



# 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.





Model 130

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
- Housing design with HIT technology
- Stainless-steel inner chamber
- · Inner doors made of metal oxide-coated safety glass
- Two racks with stainless-steel telescopic rails
- 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	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

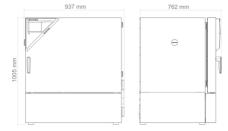
DataDesignationKBFPR0130-230VArticle Number9020-0439Option modelStandard	
Article Number 9020-0439	
Option model Standard	
Performance Data Temperature	
Temperature range -20100 ℃	
Max. heat compensation at 40°C 450 W	
Performance Data Climate	
Temperature range with humidity 1090 °C	
Humidity range 1098 % RH	
Temperature uniformity at 25°C and 60% RH 0.2 ± K	
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 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	
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	
Interior volume 127 L	
Net weight of the unit (empty) 142 kg	
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	



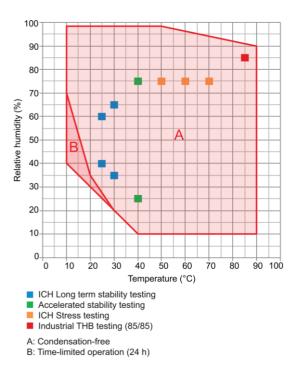
Width net	900 mm
Height net	1,005 mm
Depth net	710 mm
Internal Dimensions	
Interior width	656 mm
Interior height	500 mm
Interior depth	386 mm
Inner doors	1
Unit doors	1
Environment-specific data	
Energy consumption at 25°C and 60% RH	235 Wh/h
Energy consumption at 40°C and 75% RH	255 Wh/h
Energy consumption 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  $\pm 2^{\circ}$  C  $\pm 3^{\circ}$  C and a power supply voltage fluctuation of  $\pm 10^{\circ}$  %. 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 part with cilicans plus	30 mm	01	8012-2492
Access port with silicone plug	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



