



# BINDER Product overview

# Incubators



Drying and heating chambers Climate chambers Ultra low temperature freezers



# **On your doorstep – worldwide** THE ULTIMATE in premium quality – produced in Germany

BINDER simulation chambers perform complex laboratory tasks with absolute reliability. They are developed and manufactured exclusively at the company site in Tuttlingen, southern Germany. We carry out all production stages in our factory – parts are punched, bent, and welded with precision; units are insulated and then finally assembled with care. By doing this, we can guarantee quality across the board. We supply around 22,000 premium units globally each year, with our intensive quality checks ensuring the excellent BINDER standard each time. With our four subsidiaries and our international sales partners, we are never far away from global companies, institutes, and research facilities all over the world. In recent years, we have really increased our international presence and are now highly committed to our customers in Asia and America, as well as to our core markets in Europe. Our BINDER experts support and advise you on-site in everything from choosing your perfect unit and installation, right through to maintenance and reliable technical support.

#### Right on your doorstep - in 135 countries around the world



# **Perfection in every detail** BINDER product portfolio and know-how – for all industries

Nearly all respected companies and research facilities rely on BINDER simulation chambers with the characteristic red triangle, whether they need them for cell or tissue cultivation, long-term storage, product testing, or material testing. We know what is important in laboratory practice and therefore work to ensure that we can fulfill our customers' requirements perfectly with excellent products and sophisticated equipment features. Our highly diversified BINDER product portfolio includes incubators, growth chambers, ultra low temperature freezers, drying and heating chambers, and climate chambers. It therefore covers the diverse requirements of the industries and markets in a first-class manner.

#### BINDER has the experience for every requirement

- Automotive
- Biotechnology
- Chemical industry
- Electronics/semiconductor industry
- Human diagnostics
- Pharmaceutical industry
- In-vitro fertilization (IVF)
- Cosmetics industry
- Aerospace industry
- Food/beverage industry
- Medical research
- Basic biological research

# Series production units and individual solutions – for all circumstances

Right from their manufacture at the factory, BINDER temperature, climate and simulation chambers address the widest range of demands from scientific and industrial labs. Thanks to a wide range of accessories and equipment options, our series production products can be set up in a more specific way on request for all standard application areas. If they are to be used for truly specialist laboratory tasks, the series production simulation chambers can be adapted further using individual extras from BINDER INDIVIDUAL.









BINDER product overview

# Looking for the right climate chamber?

BINDER products fit the bill perfectly.

Every BINDER climate chamber is equipped with top-of-the-range technology made in Germany and makes it possible to precisely simulate biological, chemical, and physical environmental conditions. The wide range of products from the leading specialist addresses the various requirements in science and industry. It comprises temperature and climate chamber models, material testing and drying chambers, as well as environmental simulation chambers. You'll find the ideal unit for every application here!

		23/28 liters	53/56/60 liters	115 liters	170 liters	220/240/260 liters	400/500 liters	700/720 liters	1020 liters	Page
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	C series	-	-	-	•	-	-	-	-	5
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# Growth

The ability to precisely control physical parameters such as temperature, humidity, CO<sub>2</sub> and O<sub>2</sub> concentrations, as well as the reproducibility of test conditions on a reliable basis, are the most important requirements for incubators and climate chambers in scientific laboratories that work with living organisms. BINDER understands these requirements and is constantly working to provide the ideal CO<sub>2</sub> incubators, microbiological incubators, and plant growth chambers. Innovative technical solutions and a range of equipment options come standard with our solutions.



**Cell biology** C | CB CO<sub>2</sub> incubators



**Microbiology** B | BD | BD-S | BF standard incubators KB | KT cooling incubators



**Plant biology** KBW | KBWF growth chambers



# ACCESSORIES AND CONFIGURATIONS

CO <sub>2</sub> shaker	<ul> <li>High-quality solution for the incubation of suspension cell cultures in CO<sub>2</sub> incubators.</li> <li>As only corrosion-resistant components are used in the stainless steel housing,</li> <li>the CO<sub>2</sub> shaker is ideal for gassed incubators with increased CO<sub>2</sub> concentrations and</li> <li>nearly saturated air humidity.</li> <li>Available as a Universal variant with ribbon cable for all BINDER CO<sub>2</sub> incubators with</li> <li>an interior of 150 liters or more and a Professional variant for CB models from 150 liters</li> <li>upwards with a LEMO socket as an electric access port.</li> <li>C and CB series</li> </ul>	
Active humidification	Humidity regulation from 50 to 95 % RH with external water supply. Hot steam is used for the humidification process, while sterile, dry ambient air is supplied for dehumidification. The CO <sub>2</sub> incubator does not need a water pan. CB series	
Quick sample access	The additional glass window (13 cm x 25 cm) in the inner glass door allows quick access to samples with a short incubation time. This ensures that any disruption to the atmosphere is kept to a minimum and that recovery times are quick. CB series	-02
Multiple-split inner door	Split glass doors and special matching shelf racks make it possible to divide the space for different experiments. The interior chamber atmosphere remains stable. CB series	
Copper interior fittings	The kit consists of three copper shelves and a copper-plated water pan. The copper equipment reduces the time and effort required for cleaning the incubator while continuing to ensure a high level of resistance to contamination. C series, CB 170	
Stacking options:		
Base	The base equipped with casters is used to position and level BINDER $\rm CO_2$ incubators securely. C and CB series	6 6
Stacking adapter	For stacking two BINDER $CO_2$ incubators in a thermally isolated manner. C and CB series	
Stacking frame with casters	Stable, vibration-free stacking frame on casters with locking brake for stacking two CO <sub>2</sub> incubators safely. C and CB series	

