

Model KMF 115 | Constant climate chambers with expanded temperature / humidity range

The BINDER KMF ensures absolutely constant test conditions throughout the testing area. A big advantage of this constant climate chamber is its low space requirement and flexibility in terms of water supply. The wide temperature and humidity range make this constant climate chamber ideally suited for stress testing series.

BENEFITS

- Homogeneous climate conditions thanks to APT.line™ technology
- · Automatic water and wastewater management
- Humidification with fast response times
- Wide humidity range up to 98 % RH
- Long-term stress testing, e.g. at 85 °C / 85 % RH



Model 115

MAIN FEATURES

- Temperature range: -10 °C to 100 °C
- · Humidity range: 10 % RH to 98 % RH
- APT.line[™] preheating chamber technology
- Humidity regulation with capacitive humidity sensor and vapor humidification
- · Inner chamber made of stainless steel
- BINDER Multi Management Software APT-COM™ Basic Edition
- Intuitive touchscreen controller with time-segment and real-time programming
- Internal data logger, measured values can be read out in open format via USB
- · Unit self-test for comprehensive status analysis

- Tight-sealing inner door made of safety glass (ESG)
- · Avoidance of glass corrosion by special TIMELESS coating
- · 1 stainless steel rack
- · Access port with silicone plug, 30 mm, left
- Class 3.1 independent temperature safety device (DIN 12880) with visual and audible temperature alarm
- · Computer interface: Ethernet
- · Door heating

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
102	200230 V 1~ ph 50/60 Hz	Standard	KMF115-230V	9020-0341
	200240 V 1~ ph 50/60 Hz	Standard	KMF115-240V	9020-0342



