# Model KBF PRO 130 | 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.

## BENEFITS

- Reliable and powerful thanks to innovative temperature control technology
- Reliable: failsafe operation over the long term thanks to proven compressor technology and inner chamber made of stainless steel
- Smart: signal triangle with light-up status display, ergonomic control terminal with touchscreen program controller, rack with telescopic rails
- Efficient: low energy consumption thanks to modern inverter cooling technology





Model 130



## **IMPORTANT FEATURES**

- Temperature range: -20 °C to +100 °C
- Humidity range: 10% to 98% RH
- Proven APT.line<sup>™</sup> 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-290 refrigerant
- Door heating to prevent condensation
- Adjustable fan speed
- Humidity regulation with capacitive humidity sensor and responsive steam
  humidification
- Sturdy housing design with HIT sandwich technology
- Stainless-steel inner chamber

- Inner doors made of metal oxide-coated safety glass
- Two racks made of stainless steel
- Ø 30 mm access port with silicone plug
- Stackable
- Intuitive touchscreen controller with time-segment and real-time programming
- 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

#### ORDERING INFORMATION

Interior volume [L]	Power supply - unit fuse	Plug*	Version	Model version	ArtNo.
Model KBF PRO 130					
127	208240 V 1~ 50/60 Hz -16,0 A	CEE 7/7	Standard	KBFPRO130-230V	9020-0439