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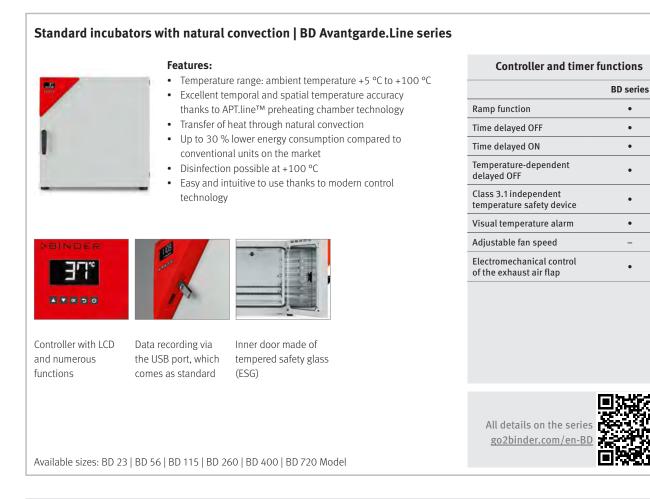
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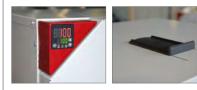
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#### Standard incubators with natural convection | BD-S Solid.Line series

#### Features:

- Temperature range: ambient temperature +5 °C to +70 °C
- High temperature accuracy
- Transfer of heat through natural convection
- Controller with timer function



BINDER

Controller with 7-segment display

Manually adjustable air flap

# **Controller and timer functions**

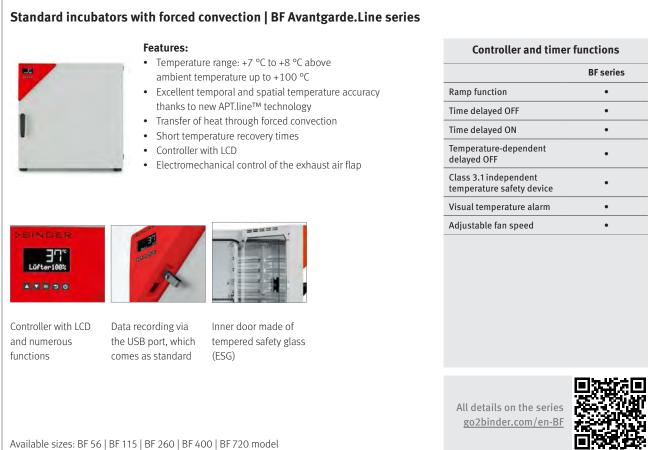
	BD-S series
Ramp function	•
Time delayed OFF	•
Time delayed ON	-
Temperature-dependent delayed OFF	-
Class 3.1 independent temperature safety device	•
Visual temperature alarm	•
Adjustable fan speed	-
Electromechanical control of the exhaust air flap	-

All details on the series go2binder.com/en-BD-S



Available sizes: BD-S 56 | BD-S 115 model







### Cooling incubators with thermoelectric cooling | KT series

#### Features:

- Temperature range: +4 °C to +100 °C
- Cooling with precision control thanks to thermoelectric Peltier module
- Environmentally friendly and safe as there are no refrigerants
- Energy-efficient temperature control at ambient temperature
- Disinfection possible at +100 °C
- Adjustable fan speed





Controller with timesegment and realtime programming

HIT insulation, direct foaming of the chamber with the housing





White light LED modules providing flexible and simple placement (option)

All details on the series go2binder.com/en-KT



Available sizes: KT 53 | KT 115 | KT 170 model

#### Growth chambers with light | KBW series

#### Features:

- Temperature range: 0 °C to +70 °C
- Homogeneous temperature distribution thanks to APT. line<sup>™</sup> preheating chamber technology
- Cooling system for operation that is stable in the long term
- Illumination cassettes providing flexible placement, which ensure homogeneous illumination over the entire usable area
- Intuitive touchscreen controller with
- time-segment and real-time programming