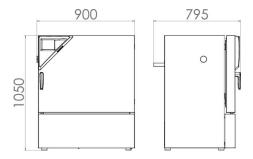
TECHNICAL DATA

Description KMF115-230V¹ KMF115-240V¹ Article Number 9020-0341 9020-0342 Performance Dela Temperature 1000 1000 Average beating-up rate according to IEC 60088-35 [Kmin] 1.3 1.3 Average cooling down time according to IEC 60088-35 [Kmin] 1.5 1.0 Max. heat compensation at 25° C(P)* 160 10				
Performance Data Temperature Performance 10.100 10.100 Average heating-up rate according to IEC 60088-3- [K/min] 1.3 1.3 Average heating-up rate according to IEC 60088-3- [K/min] 1.5 1.6 Average cooling down time according to IEC 60088-3- [K/min] 1.50 1.0 Max. heat compensation at 25°C [V] 150 10.90 Performance Data Climate 1.0.90 10.90 Temperature range [°C] 22.1 0.21 Temperature fluctuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 2020 2 Reburser 590 2020 2 Reburser 1	Description	KMF115-230V ¹	KMF115-240V ¹	
Temperature range -10100 -10100 Average beating-up rate according to IEC 80088-35 [K/min] 1.3 1.3 Average cooling down time according to IEC 80088-35 [K/min] 1.50 0.5 Max. heat coording to IEC 80088-35 [K/min] 1.50 1.50 Max. heat coording to ST C [W] 1.50 1.50 Performance Data Climate V V Temperature variation depending on setpoint [± K] 0.21 0.21 Temperature usualized depending on setpoint [± K] 0.003 0.103 Humidity functuation depending on setpoint [± K] 1098 1098 Humidity fluctuation depending on setpoint [± K] 10	Article Number	9020-0341	9020-0342	
Average heating up rate according to IEC 60088-3-5 [K/min] 1.3 1.3 Average cooling down time according to IEC 60088-3-5 [K/min] 0.5 0.5 Max. heat compensation at 25 °C [W] 10.00 10.00 Performance Data Climate Verage cooling down time according to IEC 60088-3-5 [K/min] 1090 1090 Temperature range [°C] 1090 0.21 201 Temperature fluctuation depending on setpoint [± K] 0.10.3 0.10.3 Humidity fluctuation depending on setpoint [± K] 0.10.8 0.10.9 Humidity fluctuation depending on setpoint [± K] 0.9	Performance Data Temperature			
Average cooling down time according to IEC 60088-3 [K/min] 0.5 0.5 Max. heat compensation at 25 °C [W] 150 150 Performance Data Climate Very Carmone Data Climate Very Carmone Data Climate Temperature variation depending on setpoint [± K] 0.21 0.21 Temperature fluctuation depending on setpoint [± K] 0.103 0.103 Humidify fluctuation depending on setpoint [± K] 1098 1098 Humidify range [K RH] 1098 1098 Humidify fluctuation depending on setpoint 25.5 ± K RH 25.5 ± K RH Deve point temperature range [°C] 200230 200240 Electrical data 200230 200240 Power frequency [± L] 5060 5060 Norinal power [W] 1 1 Power frequency [± L] 16 1 Norinal voltage) 1 1 Permited Lyl 1 1 Norinal voltage [W] 1 1 Permited Lyl 1 1 Net velyely (F H) 1 1 <	Temperature range	-10100	-10100	
Max. heat compensation at 25 °C [W] 50 50 Performance Data Climate Temperature range [°C] 1090 1090 Temperature variation depending on setpoint [± K] 0.21 0.21 Temperature functuation depending on setpoint [± K] 0.10.3 0.10.3 Humidity range [% RH] 1098 1098 Humidity fluctuation depending on setpoint 25.± % RH 25.± % RH Dew point temperature range [°C] 5090 2020 Electrical data 2	Average heating-up rate according to IEC 60068-3-5 [K/min]	1.3	1.3	
Performance Data Climate Temperature range [°C] 1090 1090 Temperature range [°C] 0.21 0.21 Temperature variation depending on setpoint [± K] 0.103 0.10.3 Humidity incutation depending on setpoint [± K] 1098 1098 Humidity incutation depending on setpoint \$2.5 ± % RH \$2.5 ± % RH Dew point temperature range [°C] 590 \$590 Electrical data 200230 200240 Rated Voltage [V] 200230 200240 Nominal power [kW] 2 2 2 Power frequency [+2] 50/60 50/60 50/60 Nominal power [kW] 2 2 2 Unit fuse [A] 16 16 Phase (Nominal voltage) 102 102 New weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [rm] 10 10 Wall clearance sidewise [rm] 60 60 <td>Average cooling down time according to IEC 60068-3-5 [K/min]</td> <td>0.5</td> <td>0.5</td> <td></td>	Average cooling down time according to IEC 60068-3-5 [K/min]	0.5	0.5	
Temperature range [*C] 1090 1090 Temperature variation depending on setpoint [± K] 0.21 021 Temperature fluctuation depending on setpoint [± K] 0.103 0.103 Humidity functuation depending on setpoint 2.926 kR H 0.990 Humidity fluctuation depending on setpoint 2.990 590 Dev point temperature range [*C] 590 590 Electrical data 7	Max. heat compensation at 25 °C [W]	150	150	
Temperature variation depending on setpoint [± K] 0.21 0.21 Temperature fluctuation depending on setpoint [± K] 0.10.3 0.10.3 Humidify range [% RH] 1098 1098 Humidify fluctuation depending on setpoint £2.5 ± % RH \$2.5 ± % RH Deep point temperature range [*C] 50.90 590 Electrical data ************************************	Performance Data Climate			
Temperature fluctuation depending on setpoint [± K] 0.10.3 0.10.3 Humidity range [% RH] 1098 1098 Humidity fluctuation depending on setpoint \$2,5 ± % RH \$2,5 ± % RH Dew point temperature range [*C] 590 590 Electrical data ************************************	Temperature range [°C]	1090	1090	
Humidity range (%RH) 1098 1098 Humidity fluctuation depending on setpoint \$2.5 ± RH \$2.5 ± RH Dew point temperature range (°C) 590 590 Electrical data ************************************	Temperature variation depending on setpoint [± K]	0.21	0.21	
