Model KBF-S 115 | 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 115

Model 115

MAIN 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 and alarms
- Internal data logger, measured values can be read out in open format via USB
- 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
- Computer interface: Ethernet
- Independent water supply via tank

ORDERING INFORMATION

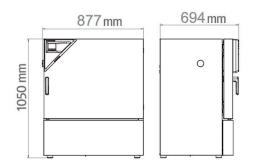
Interior volume [L]	Voltage	Option model	Version	ArtNo.
102	200230 V 1~ ph 50/60 Hz	Standard	KBFS115-230V	9020-0370
	200240 V 1~ ph 50/60 Hz	Standard	KBFS115UL-240V	9020-0371

TECHNICAL DATA

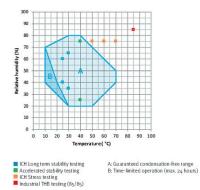
Description	KBFS115-230V ¹	KBFS115UL-240V ¹
Article Number	9020-0370	9020-0371
Performance Data Temperature		
Temperature range [°C]	070	070
Temperature variation at 40 °C [± K]	0.3	0.3
Max. heat compensation at 40 °C [W]	200	200
Performance Data Climate		
Temperature range [°C]	1070	1070
Temperature 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	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
Recovery time after 30 seconds door open at 25 °C and 60 % RH [min]	6	6
Recovery time after 30 seconds 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		
Interior width [mm]	600	600
Interior height [mm]	483	483
Interior 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

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



Climate chart

OPTIONS

Designation	Description	*	ArtNo.
	left		
	30 mm	01	8012-2072
	50 mm	01	8012-2079
	100 mm	01	8012-2077
	right		
Access port with silicone	30 mm	01	8012-2071
olug	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
Calibration certificate, temperature	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-2069
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-2068
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-2067
Calibration certificate,	Measurement in center of chamber at 25 °C / 60% RH or at specified test values	-	8012-2065
temperature and humidity	temperature (according to DIN12880) and humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measuring point, at 25 °C / 60 % RH or at specified values	-	8012-2070
Door lock	lockable door handle	-	8012-2086

* Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		i.
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	-	9053-0042
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	-	9053-0040
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		8012-0759
BINDER PURE AQUA SERVICE, accessories	Single-use, replacement cartridge for BINDER PURE AQUA System	-	6011-0165
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	-	8012-1847
	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
.ED light bars	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
oH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	8012-2250
	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 de sumante	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	-	7057-0006
	Hard copy inside folder	-	7007-000
Rack	stainless steel	-	8012-2049
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-228
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-0700
Shelf, perforated	Stainless steel	-	8012-2165
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.	-	8012-2262

* Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Maintenance contracts			
Installation services			
Maintenance services			
Calibration services			
Validation services			
Warranty service			
waitality service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0030
	The warranty is extended by 1 year from the delivery date, wear parts are excluded Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, check of control response, 20% discount on spare parts	- 05	DL50-0030 DL20-0710
1-year warranty extension	Maintenance service as contractually agreed, visual inspection of mechanical and electrical components,	- 05 05	

Designation	Description	*	ArtNo.
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
One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical Aaintenance 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
Maintenance service as contractually agreed, visual inspection of mechanical and electrical components, ILVER 3-year maintenance contract 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
Temperature 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 with 1 measuring point in center of chamber with 1 specified pair of values, including certificate	03, 04, 05	DL30-0301
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
Femperature and humidity neasurement, 18-1 measuring points			DL30-0318
mperature and humidity 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
Femperature and humidity neasurement, 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
Connect the unit to the customer-side connections (electricity, water, wastewater, gas), basic functions Unit commissioning check, brief operating instructions. (excl.: unpacking, setup, controller instructions, programming, installation work)		05	DL10-0300
Jnit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0700

* 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
- 04 Calibration is performed according to the BINDER factory standard.
- 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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