temperature measurement incl. certificate, 9 measuring points at specified temperature  temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate and 27 measuring points at specified temperature  temperature in center of chamber at 25°C / 60% RH or at specified text values   Measurement in center of chamber at 25°C / 60% RH or at specified text values   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material   Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material    Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrotive sample material    Coated heat exchanger   For preventing damage to the aluminum heat exchanger caused by corrotive sample material     Coated heat exchanger   For preventing damage to the aluminum heat exchanger caused by corrotive sample material     Coated heat exchanger   For preventing damage to the aluminum heat exchanger caused by corrotive sample material      Coated heat exchanger   For preventing damage to the aluminum heat exchanger caused by corrotive sample material     Coated heat exchanger   For preventing damage to the aluminum heat exchanger caused by corrotive sample material      Coated heat exchanger   For preventing dama				
temperature measurement incl. certificate, 9 measuring points at specified temperature  temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate, 27 measuring points at specified temperature  **Measurement in center of chamber at 25°C / 60°N RH or at specified test values  **Lemperature and humidity  temperature (according to DINV 2800) and humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points at specified temperature and temperature measuring points at specified temperature and temperature measuring points at specified temperature and tem	Designation	Description	*	ArtNo.
Costed heat exchanger  Measurement incl. certificate, 15-18 measuring points at specified temperature  **Measurement incl. certificate and 27 measuring points at specified temperature  **Measurement incl. certificate and 27 measuring points at specified temperature  **Measurement incl. certificate and 27 measuring points at specified temperature  **Measurement inclenter of chamber at 25°C / 60°N RH or at specified test values  **Lancoration cortrocate, temperature (excording to DINI 2880) and humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measuring point, at 25°C / 60°N RH or at specified values  **Costed heat exchanger  **Por preventing damage to the aluminum heat exchanger caused by corrosive sample material  **Points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 27 temperature measuring points and 1 humidity measurement incl. certificate, 28 temperature measuring points and 1 humidity measurement incl. certificate, 28 temperature measuring points, 28 temper	•			8012-2576
temperature temperature measurement incl. certificate, 15-18 measuring points at specified temperature  temperature measurement incl. certificate and 27 measuring points at specified test values  Measurement in center of chamber at 25°C / 60% RN or at specified test values  Measurement incl. certificate and 27 measuring points at specified test values  Measurement in center of chamber at 25°C / 60% RN or at specified test values  Lemperature measuring point, at 25°C / 60% RN or at specified test values  Lemperature measuring point, at 25°C / 60% RN or at specified values  Coded heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrosive sample material  - 8012-256  Door lock lockable door handle  - 8012-256  Door lock dectromechanical  can be opened with PIN code via controller  - 8012-256  Interior lighting  With dimate resistant LEDs, switches when the unit door is opened  - 8012-256  COCCESSORIES  Designation  Description  Plexible Pt 100 indoor temperature sensor, for object temperature display or control  - 9012-256  COCCESSORIES  Designation  Description  Description  For working under GLP-compliant conditions, Measured values are documented in a tamper-groof way in line with the requirements of FDA Regulation 21 CRR 11.  version 4, GLP edition  - 9053-004  APT-COM™ 4 GLP-Edition  For working under GLP-compliant conditions, Measured values are documented in a tamper-groof way in line with the requirements of FDA Regulation 21 CRR 11.  version 4, GLP edition  - 9053-004  Section 4, GLP edition  - 9053-004  Section 5, GLP edition  - 9053-004  Section 6, GLP edition  - 9053-004  Section 7, PROFESSIONAL edition  - 9053-004  Section 7, PROFESSIONAL edition  - 9053-004  Section 7, PROFESSIONAL edition  Section 6, GLP edition or complete desaination of the water, complete set containing PURE AQUA 300 single-use cardidge, measuring device, and all necessary connecting parts  Bibliops PURE AQUA SENICE,  Section 7, PROFESSIONAL edition  Section 7, PROFESSIONAL edition  Basic est 300, le	·	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-2379
Measurement in center of chamber at 25°C / 60% RH or at specified test values  - 8012-243  temperature (according to DIN12880) and humidity measuring point, at 25°C / 60 % RH or at specified values  - 8012-258  Coded heat exchanger  For preventing damage to the aluminum heat exchanger coused by corrosive sample material  - 8012-258  Door lock  lockable door handle  - 8012-258  Door lock, electromechanical  can be opened with PIN code via controller  - 8012-258  Door lock, electromechanical  can be opened with PIN code via controller  - 8012-258  Interior lighting  With climate-resistant LEDs, switches when the unit door is opened  - 8012-256  ACCESSORIES  Designation  Description  ArtNo.  Tor working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 22 CFR 11.  version 4, ROP-Edition  for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 22 CFR 11.  version 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 22 CFR 11.  version 4, PROFESSIONAL-  for working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 22 CFR 11.  version 4, PROFESSIONAL-  version 4, PROFESSIONAL edition  - 9053-004  Base  With swivel casters, for mobile installation or leveling of the unit or stack of units  - 9053-004  Stription or representation or complete desalination or leveling of the unit or stack of units  - 9053-004  Stription or preparation or complete desalination or leveling of the unit or stack of units  - 9053-004  Stription or preparation or complete desalination or leveling of the unit or stack of units  - 9053-004  Stription or preparation or complete desalination or leveling of the unit or stack of units  - 9053-004  Stription or preparation or complete desalin		temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-2383
