Wall clearance back [mm]	100	100
Wall clearance sidewise [mm]	100	100
Internal Dimensions		
Width [mm]	600	600
Height [mm]	483	483
Depth [mm]	351	351
Doors		
Unit doors	1	1
Housing dimensions not incl. fittings and connections		
Width net [mm]	880	880
Height net [mm]	1050	1050
Depth net [mm]	650	650
Environment-specific data		
Energy consumption at 40 °C and 75 % RH [Wh/h]	400	400
Sound-pressure level [dB(A)]	52	52
Fixtures	·	
Number of shelves (std./max.)	2/5	2/5
	-13	~13

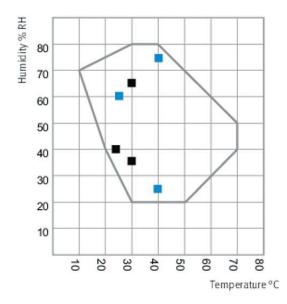
¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended wall clearances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



CHARTS



- ICH Q1A Long term stability testing
- ICH Q1A Accelerated stability testing

Climate chart

OPTIONS

Designation	Description	*	ArtNo.
	left		
	30 mm	01	8012-1442
	50 mm	01	8012-1472
	100 mm	01	8012-0515
	right		
access port with silicone	30 mm	01	8012-1436
lug	50 mm	01	8012-1466
	100 mm	01	8012-0514
	top		
	30 mm	01	8012-1448
	50 mm	01	8012-1454
	100 mm	01	8012-1460
alibration certificate, xpanded	for temperature and humidity; for extending the measurement in center of chamber to include another test value	_	8012-0155

^{*} Notes > See last page



perature measurement incl. certificate and 27 measuring points at specified temperature perature measurement incl. certificate, 15- 18 measuring points at specified temperature perature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-0923 8012-0920
	-	
perature measurement incl. certificate, 9 measuring points at specified temperature	_	
		8012-0917
surement in center of chamber at 25 °C / 60% RH or at specified test values	-	8012-0154
perature (according to DIN12880) and humidity measurement incl. certificate, 27 temperature measuring points and midity measuring point, at 25 °C / 60 % RH or at specified values	ooints and	8012-0924
able door handle	-	8012-1978
erproof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding (nominal voltage; max. 500 W; max. 90 °C; protection class IP67)	-	8012-1043
mi ab erp	dity measuring point, at 25 °C / 60 % RH or at specified values le door handle roof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding	dity measuring point, at 25 °C / 60 % RH or at specified values le door handle - uroof, switched flush-mounting box (CA3GD) for nominal voltage in unit interior, with cover and corresponding

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ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
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.		
Edition	version 4, GLP edition	-	9053-004
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL-Edition	version 4, PROFESSIONAL edition	-	9053-004
BINDER PURE AQUA SERVICE	System for preparation or complete desalination of tap water, complete set containing PURE AQUA 300 single-use cartridge, measuring device, and all necessary connecting parts	-	8012-075
BINDER PURE AQUA SERVICE, accessories	Single-use, replacement cartridge for BINDER PURE AQUA System	-	6011-016
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	-	8012-184
Data Logger Kit	T 220: For continuous temperature logging from -90 °C to 220 °C. The kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit	-	8012-071
	TH 70/70: For continuous temperature and humidity logging from -40 °C to 70 °C / 0% to 100% RH and additional logging of ambient conditions. Kit includes 1 data logger, 2 attachable combined humidity/temperature sensors, 2 m extension cable and 1 fixture for mounting to the BINDER unit	-	8012-071
	TH 70: For continuous temperature and humidity logging from -40 °C to 70 °C; 0% to 100% RH. Kit includes 1 data logger, Pt 100 sensor with 2 m extension cable, and 1 magnetic fixture for mounting to the BINDER unit	-	8012-071
Data Logger Software	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	-	8012-082
	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
I ED light hars	Basic set 500, length 50 cm	-	8012-110
LLD light bais	Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars		
Basic so Basic so Expansio	Expansion set 300, length 30 cm	-	8012-1716
	Expansion set 500, length 50 cm	-	8012-1717
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	-	7057-000
Qualification documents	Hard copy inside folder	_	7007-000
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 and humidity values		
	Digital in PDF format	-	7057-000
	Hard copy inside folder	-	7007-000
Rack	stainless steel	_	6004-011

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-0620
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-0700
Shelf, perforated	Stainless steel	-	6004-0115
WLAN kit	The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service.	-	8500-0164

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
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	DL10-0300
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0700
Maintenance contracts			
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	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	05	DL20-0920
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	DL20-0400
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	DL20-0820
Calibration services			
Tomporature and humidity calibration	Expansion –Temperature and humidity calibration with 1 measuring point in center of chamber with 1 specified pair of values, including certificate	03, 04, 05	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	03, 04, 05	DL30-0301
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	03, 04, 05	DL30-0427
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	03, 04, 05	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	03, 04, 05	DL30-0327
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	03, 04, 05	DL30-0309
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL42-0300
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	_	DL50-0030

^{*} 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.
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard.
- 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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