Humidity fluctuation depending on setpoint \$2,5 ± % RH \$2,5 ± % RH Dew point temperature range [°C] 590 590 Electrical data 200230 200240 Power frequency [Hz] 50/60 50/60 Nominal power [kW] 2 2 Unit fuse [A] 16 16 Phase (Nominal voltage) 1 16 Nessures 102 102 Net weight of the unit (empty) [kg] 128 128 Net weight of the unit (empty) [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Vall clearance sidewise [mm] 100 100 Vidth [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Lineradors 1 1 Lineradors 1 1 Lineradors 1 1	Temperature fluctuation depending on setpoint [± K]	0.10.3	0.10.3	
Dew point temperature range [°C] 590 590 Electrical data 200230 200240 Power frequency [Hz] 50/60 50/60 Nominal power [kW] 2 2 Unit fuse [A] 16 6 Phase (Nominal voltage) 1- 1- Measures 102 102 128 Net weight of the unit (empty) [kg] 128 128 128 Permitted load [kg] 100 100 100 Uad per rack [kg] 30 30 30 Valid clearance back [rm] 100 100 100 Valid clearance sidewise [rm] 600 600 100 Internal Dimensions 600 600 600 Vidth [rm] 483 483 483 Depth [rm] 351	Humidity range [% RH]	1098	1098	
Electrical data Electrical data Rated Voltage [V] 200230 200240 Power frequency [Hz] 50/60 50/60 Nominal power [kW] 2 2 Unit fuse [A] 16 16 Phase (Nominal voltage) 1- 1~ Measures Unit fuse [L] 102 102 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 30 Vall clearance back [mm] 100 30 Wall clearance sidewise [mm] 100 100 Vall clearance sidewise [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Unit doors 1 1	Humidity fluctuation depending on setpoint	≤2,5 ± % RH	≤2,5 ± % RH	
Rated Voltage [V] 200230 200240 Power frequency [Hz] 50/60 50/60 Nominal power [kW] 2 2 Unit fuse [A] 16 6 Phase (Nominal voltage) 1~ 7 Measures ************************************	Dew point temperature range [°C]	590	590	
Power frequency [Hz] 50/60 50/60 Nominal power [kW] 2 2 Unit fuse [A] 16 16 Phase (Nominal voltage) 1~ 7 Measures Unterior volume [L] 102 102 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 4 Housing dimensions not incl. fittings and connections 1 4	Electrical data			
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Unit fuse [A] 16 Phase (Nominal voltage) 1~ Measures Unit fuse [A] 102 Interior volume [L] 102 128 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 600 600 Internal Dimensions 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Inner doors 1 1 Unit doors 1 1 Unit doors 1 1	Power frequency [Hz]	50/60	50/60	-
Phase (Nominal voltage) 1~ Measures 102 102 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors Inner doors 1 1 Unit doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections	Nominal power [kW]	2	2	-
Measures Interior volume [L] 102 102 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Inner doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Unit fuse [A]	16	16	
Interior volume [L] 102 102 Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Phase (Nominal voltage)	1~	1~	
Net weight of the unit (empty) [kg] 128 128 Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions 600 600 Width [mm] 600 600 Height [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Measures			
Permitted load [kg] 100 100 Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors Inner doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Interior volume [L]	102	102	
Load per rack [kg] 30 30 Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions **** **** Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Net weight of the unit (empty) [kg]	128	128	
Wall clearance back [mm] 100 100 Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections	Permitted load [kg]	100	100	
Wall clearance sidewise [mm] 100 100 Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Load per rack [kg]	30	30	
Internal Dimensions Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Wall clearance back [mm]	100	100	
Width [mm] 600 600 Height [mm] 483 483 Depth [mm] 351 351 Doors Inner doors 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1	Wall clearance sidewise [mm]	100	100	
Height [mm] 483 483 Depth [mm] 351 351 Doors Inner doors 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Internal Dimensions			
Depth [mm] 351 351 Doors Inner doors 1 1 Unit doors 1 1 1 Housing dimensions not incl. fittings and connections 1 1	Width [mm]	600	600	
Doors Inner doors 1 1 Unit doors 1 Housing dimensions not incl. fittings and connections	Height [mm]	483	483	
Inner doors 1 1 1 Unit doors 1 1 Housing dimensions not incl. fittings and connections 1 1	Depth [mm]	351	351	
Unit doors 1 1 1 Housing dimensions not incl. fittings and connections	Doors			
Housing dimensions not incl. fittings and connections	Inner doors	1	1	
•	Unit doors	1	1	
Width not [mm]	Housing dimensions not incl. fittings and connections			
Width Het [Hilli]	Width net [mm]	880	880	
Height net [mm] 1050 1050	Height net [mm]	1050	1050	
Depth net [mm] 650 650	Depth net [mm]	650	650	
Environment-specific data	Environment-specific data			
Energy consumption at 85 °C and 85 % RH [Wh/h] 570 570	Energy consumption at 85 °C and 85 % RH [Wh/h]	570	570	
Sound-pressure level [dB(A)] 52 52	Sound-pressure level [dB(A)]	52	52	
Fixtures	Fixtures			
Number of shelves (std./max.) 1/5	Number of shelves (std./max.)	1/5	1/5	

