

Model KBF 130 | Constant climate chambers with a large temperature / humidity range

The proven specialist for reliable ICH stability tests in the pharmaceutical industry: the KBF masters all long-term tests, accelerated tests and stress tests. It fulfills all important ICH requirements, from precision to programming and documentation. With flexible water supply options for all installation locations. In addition, the new KBF consumes up to 40 % less energy than its predecessor.



Model 130



Model 130

IMPORTANT FEATURES

- Temperature range: 0°C to +70°C
- Humidity range: 10% to 80% RH
- Proven APT.line™ preheating chamber technology
- Up to 40% lower energy consumption compared to the previous model
- Energy-efficient cooling with modern inverter cooling unit
- Cooling with climate-neutral R-600a refrigerant
- Door heating to prevent condensation
- Adjustable fan speed
- Humidity regulation with capacitive humidity sensor and responsive steam humidification
- Housing design with HIT technology
- Stainless-steel inner chamber
- Inner doors made of metal oxide-coated safety glass
- Two racks made of stainless steel
- Large access port with silicone plug
- Floor-standing units featuring robust twin casters with brakes at the front
- Stackable tabletop units with a volume of up to 130 liters
- Intuitive touchscreen controller with time-segment and real-time programming
- Ergonomically adjustable control terminal (for units with a volume of 470 liters and above)
- Signal triangle with light-up status display (for units with a volume of 470 liters and above)
- Internal data logger, measured values can be read out in open format via USB
- Class 3.3 independent temperature safety device (DIN 12880) with visual and acoustic alarms
- Unit self-test for comprehensive status analysis
- Data interfaces: Ethernet, USB
- BINDER Multi Management Software APT-COM™ basic edition
- Optional light modules for ICH photostability testing (for models 260, 470, 720)
- Optional LED light modules for plant growth (for models from 260)

ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	Art.-No.
Model KBF 130					
127	200...240 V 1~ 50/60 Hz -16,0 A	–	Standard	KBF130-230V	9020-0478
	120 V 1~ 50/60 Hz -16,0 A	–	Standard	KBF130UL-120V	9020-0494

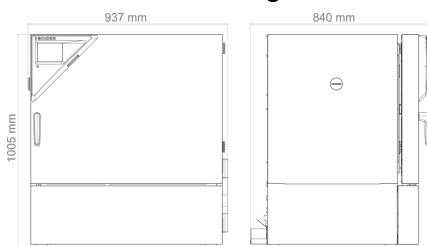
TECHNICAL DATA

Data		
Designation	KBF130-230V	KBF130UL-120V
Article Number	9020-0478	9020-0494
Option model	Standard	Standard
Performance Data Temperature		
Temperature range	0...70 °C	0...70 °C
Max. heat compensation at 40°C	270 W	270 W
Performance Data Climate		
Temperature range with humidity	10...70 °C	10...70 °C
Humidity range	10...80 % RH	10...80 % RH
Temperature uniformity at 25°C and 60% RH	0.2 ± K	0.2 ± K
Temperature uniformity at 40°C and 75% RH	0.2 ± K	0.2 ± K
Temperature fluctuation at 25°C and 60% RH	0.1 ± K	0.1 ± K
Temperature fluctuation at 40°C and 75% RH	0.1 ± K	0.1 ± K
Recovery time after door was opened for 30 s at 25°C and 60% RH	3 min	3 min
Recovery time after door was opened for 30 s at 40°C and 75% RH	3 min	3 min
Electrical data		
Rated Voltage	200...240 V	120 V
Power frequency	50/60 Hz	50/60 Hz
Nominal power	1,3 kW	1,3 kW
Unit fuse	16,0 A	16,0 A
Phase (Nominal voltage)	1~	1~
Dimensions and weights		
Interior volume	127 L	127 L
Net weight of the unit (empty)	126 kg	126 kg
Load per rack	25 kg	25 kg
Permitted load	50 kg	50 kg
Wall clearance back	100 mm	100 mm