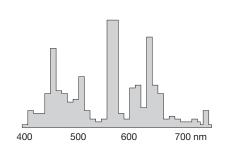


Illumination cassettes Inner door made of with three light qualities: daylight, Arabidopsis, FLUORA

safety glass

Intuitive touchscreen controller

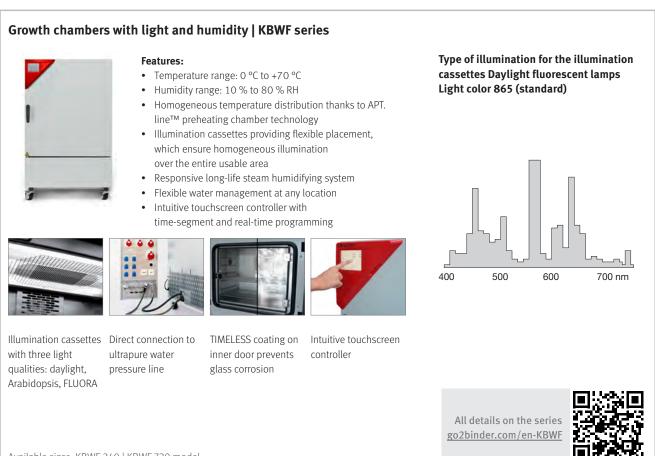




All details on the series go2binder.com/en-KBW



Available sizes: KBW 240 | KBW 400 | KBW 720 model



# ACCESSORIES AND CONFIGURATIONS

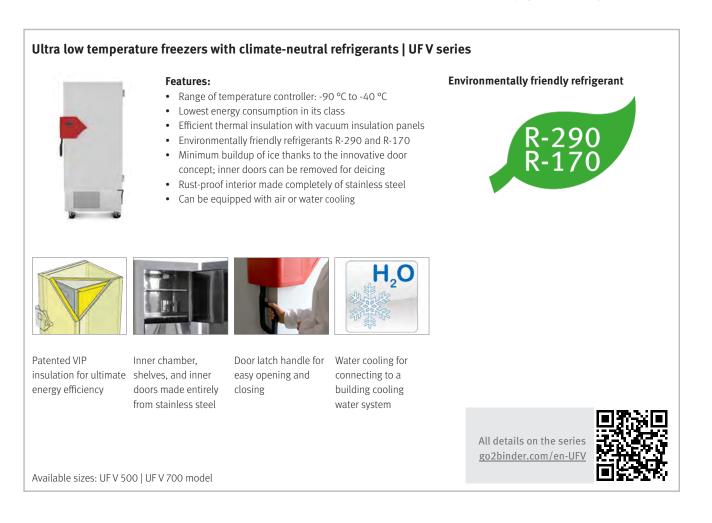
BINDER PURE AQUA SERVICE	System for preparation or complete desalination of tap water, complete set containing safety pressure container, single-use cartridge, measuring device, and all necessary connecting parts. KBWF series	
Water supply set	External, consisting of fresh and waste-water containers (20 liters each), cabling and external pump, for hanging from the back of the unit. KBWF series	
Arabidopsis illumination	Illumination cassettes equipped with Arabidopsis fluorescent tubes instead of daylight fluorescent tubes. Light color 842. KBW and KBWF series	400 500 600 700 rm
FLUORA® illumination	Illumination cassettes equipped with FLUORA® fluorescent tubes instead of daylight fluorescent tubes. Light color 77. KBW and KBWF series	400 500 500 700 rm

# Storage

An ultra deep freezer has to cool reliably in order to maintain the integrity of heat-sensitive samples. Another lab requirement is that it has to be practical and be designed with a user-oriented safety and operating concept. This includes, for example, the ability to record and ensure the traceability of the temperature chart for the entire storage period, or the ease with which chamber doors can be opened. BINDER has developed a state-of-the-art, ultra deep freezer that effortlessly joins the family of proven BINDER scientific laboratory products, setting new standards for environmentally-friendly solutions.



Sample storage UF V ultra low temperature freezers



## ACCESSORIES AND CONFIGURATIONS

Racks and boxes	Large selection of racks made of aluminum or stainless steel in different variants. Cryobox set consisting of 36 cardboard boxes with sample dividers. UF V series	
Door access system	Door access system consisting of electromechanical door locking mechanism and electronic access control via NumPad. UF V series	
Alarm system	Battery-backed alarm system for maintaining temperature display, alarm messages, and communication. UF V series	

# Drying & Tempering

The requirements for a drying chamber in terms of temperature stress tests go well beyond temperature accuracy, heat distribution and residue-free drying. For example, a chamber used to dry flammable materials must comply with safety standards.

BINDER fulfills these requirements like no other company, and provides customers with a wide range of drying and heating chambers, material test chambers, as well as chambers for safety drying or gentle vacuum drying of heat-sensitive samples.



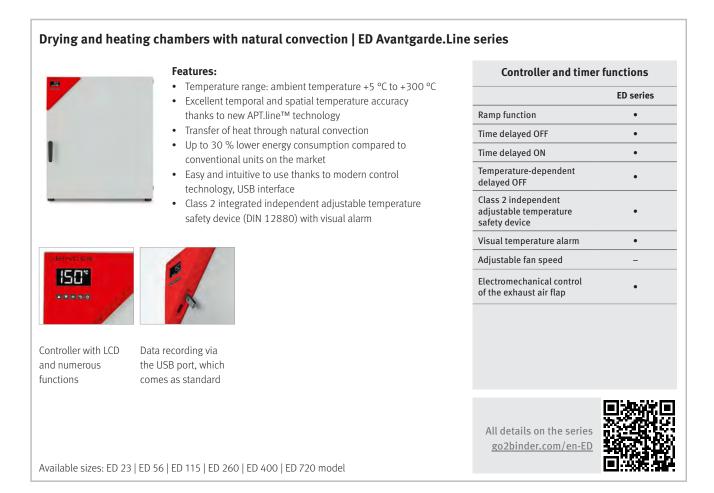
**Drying & tempering** Drying and heating chambers ED | ED-S | E | FD | FED | FD-S | FP | M



