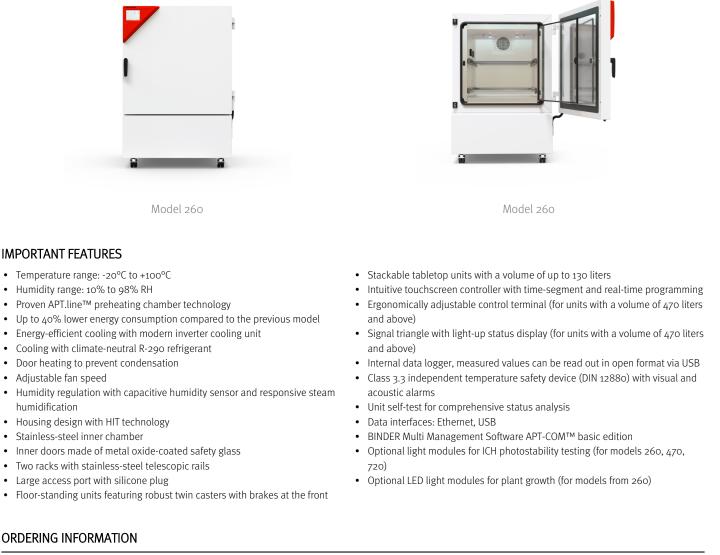
•

•

# Model KBF PRO 260 | Constant climate chambers with expanded temperature / humidity range

A powerful all-rounder among constant climate chambers: Equipped with all kinds of sophisticated technology, the KBF PRO takes any material test in its stride - whether it takes place at -20°C or under THB conditions at +85°C and 85% relative humidity. It offers flexible water supply options for all installation sites and consumes up to 40% less energy than its predecessor, the KMF model. Optional light modules are also available to turn the KBF PRO into a chamber for ICH photostability testing or plant growth.



#### Plug\* Interior volume Power supply - unit fuse Version Model version Art.-No. [L] Model KBF PRO 260 262 208...240 V 1~ 50/60 Hz -16,0 A Standard KBFPRO 260-230V 9020-0440

Data sheet Model KBF PRO 260



### TECHNICAL DATA

KBFPRO 260-230V
9020-0440
Standard
-20100 °C
800 W
1090 °C
1098 % RH
0.2 ± K
0.2 ± K
0.1 ± K
0.1 ± K
1 min
3 min
208240 V
50/60 Hz
1,6 kW
16,0 A
1~
262 L
197 kg
30 kg
90 kg
100 mm
180 mm

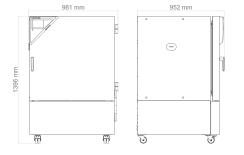
Data sheet Model KBF PRO 260



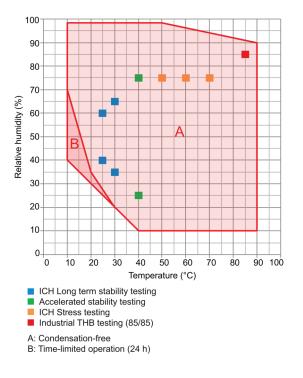
Width net	930 mm
Height net	1,396 mm
Depth net	900 mm
Internal Dimensions	
Interior width	656 mm
Interior height	695 mm
Interior depth	575 mm
Inner doors	1
Unit doors	1
Environment-specific data	
Energy consumption at 25°C and 60% RH	235 Wh/h
Energy consumption at 40°C and 75% RH	260 Wh/h
Energy consumption at 85°C and 85% RH	375 Wh/h
Fixtures	
Number of shelves (std./max.)	2/9

All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C  $\pm 3$  °C and a power supply voltage fluctuation of  $\pm 10$  %. 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	*	ArtNo.
	left .		
	30 mm	01	8012-2489
	50 mm	01	8012-2490
	100 mm	01	8012-2491
	right		
Access port with silicone plug	30 mm	01	8012-2492
	50 mm	01	8012-2493
	100 mm	01	8012-2494
	top		
	30 mm	01	8012-2500
	50 mm	01	8012-2495
	100 mm	01	8012-2496
Alarm output, zero-voltage	Accessible via 3-pin clamping sleeve (max. 24 V - 2.5 A), with acoustic signal that can be switched off	-	8012-2504
Analog output 4-20 mA	for temperature and humidity values (output not adjustable)	-	8012-2375

BINDER data sheet | Version dated: 24-11-20 We reserve the right to alter technical specifications at any time.

Data	sheet Model KBF PRO 260	

Designation	Description	*	ArtNo.
Calibration certificate, expanded	for temperature and humidity; for extending the measurement in center of chamber to include another test value	-	8012-2576
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-2379
Calibration certificate, temperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-2383
	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-2427
Californian antificate	Measurement in center of chamber at 25°C / 60% RH or at specified test values	-	8012-2438
Calibration certificate, 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	-	8012-2578
Coated heat exchanger	For preventing damage to the aluminum heat exchanger caused by corrosive sample material	-	8012-2583
Door lock	lockable door handle	-	8012-2538
Door lock, electromechanical	can be opened with PIN code via controller	-	8012-2540
Inner chamber, reinforced	max. total load 180 kg	-	8012-2525
Interior lighting	With climate-resistant LEDs, switches when the unit door is opened	-	8012-2562
Shipping pallet	with unloading ramp for installing unit without forklift	-	8012-2548
Specimen temperature display	Flexible Pt 100 indoor temperature sensor, for object temperature display or control	-	8012-2554
Swivel casters, height- adjustable	For horizontal alignment of the unit on uneven floors	-	8012-2544

### ACCESSORIES

Designation	Description	*	ArtNo.
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
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
CO <sub>2</sub> gassing module	BINDER $\rm CO_2$ gassing module 0-1%, with NDIR $\rm CO_2$ sensor and analog output 4-20 mA	-	8012-2140
	BINDER CO $_{\rm 2}$ gassing module 0-20%, with NDIR CO $_{\rm 2}$ sensor and analog output 4-20 mA	-	8012-2138
ICH light module	BINDER ICH-Q1B light module consisting of a VIS cassette and a UVA cassette as well as an independent power supply	-	8012-2441

Page 5 / 8

Data sheet Model KBF PRO 260

#### BINDER Best conditions for your success

Designation	Description	*	ArtNo.
ICH light module with LQC	BINDER ICH-Q1B light module with light-dose control consisting of a VIS cassette, a UVA cassette, a spherical VIA sensor, a spherical UVA sensor as well as an independent power supply	-	8012-2443
	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
LED 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
ight module for plants	BINDER LED plant light module consisting of 16 LED strip lights, 3-channel controller and fresh air pump as well as independent power supply	-	8012-2439
oH-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 80 kg	-	8012-2413
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel		
Shelf rack, perforated	Load-bearing capacity 40 kg	-	8012-2407
	Shelf rack in set with pair of retaining rails (ball bearing mounted telescopic rails), made entirely of stainless steel		
Standard rack	Load-bearing capacity 40 kg	-	8012-2384
	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel		
	Load-bearing capacity 40 kg	-	8012-2390
Nater 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

BINDER
Best conditions for your success

Designation	Description	*	ArtNo.
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	-	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
Temperature and humidity measurement, 18-1 neasuring 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

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 info@binder-world.com www.binder-world.com

### BINDER Asia Pacific (Hong Kong) Ltd.

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

#### **BINDER Inc.**

Bohemia, NY, USA TEL +1 631 224 4340 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 china@binder-world.com www.binder-world.com