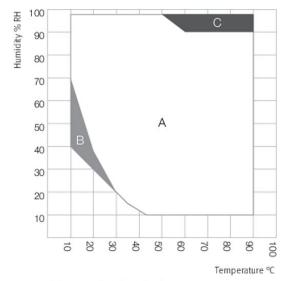
¹ All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined to BINDER factory standard following DIN 12880, observing the recommended wall clearances of 10 % 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]



CHARTS



- A: Guaranteed condensation-free range B: Time-limited operation (max. 24 hours)
- C: Condensation in the inner chamber may be possible

Climate chart

OPTIONS

Designation	Description	*	ArtNo.
	left		
	30 mm	01	8012-1446
	50 mm	01	8012-1476
	100 mm	01	8012-1342
	right		
Access port with silicone	30 mm	01	8012-1440
plug	50 mm	01	8012-1470
	100 mm	01	8012-1339
	top		
	30 mm	01	8012-1452
	50 mm	01	8012-1458
	100 mm	01	8012-1464
Alarm output, zero- voltage	for temperature (±2 °C) and humidity (±5 % RH), accessible via 6-pin DIN socket (max. 24 V - 2.5 A), with audible signal that can be switched off	-	8012-1676
Analog output 4-20 mA	for temperature and humidity values (output not adjustable)	-	8012-1679
Calibration certificate, expanded	for temperature and humidity; for extending the measurement in center of chamber to include another test value	-	8012-1191

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Calibration certificate, temperature	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1606
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-1586
tomporataro	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1565
Calibration certificate,	Measurement in center of chamber at 25 °C / 60% RH or at specified test values	-	8012-1185
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	-	8012-1612
Class 3.3 independent temperature safety device	with visual alarm (DIN 12880)	-	8012-1673
Door lock	lockable door handle	-	8012-1660
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-1682
RS 485 interface, 2-wire	Additional serial interface can be used parallel to Ethernet, for Multi Management Software APT-COM™	-	8012-1712

^{*} Notes > See last page

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.		
Edition	version 4, GLP edition	19	9053-0042
APT-COM™ 4	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.		
PROFESSIONAL- Edition	version 4, PROFESSIONAL edition	19	9053-0040
BINDER PURE AQUA SERVICE	System for preparation or complete desalination of tap water, complete set containing PURE AQUA 300 single-use cartridge, measuring device, and all necessary connecting parts	-	8012-0759
BINDER PURE AQUA SERVICE, accessories	Single-use, replacement cartridge for BINDER PURE AQUA System	-	6011-0165
	T 220: For continuous temperature logging from -90 °C to 220 °C. The kit includes 1 data logger, Pt 100 sensor with 2 m extension cable and 1 magnetic fixture for mounting to the BINDER unit	19	8012-0715
Data Logger Kit	TH 100/70: For continuous temperature and humidity logging from -40 °C to 100 °C / 0% to 100 °RH and additional logging of ambient conditions. Kit includes 1 data logger, 2 attachable combined humidity/temperature sensors, 2 m extension cable and 1 fixture for mounting to the BINDER unit	19	8012-1838
	TH 100: For continuous temperature and humidity logging from -50 °C to 100 °C; 0% to 100% RH. Kit includes 1 data logger, Pt 100 sensor with 2 m extension cable, and 1 magnetic fixture for mounting to the BINDER unit	19	8012-1837
Data Logger Software	LOG ANALYZE software kit, configuration and evaluation software for all BINDER Data Logger Kits (incl. USB data cable)	19	8012-0821
1501111	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
LED light bars	Expansion set consisting of 2 pieces, attachment material: clips. For expanding the basic set of light bars		
	Expansion set 300, length 30 cm	-	8012-1716
	Expansion set 500, length 50 cm	-	8012-1717
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
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
	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
Rack	stainless steel	-	6004-0112
Rack accessories	fasteners (1 set of 4) for additional security of racks	-	8012-0620
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-0700
* Notes > See last page			