**Safety drying** FDL safety drying chambers



**Vacuum drying** VD | VDL vacuum drying chambers



 Features:
 • Temperature range: ambient temperature +7 °C to +250 °C
 • Temperature accuracy thanks to APT.line™

 • High temperature accuracy thanks to APT.line™
 • Ramp function

 • Transfer of heat through natural convection
 • Time delayed C

 • Controller with timer function
 • Class 2 integrated independent adjustable temperature

safety device (DIN 12880) with visual alarm

Controller with 7-segment display

Manually adjustable air flap

#### **Controller and timer functions**

	ED-S series
Ramp function	•
Time delayed OFF	•
Time delayed ON	-
Temperature-dependent delayed OFF	-
Class 2 independent adjustable temperature safety device	•
Visual temperature alarm	•
Adjustable fan speed	-
Electromechanical control of the exhaust air flap	_

All details on the series go2binder.com/en-ED-S



Available sizes: ED-S 56 | ED-S 115 model

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#### Drying and heating chambers with mechanical adjustment | E Classic.Line series

#### Features:

- Temperature range: +60 °C to +230 °C
- Adjustable exhaust air flap
- Hydro-mechanical thermostat
- Class 1 temperature safety device
- Timer 0 120 min

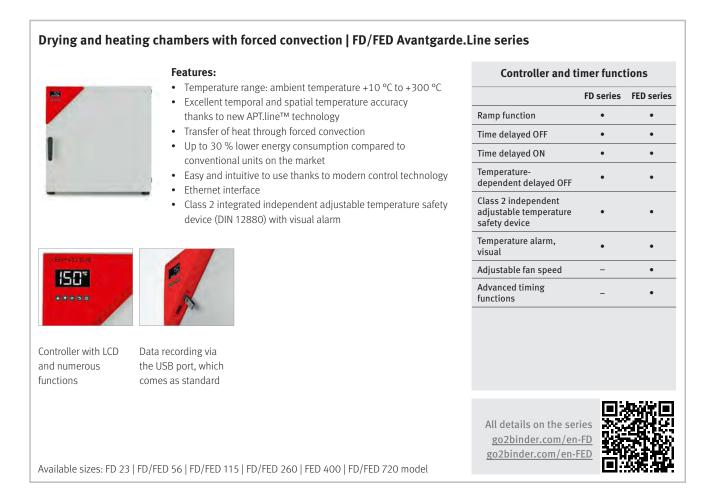


Stainless steel inner chamber

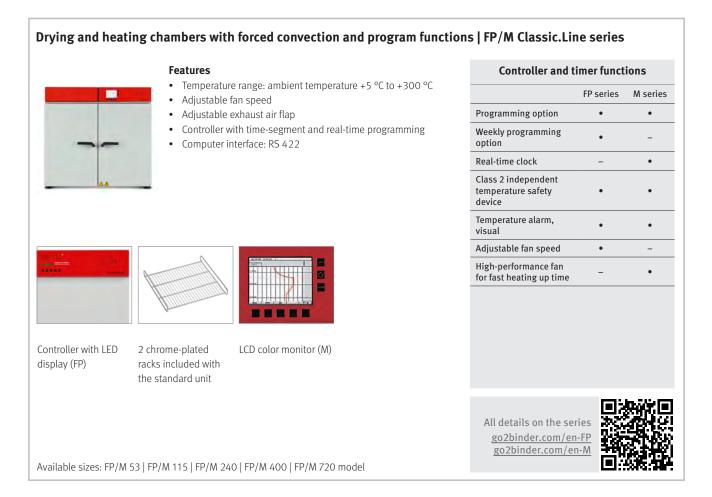
All details on the series go2binder.com/en-E