Latinotation corticitate, 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 for at specified values  Coated heat exchanger  For preventing damage to the aluminum heat exchanger caused by corrosive sample material  - 8012-258  Door lock (ockable door handle  - 8012-258  Door lock, electromechanical  can be opened with PIN code via controller  - 8012-258  Interior lighting  With climate-resistant LEDs, switches when the unit door is opened  - 8012-256  ACCESSORIES   ACCESSORIES  ACCESSORIES  Designation  Description  Proving under GLP-compilant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CPR 11.  version 4, ROP-EstilonAL.  APT-COM™ 4 GLP-Edition  For working under GLP-compilant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 CPR 11.  version 4, ROP-ESSIONAL.  Convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.  APT-COM™ 4 FROFESSIONAL.  SINDER PUBE AQUA SERVICE.  Single-use, replacement cartridge for BINDER PURE AQUA System  Convenient unit and user management cartridge for BINDER PURE AQUA System  Basic set 200, length 30 cm  Basic set 500, length 50 cm  Box 25 °C 50 °C 80		temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-2427
temperature and humidity between the presentative according to DINI/2809 and humidity measurement incl. certificiae, 27 temperature measuring points and 1 humidity measuring point, at 25 °C / 60 % RH or at specified values  For preventing damage to the aluminum heat exchanger caused by corrosive sample material  Coord lock lockable door handle  Coord lock lockable door handle  Coord lock lockable door handle  Converting the properature display interior lighting  With climate resistant LEDs, switches when the unit door is opened  The properature display interior lighting  With climate resistant LEDs, switches when the unit door is opened  Flexible Pt 100 indoor temperature sensor, for object temperature display or control  Flexible Pt 100 indoor temperature sensor, for object temperature display or control  CCCESSORIES  Designation  Description  For working under GLP-compliant conditions. Measured values are documented in a tamper-proof way in line with the requirements of FDA Regulation 21 GTR 11.  version 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 GTR 11.  version 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 GTR 11.  version 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 GTR 11.  version 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 of TDA Regulation. Suitable for networking up to 100 units.  version 4, PROFESSIONAL-  version 4, PROFESSIONAL-  version 4, PROFESSIONAL edition  For working under GLP-compliant conditions of tap water, complete sec containing PURE AQUA 300 single-  version 4, PROFESSIONAL edition  For working under GLP-compliant condi		Measurement in center of chamber at 25°C / 60% RH or at specified test values	-	8012-2438
Door lock lockable door handle - 8012-2538 Door lock, electromechanical can be opened with PTN code via controller - 8012-2544 Inner chamber, reinforced max. total load 100 kg - 8012-2544 Inner chamber, reinforced max. total load 100 kg - 8012-2546 Interior lighting With climate-resistant LEDs, switches when the unit door is opened - 8012-2556 Specimen temperature display Plexible Pt 100 indoor temperature sensor, for object temperature display or control - 8012-2556  CCCESSORIES  Designation Description for working under GLP-compiliant 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 - 9053-004  APT-COM™ 4 PROFESSIONAL-  Version 4, PROFESSIONAL-  Version 4, PROFESSIONAL edition - 9053-004  With swivel casters, for mobile installation or leveling of the unit or stack of units - 9051-0045  SINDER PURE AQUA SERVICE System for preparation or complete desalination of tap water, complete set containing PURE AQUA 300 single- use carridge, measuring device, and all necessary connecting parts  Single-use, replacement cartridge for BINDER PURE AQUA System - 6011-0165  Basic set 300, length 30 cm - 8012-1107  Basic set 500, length 50 cm - 8012-1108			-	8012-2578
Door lock, electromechanical can be opened with PIN code via controller - 8012-254 Interior lighting max. total load 100 kg - 8012-256 Interior lighting With climate-resistant LEDs, switches when the unit door is opened - 8012-256 Specimen temperature display Flexible Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  CCCESSORIES  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control - 8012-256  Description Percentage of the public Pt 100 indoor temperature sensor, for object temperature display or control max in the properature display or control units - 9053-404  Version 4, GLP-Edition Percentage of Pt 100 indoor temperature sensor, for object temperature display or control units  COCCESSORIES  Description Percentage of Pt 100 indoor temperature sensor, for object temperature display or control  Version 4, GLP-Edition Percentage of Pt 100 indoor temperature sensor, for object temperature display or control  Version 4, GLP-Edition Percentage of Pt 100 indoor temperature sensor, for object temperature display or control  Version 4, GLP-Edition Percentage or properature sensor, for object temperature display or control  Version 4, GLP-Edition Percentage or properature sensor, for object temperature display or control  Version 4, GLP-Edition Percentage or properature display or control  Version 4, GLP-Edition Percentage or properature display or control  Version 4, GLP-Edition Percentage or properature display or control  Versio	Coated heat exchanger	For preventing damage to the aluminum heat exchanger caused by corrosive sample material	-	8012-2582
nner chamber, reinforced max. total load 100 kg - 8012-2554  nterior lighting With climate-resistant LEDs, switches when the unit door is opened - 8012-2565  Specimen temperature display Flexible Pt 100 indoor temperature sensor, for object temperature display or control - 8012-2565  CCCESSORIES  Designation Description * ArtNo.  Ar	Door lock	lockable door handle	-	8012-2538