^{*} Notes > See last page



Designation	Description	*	ArtNo.
RS 485 / RS 422 interface converter	RS 422 cable set and RS 485 / RS 422 interface converter for connection to 10-way plug distributor		
	115 V option model	-	8012-0599
	230 V option model	-	8012-0589
Shelf, perforated	Stainless steel	-	6004-0115
Water supply set	consisting of fresh- and waste-water containers (20 liters each), cabling and pump		
	external, for hanging from the back of the device	-	8012-0643

^{*} Notes > See last page

SERVICES

Designation	Description	*	ArtNo.
Installation services			
Unit installation	Unpacking and setting up of unit, connecting to existing connections, and checking function	13, 18	DL10-0300
Unit instructions	Unit function instructions for operation and programming of the controller	18	DL10-0700
Preventive maintenance			
Maintenance	Functional testing of all electrical and mechanical components, short calibration, documentation in the maintenance schedule	14, 18	DL20-0400
Calibration services			
	Expansion – including certificate, each additional measuring point in center of chamber at 25 $^{\circ}\text{C}$ / 60% RH or at specified values	14, 16, 17, 18	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	14, 16, 17, 18	DL30-0301
Temperature measurement in accordance with DIN 12880, 27 temperature measuring points and 1 numidity measuring point	Temperature measurement in accordance with DIN 12880 with 27 temperature measuring points and 1 humidity measuring point in center of chamber at specified values, including certificate	14, 16, 17, 18	DL30-0427
Femperature measurement, 15 measuring points	Temperature measurement with 15 measuring points at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0218
Temperature measurement, 18 temperature measuring points and 1 numidity measuring point	Temperature measurement with 18 temperature measuring points and 1 humidity measuring point in center of chamber with 1 specified pair of values, including certificate	14, 16, 17, 18	DL30-0318
Femperature measurement, 27 emperature measuring points and 1 numidity measuring point	Temperature measurement with 27 temperature measuring points and 1 humidity measuring point in center of chamber with 1 specified pair of values, including certificate	14, 16, 17, 18	DL30-0327
Femperature measurement, 9 emperature measuring points and 1 numidity measuring point	Temperature measurement with 9 temperature measuring points and 1 humidity measuring point in center of chamber at specified values, including certificate	14, 16, 17, 18	DL30-0309
/alidation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	15, 18	DL42-0300
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	15, 18	DL44-0500
Warranty service			
Varranty extension from 2 to 3 years	The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded	-	DL02-404
Varranty extension from 2 to 5 years	The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded	-	DL02-404

^{*} Notes > See last page



NOTES

- Condensation may occur in the area around the access port. Access ports may be placed in custom locations for an additional charge.
- 02 UL mark is not granted when this option is used.
- Heat resistant only to max. 200 °C. 03
- Only available on units rated for 230 V.
- The additional heat input may affect the temperature behavior.
- Not in conjunction with the optional access port, door with window and interior lighting.
- 10 Not available on 23-liter units.
- Not available on 23- or 53-liter units.
- 11 12 Only available on units rated for 230 V or 400 V.
- 13 Installation and connections take place at unit location; transport within the company only upon consultation.
- We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- Sensor calibration is performed in an accredited calibration laboratory.
- Calibration is performed according to the BINDER factory standard. 17
- 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 18 include a country-specific added fee (available on request).
- For additional accessories, refer to the Process documentation chapter.

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