

Model MK 240 | Dynamic climate chambers for rapid temperature changes

The BINDER MK series chamber is suitable for all heat and cold tests between -40 °C and 180 °C. The MK is a clever alternative to complex individual solutions for cyclical temperature tests.

BENEFITS

- Homogeneous climate conditions thanks to APT.line™ technology
- Comprehensive programming and data acquisition
- Large heated viewing window



Model 240

MAIN FEATURES

- Temperature range: -40 °C to +180 °C
- APT.line™ preheating chamber technology
- Programmable condensation protection for test material
- Heated viewing window with LED interior lighting
- BINDER Multi Management Software APT-COM[™] Basic Edition
- Troubleshooting system with visual and audible alarms
- Intuitive touchscreen controller with time-segment and real-time programming
- Internal data logger, measured values can be read out in open format via USB
- Access port with silicone plug, 50 mm, left
- Class 2 independent adjustable temperature safety device (DIN 12880) with visual alarm
- 4 castors, two with brakes
- Computer interface: Ethernet
- Adjustable ramp function
- Integrated chart recorder
- Real-time clock
- Door heating
- 1 stainless steel rack
- Inner chamber made of stainless steel
- CFC-free refrigerant R-452A
- Cooling with compressor cooling unit



Model 240

OPTIONAL EQUIPMENT

- APT-COM Multi Management Software for managing, recording, and documenting unit parameters
- Racks option of stainless steel racks, depending on test requirements
- Compressed air supply system
- Services wide range of services to ensure that the unit functions correctly



ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
	400 V 3~ ph 50 Hz	Standard	MK240-400V	9020-0376
228	480 V 3~ ph 60 Hz	with voltage and frequency converter	MK240-480V-C	9020-0355