Interior lighting  With climate-resistant LEDs, switches when the unit door is opened  - 8012-2564  Specimen temperature display  Flexible Pt 100 indoor temperature sensor, for object temperature display or control  - 8012-2564  CCCESSORIES  Designation  Description  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  version 4, GLP edition  convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.  version 4, PROFESSIONAL-edition  version 4, PROFESSIONAL edition  version 4, PROFESSIONAL edition  - 9053-004  SINDER PURE AQUA SERVICE  System for preparation or complete desalination or leveling of the unit or stack of units  - 9051-004:  SinDER PURE AQUA SERVICE  Single-use, replacement cartridge for BINDER PURE AQUA System  - 6011-0165  Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz  Basic set 500, length 50 cm  - 8012-1108	Door lock, electromechanical	can be opened with PIN code via controller	-	8012-2540
Specimen temperature display Flexible Pt 100 indoor temperature sensor, for object temperature display or control - 8012-2554  CCESSORIES  Designation Description * ArtNo.  A	inner chamber, reinforced	max. total load 100 kg	-	8012-2524
Description  Description  Description  PT-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.  PT-COM™ 4 GLP-Edition  PT-COM™ 4 PROFESSIONAL-  Convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.  PT-COM™ 4 PROFESSIONAL-  Version 4, PROFESSIONAL edition  PO53-004  Base  With swivel casters, for mobile installation or leveling of the unit or stack of units  PO51-0045  SINDER 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  Single-use, replacement cartridge for BINDER PURE AQUA System  PO51-0165  Basic set 300, length 30 cm  Basic set 500, length 50 cm  PO51-1108	nterior lighting	With climate-resistant LEDs, switches when the unit door is opened	-	8012-2562
Description  Description  Description  ArtNo.  ArtNo.  ArtNo.  Description  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.  APT-COM™ 4 GLP-Edition  Perform 4 PROFESSIONAL-  Convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.  Version 4, PROFESSIONAL edition  Perform 4 PROFESSIONAL edition  Perform 5 Approved a professional distribution of the unit or stack of units  SINDER 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  SinDER PURE AQUA SERVICE, Single-use, replacement cartridge for BINDER PURE AQUA System  Basic set consisting of 2 pieces, attachment material, control unit for max. 4 light strips, 100-240 V, 50/60 Hz  Basic set 500, length 30 cm  Basic set 500, length 50 cm  ArtNo.  Possion  ArtNo.  Possion  ArtNo.  Possion  Possion  ArtNo.  Possion  Possion  ArtNo.  Possion  Possion  ArtNo.  Possion  Possio	Specimen temperature display	pecimen temperature display Flexible Pt 100 indoor temperature sensor, for object temperature display or control		8012-2554
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  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  - 9053-004  With swivel casters, for mobile installation or leveling of the unit or stack of units  - 9051-0048  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  Single-use, replacement cartridge for BINDER PURE AQUA System  - 6011-0165  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  - 8012-1108	ACCESSORIES			
With the requirements of FDA Regulation 21 CFR 11.  version 4, GLP edition - 9053-004.  APT-COM™ 4 PROFESSIONAL- Edition - 9053-004.  APT-COM™ 4 PROFESSIONAL- Edition - 9053-004.  With swivel casters, for mobile installation or leveling of the unit or stack of units - 9051-0048.  Base With swivel casters, for mobile installation or leveling of the unit or stack of units - 9051-0048.  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 - 6011-0165  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	*	ArtNo.
APT-COM™ 4 PROFESSIONAL- Edition version 4, PROFESSIONAL edition — 9053-004  Base With swivel casters, for mobile installation or leveling of the unit or stack of units — 9051-0048  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 — 6011-0165  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 — 8012-1108  Basic set 500, length 50 cm — 8012-1108	APT-COM™ 4 GLP-Edition			
APT-COM™ 4 PROFESSIONAL-Edition  version 4, PROFESSIONAL edition  version 4, PROFESSIONAL edition  — 9053-004  Base  With swivel casters, for mobile installation or leveling of the unit or stack of units  — 9051-0045  Basin DER PURE AQUA SERVICE  Single-use, replacement cartridge for BINDER PURE AQUA System  — 6011-0165  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  Basic set 500, length 50 cm  — 8012-1108		version 4, GLP edition	-	9053-0042
version 4, PROFESSIONAL edition - 9053-004  Base With swivel casters, for mobile installation or leveling of the unit or stack of units - 9051-0049  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, Single-use, replacement cartridge for BINDER PURE AQUA System - 6011-0165  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	APT-COM™ 4 PROFESSIONAL-	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
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  SinDER PURE AQUA SERVICE, accessories  Single-use, replacement cartridge for BINDER PURE AQUA System  - 6011-0165  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	Edition	version 4, PROFESSIONAL edition	-	9053-0040
Use cartridge, measuring device, and all necessary connecting parts  SINDER PURE AQUA SERVICE, Single-use, replacement cartridge for BINDER PURE AQUA System  - 6011-0165  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	Base	With swivel casters, for mobile installation or leveling of the unit or stack of units	-	9051-0045
Basic set 300, length 30 cm  Basic set 500, length 50 cm	BINDER PURE AQUA SERVICE		-	8012-0759
Basic set 300, length 30 cm - 8012-1107  ED light bars  Basic set 500, length 50 cm - 8012-1108		Single-use, replacement cartridge for BINDER PURE AQUA System	-	6011-0165
ED light bars  Basic set 500, length 50 cm - 8012-1108	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 500, length 50 cm - 8012-1108		Basic set 300, length 30 cm	-	8012-1107
Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of 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		



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
Dein fanne deur de	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
Chalf wash, waste water	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
Chan doud world	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	*	ArtNo.
Calibration services			
Townsystems 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 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



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	-	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

# BINDER Best conditions for your success

#### **NOTES**

On 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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