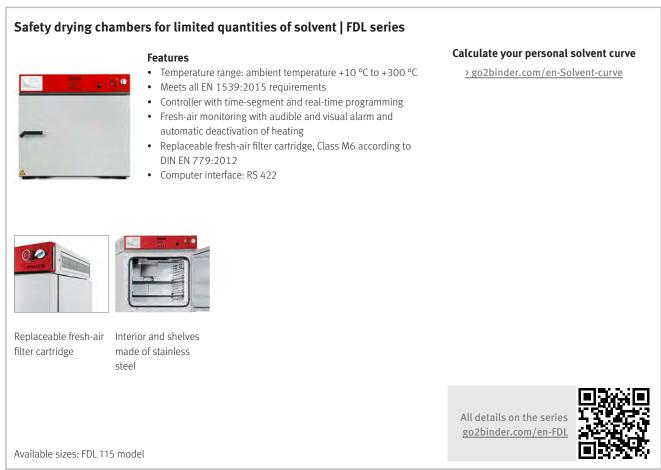


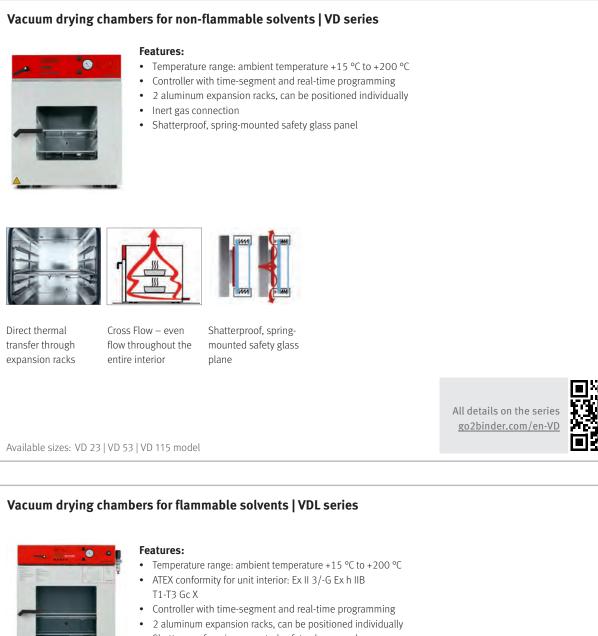
Available sizes: E 28 model



#### Drying and heating chambers with forced convection | FD-S Solid.Line series Features: **Controller and timer functions** • Temperature range: ambient temperature +10 °C to +250 °C BINDER FD-S series Homogeneous temperature distribution thanks to APT.line™ . preheating chamber technology Ramp function Transfer of heat through forced convection Time delayed OFF • • Controller with timer function Time delayed ON \_ • Class 2 integrated independent adjustable temperature Temperature-dependent delayed OFF safety device (DIN 12880) with visual alarm Class 2 independent adjustable temperature safety device Temperature alarm, visual • Adjustable fan speed Controller with Manually adjustable 7-segment display air flap All details on the series go2binder.com/en-FD-S Available sizes: FD-S 56 | FD-S 115 model







- Shatterproof, spring-mounted safety glass panel
- Pressurized instrument panel with compressed air connection



gasket



Explosion-protected Direct thermal interior thanks to transfer throug flame protection expansion rack

Direct thermalCross Flow - etransfer throughflow throughoexpansion racksentire interior



Cross Flow – even Shatterproof, springflow throughout the mounted safety glass entire interior plane

All details on the series go2binder.com/en-VDL



Available sizes: VDL 23 | VDL 53 | VDL 115 model

## ACCESSORIES AND CONFIGURATIONS

Vacuum pumps	BINDER vacuum drying chambers are available with a perfectly matched vacuum pump in a separate pump chamber. The pumps are available in different option models. They boast an excellent pumping speed and a long service life.	
Chemical membrane pump VP 1.1	Chemical membrane pump with a nominal air flow of 2.0 m³/hour, final pressure 7 mbar. VD series	
Chemical membrane pump VP 2.1	Chemical membrane pump with a nominal air flow 3.4 m³/hour, final pressure 1.5 mbar. VD series	
EX-proof chemical membrane pump VP 4	ATEX-compliant chemical membrane pump with a nominal air flow of 1.9 m³/hour, final pressure 12 mbar. VDL series	
Temperature measurement of the specimen	Pt 100 sensor with flexible cable for performing measurements directly on the sample. VD and VDL series	
Electric access port	Vacuum-tight access port for transmitting electrical currents, voltages, or signals. VD and VDL series	

# Environmental simulation

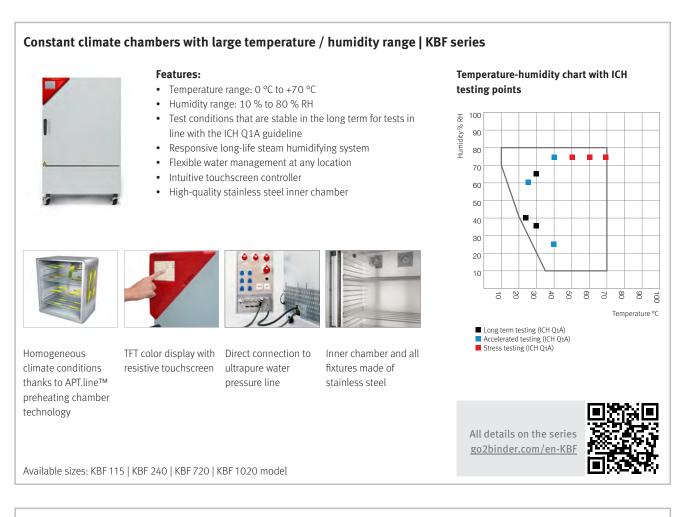
Product development and quality assurance focus primarily on achieving and monitoring performance objectives. Durability tests and functional tests of materials, products and systems are prerequisites in this process. A climate chamber has to be able to reproducibly simulate the effects of temperature, humidity and light on the test material. Particularly for these requirements, BINDER offers a line of constant climate chambers, which are ideal for providing precise and long-term stable tests. If dynamic climate changes are required, our dynamic climate chambers offer innovative technical solutions and extensive equipment options. They are perfectly aligned with standards and customer requirements, and ensure that active or passive test samples can be tested reliably.