# TECHNICAL DATA

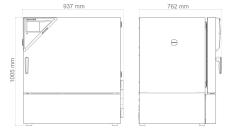
Aride Number      pare 0.230        Appior model      Standard        Performance User Conservation      Standard        Performance User Conservation      Standard Conservation        Performance User Conservation      Standard Conservation        Performance Data Conservation      Standard Conservation		
Add windle  Add windle	Data	
Primare bial respective        Reformance bial respective        Temperature stage        Anal. Net compensation at ACC.        Professione bial respective        Professione bial respective bial respective        Professione bial respective bial respective bial respective bial respective bial respective        Professione bial respective bial respective        Professione bial re	Designation	KBFPRO130-230V
Performance Data Temperature      Seamond Cata Temperature range      Seamond C	Article Number	9020-0439
Temperature range      20100 °C        Max. heat compensation at 40°C      450 W        Performance Data Climate      50.90 °C        Temperature range with humidity      00.90 °C        Humidity range      00.90 °C        temperature uniformity at 95°C and 65% BH      00.90 °C        Temperature uniformity at 95°C and 65% BH      00.90 °C        Temperature uniformity at 95°C and 65% BH      00.90 °C        Temperature functuation at 95°C and 65% BH      00.91 K        Temperature functuation at 95°C and 65% BH      01.8 K        Humidity functuation at 25°C and 65% BH      01.8 K        Humidity functuation at 25°C and 65% BH      01.8 K        Humidity functuation at 25°C and 65% BH      01.8 K        Humidity functuation at 25°C and 65% BH      01.8 K        Humidity functuation at 25°C and 65% BH      10.9 K        Humidity functuation at 25°C and 65% BH      10.9 K        Humidity functuation at 25°C and 65% BH      10.9 K        Humidity functuation at 40°C and 75% BH      10.9 K        Humidity functuation at 40°C and 75% BH      10.9 K        Humidity functuation at 40°C and 75% BH      10.8 K        Humidity functuation at 40°C and 75% BH      10.9 K	Option model	Standard
Ass. heat compensation at Ap <sup>C</sup> C      Ago W        Performance Data Climate      Integrature tange with humidity        Integrature tange with humidity      Integrature tange with humidity        Humidity mage      Integrature tange with humidity        Temperature uniformity at ap <sup>C</sup> and 60% RH      Integrature uniformity at ap <sup>C</sup> and 60% RH        Temperature uniformity at ap <sup>C</sup> and 60% RH      Integrature uniformity at ap <sup>C</sup> and 50% RH        Temperature fluctuation at ap <sup>C</sup> Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Humidity fluctuation at ap <sup>C</sup> Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Humidity fluctuation at ap <sup>C</sup> Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Humidity fluctuation at ap <sup>C</sup> Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Recovery time after door was opened for 30 at 27° Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Recovery time after door was opened for 30 at 27° Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 50% RH        Recovery time after door was opened for 30 at 27° Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Recovery time after door was opened for 30 at 27° Cand 60% RH      Integrature fluctuation at ap <sup>C</sup> Cand 60% RH        Normal Door at ap <sup>C</sup> Cand Cand Cand Cand Cand Cand Cand Cand	Performance Data Temperature	
Performance Data Climate        temperature range with hunsidiy      1090 °C        Hunsidiy range      1096 % BH        temperature uniformity at 25°C and 60% BH      0.2 × K        Temperature uniformity at 45°C and 50% BH      0.2 × K        Temperature uniformity at 45°C and 50% BH      0.2 × K        Temperature fluctuation at 25°C and 60% BH      0.1 × K        Hunsidity fluctuation at 25°C and 60% BH      0.1 × K        Hunsidity fluctuation at 25°C and 60% BH      0.1 × K        Hunsidity fluctuation at 25°C and 60% BH      0.1 × K        Hunsidity fluctuation at 25°C and 60% BH      0.1 × K        Hunsidity fluctuation at 25°C and 60% BH      110 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      110 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      100 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      100 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      100 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      100 × K        Normital borger      10.8 × K        Recovery time after door was opened for 30 s at 25°C and 60% BH      10.8 × K        Normital borger	Temperature range	-20100 °C
Temperature range with humidity      1090 °C        Humidity range      090 °C        Temperature uniformity at 20°C and 65% RH      0.2 ± K        Temperature fluctuation at 20°C and 65% RH      0.2 ± K        Temperature fluctuation at 20°C and 65% RH      0.2 ± K        Temperature fluctuation at 20°C and 75% RH      0.2 ± K        Humidity fluctuation at 20°C and 75% RH      0.1 ± K        Humidity fluctuation at 20°C and 75% RH      1.2 ± K RH        Recovery time after door was opened for 30 s at 20°C and 65% RH      1.2 ± K RH        Recovery time after door was opened for 30 s at 20°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 20°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Recovery time after door was opened for 30 s at 40°C and 75% RH      3 min        Nomical power      3 0.60 ± 10 ± 10 ± 10 ± 10 ± 10 ± 10 ± 10 ±	Max. heat compensation at 40°C	450 W
humidity ange      109% RH        Temperature uniformity at 25% and 60% RH      024 K        temperature uniformity at 25% and 60% RH      024 K        temperature fluctuation at 25% and 60% RH      01K        temperature fluctuation at 25% and 60% RH      01K        temperature fluctuation at 25% and 60% RH      12K        turnidity fluctuation at 40% and 75% RH      12K        Recovery time after door was opened for 30S at 60% RH      11K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Recovery time after door was opened for 30S at 60% RH      31K        Normital power      31K        Interface      32K        Directors at weig	Performance Data Climate	