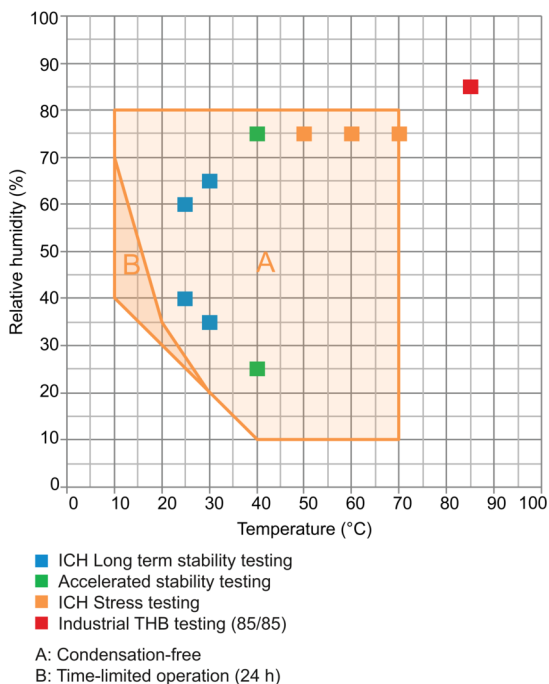
Wall clearance sidewise	100 mm	100 mm
Housing dimensions not incl. fittings and connections		
Width net	900 mm	900 mm
Height net	1,005 mm	1,005 mm
Depth net	710 mm	710 mm
Internal Dimensions		
Interior width	656 mm	656 mm
Interior height	500 mm	500 mm
Interior depth	386 mm	386 mm
Inner doors	1	1
Unit doors	1	1
Environment-specific data		
Energy consumption at 25°C and 60% RH	160 Wh/h	190 Wh/h
Energy consumption at 40°C and 75% RH	160 Wh/h	190 Wh/h
Fixtures		
Number of shelves (std./max.)	2/6	2/6

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]



DIAGRAMS



Climate chart

OPTIONS

Designation	Description	KBF 130	*	Art.-No.
	left			
	30 mm	•	01	8012-2481
	50 mm	•	01	8012-2482
	100 mm	•	01	8012-2483
	right			
	30 mm	•	01	8012-2484
Access port with silicone plug	50 mm	•	01	8012-2485
	100 mm	•	01	8012-2486
	top			
	30 mm	•	01	8012-2499
	50 mm	•	01	8012-2487
	100 mm	•	01	8012-2488
Alarm output, zero-voltage	Accessible via 3-pin clamping sleeve (max. 24 V - 2.5 A), with acoustic signal that can be switched off	•	-	8012-2503

Designation	Description	KBF 130	*	Art.-No.
Analog output 4-20 mA	for temperature and humidity values (output not adjustable)	•	-	8012-2574
Calibration certificate, expanded	for temperature and humidity; for extending the measurement in center of chamber to include another test value	•	-	8012-2575
Calibration certificate, temperature	temperature measurement incl. certificate, 9 measuring points at specified temperature	•	-	8012-2378
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	•	-	8012-2382
	temperature measurement incl. certificate and 27 measuring points at specified temperature	•	-	8012-2426
Calibration certificate, temperature and humidity	Measurement in center of chamber at 25°C / 60% RH or at specified test values	•	-	8012-2437
	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	•	-	8012-2577
Door lock	lockable door handle	•	-	8012-2535
Door lock, electromechanical	can be opened with PIN code via controller	•	-	8012-2537
Inner chamber, reinforced	max. total load 100 kg	•	-	8012-2518
Interior lighting	With climate-resistant LEDs, switches when the unit door is opened	•	-	8012-2561
Specimen temperature display	Flexible Pt 100 indoor temperature sensor, for object temperature display or control	•	-	8012-2591

ACCESSORIES

Designation	Description	KBF 130	*	Art.-No.
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-Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.			
	version 4, PROFESSIONAL edition	•	-	9053-0040
Base	With swivel casters, for mobile installation or leveling of the unit or stack of units	•	-	9051-0045
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
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

Designation	Description	KBF 130	*	Art.-No.
	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
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	•	-	8012-2250
	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	•	-	7007-0006
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	•	-	7057-0002
	Hard copy inside folder	•	-	7007-0002
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Reinforced rack	Load-bearing capacity 50 kg	•	-	8012-2412
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Shelf rack, perforated	Load-bearing capacity 25 kg	•	-	8012-2406
Stacking adapter	For safe stacking of two identical units	•	-	9051-0048
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel			
Standard rack	Load-bearing capacity 25 kg	•	-	8012-2389
Water supply	External, free-standing, set consisting of 20-liter fresh water canister with pump and level sensor and 20-liter waste water canister	•	-	8012-2592

SERVICES

Designation	Description	*	Art.-No.
Calibration services			
	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	–	DL30-0340
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

Designation	Description	*	Art.-No.
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	–	DL20-0613
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

NOTES

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



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Pricing on any accessories shown can be found by keying the part number into the search box on our website.

The specifications listed in this brochure are subject to change by the manufacturer and therefore cannot be guaranteed to be correct. If there are aspects of the specification that must be guaranteed, please provide these to our sales team so that details can be confirmed.

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