**Stability tests** KBF | KBF P | KBF LQC | KBF-S | KMF constant climate chambers

Material tests MK | MKT | MKF | MKFT dynamic climate chambers



#### Constant climate chambers with large temperature / humidity range | KBF-Solid.Line series



#### Features:

- Temperature range: 0 °C to +70 °C
- Humidity range: 20 % to 80 % RH
- Suitable for long-term tests and accelerated stability tests in line with ICH Q1A
- Humidity regulation with capacitive humidity sensor and steam humidification
- Inner chamber made completely of stainless steel
- Independent water supply





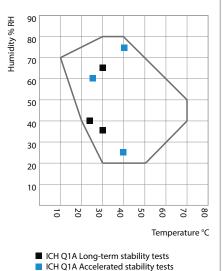




Homogeneous climate conditions thanks to APT.line™ preheating chamber technology

Precise humidification Inner chamber and all Water supply via tank fixtures made of stainless steel

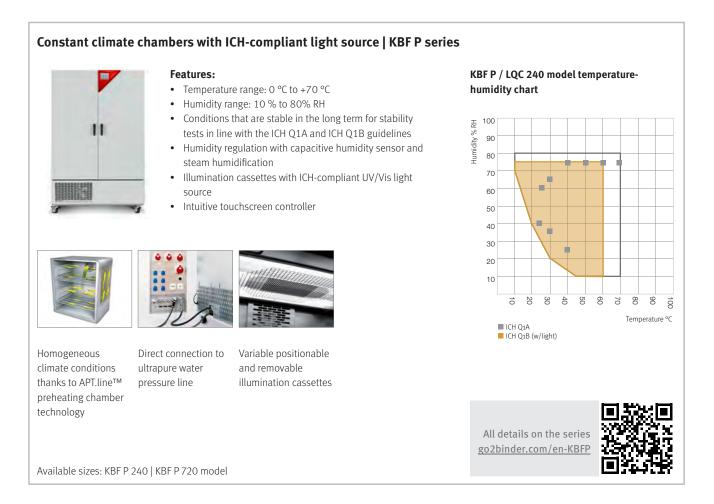
Temperature-humidity chart with ICH testing points



All details on the series go2binder.com/en-KBF-S

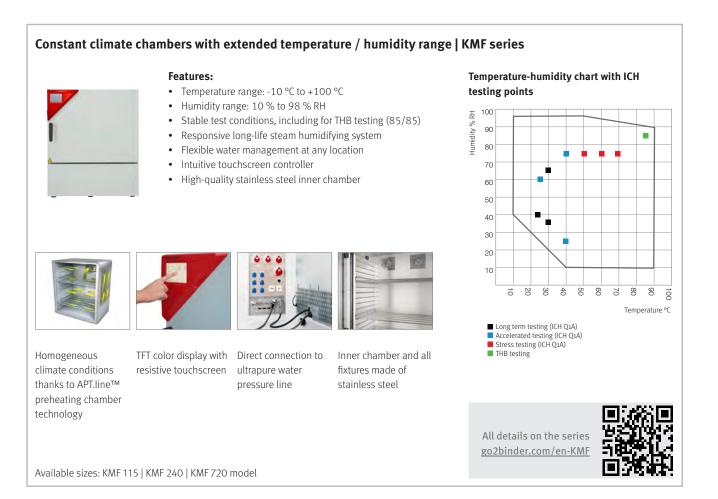


Available sizes: KBF S 115 | KBF S 240 | KBF S 720 | KBF S 1020 model



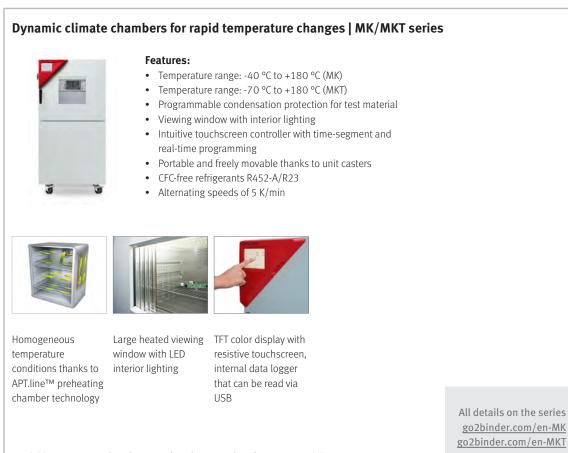
#### Constant climate chambers with ICH-compliant light source and light-dose control | KBF LQC series KBF P / LQC 720 model temperature-Features: humidity chart • Temperature range: 0 °C to +70 °C • Humidity range: 10 % to 80 % RH • Conditions that are stable in the long term for stability 100 문 tests in line with the ICH Q1A and ICH Q1B guidelines Humidity % 90 Humidity regulation with capacitive humidity sensor and steam humidification 80 Illumination cassettes with ICH-compliant UV/Vis light 70 t. source 60 Independent light-dose control using spherical sensors • 50 Intuitive touchscreen controller 40 ri. 30 20 10 20 30 40 50 8 8 8 70 10 Temperature °C ICH Q1A ICH Q1B (w/light) Homogeneous Direct connection to Variable positionable LQC light-dose control with spherical sensors climate conditions ultrapure water and removable thanks to APT.line™ pressure line illumination cassettes preheating chamber technology All details on the series go2binder.com/ en-KBFLQC Available sizes: KBF LQC 240 | KBF LQC 720 model 24 BINDER product overview