Temperature uniformity at 25°C and 65% RH    0.2 ± K      Temperature fluctuation at 25°C and 65% RH    0.1 ± K      Temperature fluctuation at 25°C and 65% RH    0.1 ± K      Humidity fluctuation at 25°C and 65% RH    0.1 ± K      Humidity fluctuation at 25°C and 65% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 65% RH    1 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 65% RH    3 min      Nominal voltage    3 min      Power frequency	Temperature range with humidity	1090 °C
Temperature uniformity at 40°C and 75% RH    0.2 ± K      Temperature fluctuation at 25°C and 60% RH    0.1 ± K      Temperature fluctuation at 25°C and 60% RH    0.1 ± K      Huridity fluctuation at 25°C and 60% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 60% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 55% RH    3 min      Norminal power    1 ± 60°C      Norminal power    1 ± 60°C      Interior volume    1 ± 21°C </td <td>Humidity range</td> <td>1098 % RH</td>	Humidity range	1098 % RH
Temperature fluctuation at 25°C and 60% RH    0.1 ± K      Temperature fluctuation at 40°C and 75% RH    1 ± % RH      Hunidhy fluctuation at 40°C and 75% RH    1 ± % RH      Hunidhy fluctuation at 40°C and 75% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Recovery time after door was opened for 30 s at 25°C and 50% RH    3 min      Notification    1.2 k      Notification    1.2 k      Inteior volume    1.2 k   <	Temperature uniformity at 25°C and 60% RH	0.2 ± K
Temperature fluctuation at 40°C and 75% RH    0.1 ± K      Humidity fluctuation at 25°C and 65% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 66% RH    1 min      Recovery time after door was opened for 30 s at 25°C and 75% RH    3 min      Recovery time after door was opened for 30 s at 40°C and 75% RH    3 min      Recovery time after door was opened for 30 s at 40°C and 75% RH    30min      Betchtcal data    208240 V      Power frequency    50/60 Hz      Normal power    1,0 kW      Unit fuse    1,0 kA      Phase (Normal voltage)    1-0      Phase (Normal voltage)    1,0 kA      Interior voltame    127 L      Netweight of the unit (empty)    12 k g      Interior voltame    12 k g	Temperature uniformity at 40°C and 75% RH	0.2 ± K
Humidity fluctuation at 2p°C and 6p% RH    1 % RH      Humidity fluctuation at 4p°C and 75% RH    1 min      Recovery time after door was opened for 3p s at 2p°C and 6p% RH    1 min      Recovery time after door was opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Retor vas opened for 3p s at 4p°C and 75% RH    3 min      Nominal power    50/60 Hz      Nominal power    1,9 kW      Unit fuse    1,9 kW      Discons and weights    1 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 - 0 -	Temperature fluctuation at 25°C and 60% RH	0.1 ± K
Humidity fluctuation at 40°C and 75% RH    1 ± % RH      Recovery time after door was opened for 30 s at 25°C and 60% RH    3 min      Recovery time after door was opened for 30 s at 40°C and 75% RH    3 min      Electrical data    3 min      Electrical data    508240 V      Power frequency    50/60 Hz      Nominal power    1,9 kW      Unit fuse    1,0,0 A      Plase (Nominal voltage)    1-      Plase (Nominal voltage)    1-      Interfor volume    127 L      Netweight of the unit (empty)    4,2 kg	Temperature fluctuation at 40°C and 75% RH	0.1 ± K
Recovery time after door was opened for 30 s at 25°C and 60% RH    1 min      Recovery time after door was opened for 30 s at 40°C and 75% RH    3 min      Etercical data    3 min      Etercical data    208240 V      Power frequency    50/60 Hz      Nominal power    1,9 kW      Unit fuse    1,0 A      Phase (Nominal voltage)    1-      Interior volume    127 L      Interior volume    142 kg      Lot oper rack    24 kg	Humidity fluctuation at 25°C and 60% RH	1 ± % RH
Recovery time after door was opened for 30 s at 40°C and 75% RH3 minElectical data208240 VRated Voltage50/60 HzPower frequency50/60 HzNominal power1.9 kWUnit fuse16.0 APhase (Nominal voltage)1-Interior volume127 LInterior volume128 kgLod per rack25 kg	Humidity fluctuation at 40°C and 75% RH	1 ± % RH
Electrical data      Rated Voltage    208240 V      Power frequency    50/60 Hz      Nominal power    1,9 kW      Unit fuse    16,0 A      Phase (Nominal voltage)    1~      Dimensions and weights    127 L      Interior volume    127 L      Lexing the function (empty)    142 kg      Load per rack    25 kg	Recovery time after door was opened for 30 s at 25°C and 60% RH $$	1 min
Rated Voltage208240 VPower frequency50/60 HzNominal power1.9 kWUnit fuse16.0 APhase (Nominal voltage)1~Dimensions and weights127 LInterior volume127 LNet weight of the unit (empty)142 kgLoad per rack25 kg	Recovery time after door was opened for 30 s at 40°C and 75% RH	3 min
Power frequency50/60 HzNominal power1.9 kWUnit fuse16,0 APhase (Nominal voltage)1~Dimensions and weights127 LInterior volume142 kgLoad per rack25 kg	Electrical data	
Nominal power1,9 kWUnit fuse16,0 APhase (Nominal voltage)1~Dimensions and weights127 LInterior volume142 kgLoad per rack25 kg	Rated Voltage	208240 V
Unit fuse16,0 APhase (Nominal voltage)1~Dimensions and weights127 LInterior volume142 kgNet weight of the unit (empty)25 kg	Power frequency	50/60 Hz
Phase (Nominal voltage)    1~      Dimensions and weights    127 L      Interior volume    142 kg      Load per rack    25 kg	Nominal power	1,9 kW
Dimensions and weights      Interior volume    127 L      Net weight of the unit (empty)    142 kg      Load per rack    25 kg	Unit fuse	16,0 A
Interior volume  127 L    Net weight of the unit (empty)  142 kg    Load per rack  25 kg	Phase (Nominal voltage)	1~
Net weight of the unit (empty)  142 kg    Load per rack  25 kg	Dimensions and weights	
Load per rack 25 kg	Interior volume	127 L
	Net weight of the unit (empty)	142 kg
Permitted load	Load per rack	25 kg
	Permitted load	50 kg



Wall clearance back	100 mm
Wall clearance sidewise	100 mm
Housing dimensions not incl. fittings and connections	
Width net	900 mm
Height net	1,005 mm
Depth net	710 mm
Internal Dimensions	
Interior width	656 mm
Interior height	500 mm
Interior depth	386 mm
Inner doors	1
Unit doors	1
Environment-specific data	
Sound-pressure level at 25°C and 60% RH	46 dB(A)
Energy consumption at 25°C and 60% RH	235 Wh/h
Energy consumption at 40°C and 75% RH	255 Wh/h
Energy consumption at 85°C and 85% RH	345 Wh/h
Fixtures	
Number of shelves (std./max.)	2/6

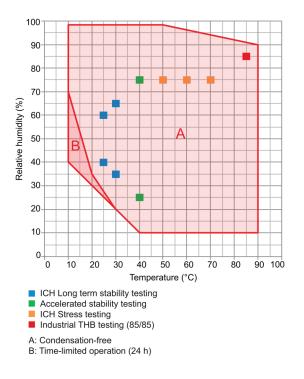
All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C  $\pm 3$  °C and a power supply voltage fluctuation of  $\pm 10$  %. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended 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
	right		
	30 mm	01	8012-2492
Access port with silicone plug	50 mm	01	8012-2493
	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
Calibration certificate, expanded for temperature and humidity; for extending the measurement in center of chamber to include another test value		-	8012-2576

#### BINDER Best conditions for your success

Designation	Description	*	ArtNo.
	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
	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	-	8012-2582
Door lock	lockable door handle	-	8012-2538
Door lock, electromechanical	can be opened with PIN code via controller	-	8012-2540
nner chamber, reinforced	max. total load 100 kg	-	8012-2524
nterior lighting	With climate-resistant LEDs, switches when the unit door is opened	-	8012-2562
pecimen temperature display	Flexible Pt 100 indoor temperature sensor, for object temperature display or control	-	8012-2554

# 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-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
Edition	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
Commentary with the	to operate the device at a nominal voltage of 120 V 1 ph 60 Hz		
Converter, voltage	240 V option model	-	8009-0821
	Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz		
LED light bars	Basic set 300, length 30 cm	-	8012-1107
	– 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

## BINDER Best conditions for your success

Designation	Description		ArtNo.
	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
Shalf rack parforated	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
Standard rack	Shelf rack in set with pair of retaining rails (U rails), made entirely of stainless steel		
σταπυάτα ταυκ	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	*	ArtNo.
Calibration services			
Tomperature and humidity calibration	Expansion –Temperature and humidity calibration with 1 measuring point in center of chamber with 1 specified pair of values, including certificate	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	05	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	05	DL30-0309
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	05	DL30-0318

#### BINDER Best conditions for your success

Designation	Description	*	ArtNo.
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	05	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	05	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)	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			
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
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
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	05	DL20-0613
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	05	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.
- O5 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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# **BINDER Environmental Testing**

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