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### ACCESSORIES AND CONFIGURATIONS

BINDER PURE AQUA System	System for preparation or complete desalination of tap water, complete set containing safety pressure container, single-use cartridge, measuring device, and all necessary connecting parts KBF KBFP KBFLQC KMF series	
Water supply set	External, consisting of fresh and waste-water containers (20 liters each), cabling and external pump, for hanging from the back of the unit KBF KBFP KBFLQC KMF series	
White light LED strip lights	Suitable for illuminating the interior with low light intensities, easy to install, and provide flexible placement KMF series	





Available sizes: MK 56 | MK/MKT 115 | MK/MKT 240 | MK/MKT 720 model

	Temperature     Humidity rai	e range: -40 °C to +180 e range: -70 °C to +180 nge: 10 % to 98 % RH	°C (MKFT)	MKFT temperature-h	umidity cha	art	
	steam humi • Viewing win	dow with interior lightin chscreen controller with	g	E         80           70         60           50         50	A		
		igerants R452-A/R23 speeds of 5 K/min	10	40 B 30 20 10			
	-			3     8     8     6       A: Standard Climate ran       B: Time-limited operation	nge	Temper	8 ature
łomogeneous limate conditions hanks to APT.line™ oreheating chamber	Large heated viewing window with LED interior lighting	TFT color display with resistive touchscreen, internal data logger that can be read via	Integrated 20 L water- storage tank ensures a flexible water supply		_	CU 72	
echnology Available sizes: MKF 5	6   MKF/T 115   MKF/T 24	USB 0   MKF/T 720 model		All details on the s go2binder.com/er go2binder.com/en-	n-MKF		

### ACCESSORIES AND CONFIGURATIONS

Dry-air purge	Suitable for simulating a dry, cold climate. In the MKF and MKFT series, the temperature-humidity chart is significantly expanded, while the option of simulating current automotive industry standards, such as PV 1200 and PR 308.2, is also available. MK, MKF, MKT, and MKFT series	
BINDER PURE AQUA SERVICE	System for preparation or complete desalination of tap water, complete set containing safety pressure container, single-use cartridge, measuring device, and all necessary connecting parts. MK, MKF, MKT, and MKFT series	
Water cooling	For connecting to a building cooling water system, for reduced heat loss to ambient air. MK, MKF, MKT, and MKFT series	H <sub>2</sub> O

### **BINDER INDIVIDUAL**

#### Test chamber for energy storage devices | LIT series



#### Features:

- For executing aging and performance tests
- Additional safety equipment on the dynamic climate chamber
- Corresponds to Eucar/Hazard Level 4
- Package A for aging tests only
- Package P for performance and aging tests





Temperature range limited to +120 °C on the controller

Stainless steel pressure relief flap installed in the middle on top of the unit



Inert gas connections for rinsing (e.g., for nitrogen)

> All details on the series <u>go2binder.com/</u> en-BINDER-INDIVIDUAL

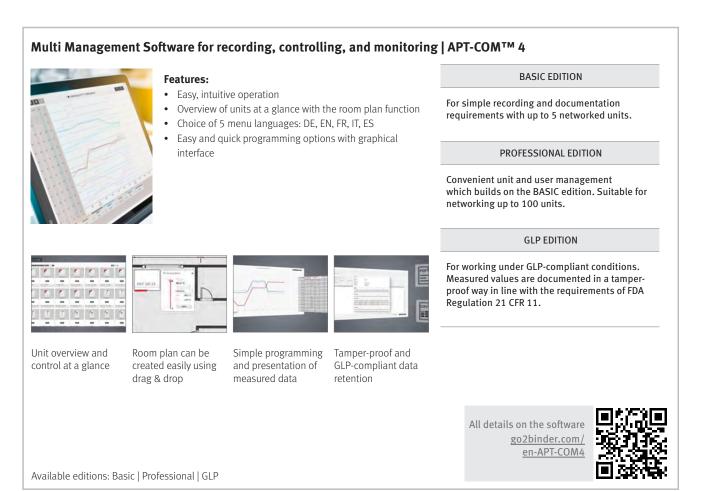


# Multi Management Software

BINDER's new Multi Management Software provides management, recording, programming, control, and documentation options, and much more. With features ranging from GLP-compliant recording to convenient program creation and management of up to 100 units, the APT-COM<sup>TM</sup> 4 can be used in all industries and makes complex work processes much easier.



**APT-COM™ 4** Multi Management Software Basic | Professional | GLP



## ACCESSORIES

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**TIPS AND TRICKS** 

Highlights of APT-COM<sup>™</sup> 4 can be found here:

Video: > go2binder.com/en-APT-COM4

# Options & accessories

We offer our customers a comprehensive selection of options and accessories for BINDER temperature, climate and, environmental simulation chambers.

You will find all options and accessories suitable for each of our products on our website www. binder-world.com

#### TIPS AND TRICKS

You can find our complete range of options and accessories at: > go2binder.com/en-options



# The ideal complement for the BINDER chamber





The outstanding performance of BINDER simulation chambers is not just a result of our groundbreaking, German-engineered technologies but also of our first-class range of services. Vital services including unit maintenance, calibration, and qualification, as well as fulfillment of spare parts requests, are available to our customers all over the world. Customers can access these services either individually or through a highly cost-effective and convenient maintenance contract.







#### TIPS AND TRICKS

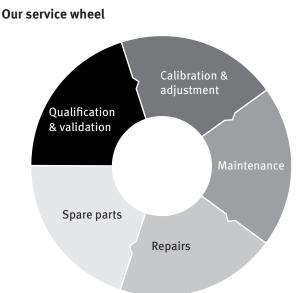
You can find more information at: > go2binder.com/en-service



# **Services** Another plus for BINDER simulation chambers

BINDER units offer clear benefits for laboratory practice. Their outstanding performance is the result of both our groundbreaking, "made in Germany" technologies and our bespoke service.

The comprehensive service package is available to our customers all over the world. You have the option of choosing a highly cost-effective, convenient service contract or you can opt for our services on an individual basis.



# **Service contracts** Regular service – maximum performance

With the durable BINDER simulation chambers, consistently high levels of productivity and availability are part of the package right as soon as they leave the factory. What's more, our preventive inspection and maintenance guarantee maximum performance over the entire service life of the unit.

#### A service contract gives you more security and has a number of particularly impressive benefits:

- Maximum productivity
- Planning security: all-round check on fixed dates
- Calibration and adjustment of BINDER units
- Discount on BINDER original spare parts
- Software updates (APT-COM™)

- Implementation by qualified and authorized specialists
- Extended warranty
- Discounted charge rate for service technicians
- Fixed-price annual maintenance for 3 years

# **Training courses & seminars** Know-how and training – knowledge creates a competitive edge

Along with our leading product portfolio, here at BINDER, we also offer a training program aimed at both users and our service employees and partners. Our BINDER experts, with their many years of experience, carry

out the training and give the participants exclusive access to the latest technical topics from our product range.

# BINDER INDIVIDUAL

BINDER INDIVIDUAL units are based on BINDER simulation chambers, which consistently offer outstanding quality made in Germany.

In our BINDER INDIVIDUAL department at the Tuttlingen plant, we turn your unique requirements into reality. Be it stainless steel housing, special access ports,  $O_2$  regulation, or much more, we use a proven series production product to create your customized solution. This solution is developed by our experts and manufactured as a single unit or in small series production.







# **BINDER INDIVIDUAL**

# Individual extras for your simulation chamber

Even though the BINDER product range contains an incredibly wide variety of products and equipment options, some highly specific customer requirements still cannot be met by a unit manufactured in series production. We can, however, adapt these units to fit individual requirements profiles. Our BINDER INDIVIDUAL units are based on BINDER simulation chambers, which consistently offer outstanding quality made in Germany. In our BINDER INDIVIDUAL department at the Tuttlingen plant, we turn every unique requirement into reality. Be it stainless steel housing, special access ports, O<sub>2</sub> regulation, or much more, we use a proven series production product to create a perfectly customized solution. This solution is developed by our experts and manufactured as a single unit or in small series production before being tested, certified, and provided with a full functional guarantee and warranty.

#### BINDER series production unit

Series production products offer guaranteed premium quality.



Series production heating chamber

# BINDER series production unit & optional series production equipment

With accessories and equipment options, series production products can be optimized for popular requirements profiles.



Heating chamber with viewing window option and Pt 100 sensor

#### BINDER INDIVIDUAL

Highly specialized individual solutions are the result of the custom modifications and enhancements made to series production units.



Heating chamber with stainless steel housing



#### Benefits across the board

- TIME-SAVING individual solutions are based on BINDER series production units that are kept in stock
- **ECONOMICAL** consulting, costing, and proposals for solutions are free of charge
- **INNOVATIVE** integrated solutions thanks to individual technical consultations
- IMPRESSIVE execution of individual requirements is simple and affordable
- **RELIABLE** thanks to BINDER's premium German-made quality
- COMPLETELY STRESS-FREE full warranty for the unit including all enhancements
- FAST unit delivered about 4-8 weeks after order is placed

#### TIPS AND TRICKS

More information about BINDER INDIVIDUAL is available at: > go2binder.com/en-BINDER-INDIVIDUAL



### Product range

CO <sub>2</sub> incubators
Standard incubators
Cooling incubators
Growth chambers
Ultra low temperature freezers
Drying and heating chambers
Safety drying chambers
Vacuum drying chambers
Constant climate chambers
Dynamic climate chambers
Multi Management Software
Don't miss out on our latest products – Stay up to date with our BINDER newsletter

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Best conditions for your success

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