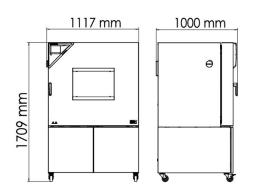
TECHNICAL DATA

Article Number9020-03769020-0353Performance btat Temperature	Description	MK240-400V1	MK240-480V-C1
Temperature nacco4,01804,0180Temperature fluctuation depending on section [k]0.10.50.10.5Average heating-up rate according to IEC 60068-3-5 [K/min]50.0Cooling down time according to IEC 60068-3-5 [K/min]4.50.0Average cooling down time according to IEC 60068-3-5 [K/min]4.50.0Average cooling down time according to IEC 60068-3-5 [K/min]4.50.0Nach ext compensation at 2s "C [M]0.00.0Beter forguery liz10.06.0Nominal power [kW]5.65.6Dishe forguery liz16.06.0Phase (Moninal voltage)3.03.0Phase (Moninal voltage)2.82.8Mesure11.00.0Mesure10.00.0Phase (Moninal voltage)3.03.0Netwire (L]2.82.83.0Netwire (L]0.00.00.0Netwire (L]0.00.00.0	Article Number	9020-0376	9020-0355
Temperature fluctuation depending on setpoint [± kl]o.io.5o.io.5Average colling bltC 60068-3-5 [K/min]55Cooling down time according to IEC 60068-3-5 [K/min]1004.5Average colling down time according to IEC 60068-3-5 [K/min]20002000Max, heat compensation at 2.5 °C [M]20002000Betrictidata	Performance Data Temperature		
Average heating-up rate according to IEC 6008-3-5 [K/min]55Cooling down time from s80 °C to 40 °C [min]130130Average cooling down time according to IEC 60068-3-5 [K/min]4-54-5Max. heat compensation at 25 °C [W]20002000Electrical dataElectrical data800Power frequency [M2]5060Nominal power [W]5656Unit fuse [A]6060Power frequency [M2]603-0Power frequency [M2]2828Power frequency [M2]200249Permitted load [M2]70240Pase (Nominal voltage)30249Permitted load [M2]7070Load per rack [M2]300300Viewing window width [m3]50300Viewing window width [m3]50300Viewing window width [m3]300300Viewing window width [m3]70300Viewing window widt [m4]70300Viewing window widt [m5]70300Viewing window	Temperature range	-40180	-40180
Cooling down time from 180 °C to -40 °C (min]110110Average cooling down time according to EC 60068-35 (K/min]4.54.5Max. heat compensation at 25 °C (W)20002000Electrical data4.00480Rated Voltage [V]6.06.0Nominal power [kW]5.65.6Unit tos [A]6.06.0Pase (Nominal voltage)3-03-0Measures3-03-0Interior voltage [V]248249Net weight of the unit (empty) [kg]7070Permited load [kg]7070Vewing window height [min]508508Vewing window height [min]500300Wati Clearance Sidewise [min]300300Wati Clearance Sidewise [min]7373With (min]7373Vering window neight [min]70070With [min]70070Unit dors173Permited Sidewise [min]15Notage Sidewise [min]115Notage Sidewise [Temperature fluctuation depending on setpoint [± K]	0.10.5	0.10.5
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Max. heat compensation at 25 °C [W]20002000Electrical data	Cooling down time from 180 °C to -40 °C [min]	110	110
Electrical dataRated Voltage [V]400480Power frequency [Hz]5060Nominal power [kW]5,660Unif fuse [A]605,6Phase (Nominal voltage)3~3~Measures228228Interior volume [L]228249Permited load [kg]7070Load per rack [kg]30030Viewing window width [mm]508508Viewing window height [mm]300300Wall clearnee back [mm]300300Wall clearnee back [mm]735735Height [mm]70070Uith furs735735Height [mm]70070Uith dong furs70070Wall clearnee back [mm]70070Uith dong furs735735Height [mm]70070DorsUith dong furs115Uith dong furs115115Height [mm]50270Derto furs115115Width net [mm]71070Dept net [mm]72070Dept net [mm]72070Height [mm]70070Height [mm]115115Height [mm]70070DorsUit dors120Height [mm]115115Height [mm]70070Dept net [mm]6270Dept net [mm]6270Dept net [mm]<	Average cooling down time according to IEC 60068-3-5 [K/min]	4.5	4.5
Rated Voltage [V]400480Power frequency [Hz]5060Noninal power [kW]5.65.6Unit fuce [A]6060Phase (Noninal voltage)3-05.6Phase (Noninal voltage)3-05.6Phase (Noninal voltage)3-02.8Ressures12.82.8Interior voltane [L]2402.9Netweight of the unit (empty) [kg]7070Load per rack [kg]7070Verwing window width [mm]508508Verwing window width [mm]500300Wall clearance back [mm]300300Wall clearance back [mm]75735Mall clearance back [mm]735735Peth [mm]730700Post1100Unit doors1100Height [mm]115115Housing dimensions not incl. fittings and connections115Wind ne [mm]125120Height [mm]120120Dors120120Wind ne [mm]135115Height [mm]135135Height [mm]135135Height [mm]135135Height [mm]130120Post120120Height [mm]130130Height [mm]130130Height [mm]130130Height [mm]130130Height [mm]130130Height	Max. heat compensation at 25 °C [W]	2000	2000
Power frequency [kt]§060Nominal power [kW]\$.6\$.6Nominal power [kW]\$.6\$.6Unit fuse [A]16\$.6Phase (Nominal voltage)\$-7\$.7Measures228228Net weight of the unit (empty) [kg]300249Permitted load [kg]7070Load per rack [kg]300300Viewing window width [mm]\$08\$.8Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance back [mm]735300Width [mm]735735Height [mm]70070DorsU1115Unit doors1115Hoding dimensions not incl. fittings and connections1115Width ne[mm]1720320Depth re [mm]1720320Depth re [mm]315315Height Imm]115315Height Imm]115315Height Imm]115315DorsU1115Height Imm]1720320Depth re [mm]320325Environment-specific data320325Environment-specific data1300 Wh/h300 Wh/h	Electrical data		
Nominal power [kW]5,65,6Unit fuse [A]1616Phase (Nominal voltage)3-3-Measures228228Interior volume [L]228249Permitted load [kg]7070Load per rack [kg]3030Viewing window width [mm]508508Viewing window width [mm]300300Viewing window height [mm]300300Wall clearance back [mm]300300Wilclearance sidewise [mm]735735Height [mm]700700Width [mm]735735Dors700700Unit doors1115Housing dimensions not incl. fittings and connections115Width [mm]1150115Height [mm]1710925Doors925925Entroment-specific data1300 W/h300Height net [mm]1150115Height net [mm]1300300Dept net [mm]925925Entroment-specific data1300 W/hEnergy consumption at 20°C1300 W/h1300 W/h	Rated Voltage [V]	400	480
Unit fuse [A]6666Phase (Nominal voltage)3-°3-°Measures228228Net weight of the unit (empty) [kg]340249Permitted load [kg]7070Load per rack [kg]3030Viewing window width [mm]508508Viewing window weight [mm]300300Wall clearance back [mm]300300Wall clearance back [mm]200200Wall clearance back [mm]735735Mult clearance back [mm]700700Depth [mm]700700Depth [mm]115115Hoidsgi diemsions Intel. fittings and connections115Widt har [mm]115115Height [mm]115115Depth [mm]115115Height [mm]226226Depth [mm]2525Entroment-specific data130Entroment-specific data130Entroment-specific data130Entroment specific data	Power frequency [Hz]	50	60
Phase (Nominal voltage)3-MeasuresInterior volume [L]228228Net weight of the unit (empty) [kg]340249Permitted load [kg]7070Load per rack [kg]3030Viewing window width [mm]508508Viewing window height [mm]300300Viewing window height [mm]300300Viewing window height [mm]300300Viewing window height [mm]200300Viewing window height [mm]735735Viewing window height [mm]700700Viewing window height [mm]700700Viewing window height [mm]735735Viewing window height [mm]115115Height [mm]115115Height [mm]115115Height [mm]120220Dors115115Width net [mm]115115Height net [mm]120220Dept het [mm]225925Environment-specific data1300 Wh/hFergy consumption at 20 °C1300 Wh/hSound-pressure level [dB(A)]6262	Nominal power [kW]	5.6	5.6
Measures Justic for volume [L] 228 228 Net weight of the unit (empty) [kg] 340 249 Permitted load [kg] 70 70 Load per rack [kg] 30 30 Viewing window width [mm] 508 508 Viewing window height [mm] 300 300 Viewing window height [mm] 735 735 Viewing window height [mm] 700 700 Doors Unit dors 1 1115 Height net [m	Unit fuse [A]	16	16
Interior volume [L]228228Net weight of the unit (empty) [kg]340249Permitted load [kg]7070Load per rack [kg]3030Viewing window width [mm]508508Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]700700Degh [mm]700700Degth [mm]1700Doors1115Width net [mm]115115Height net [mm]120320Degth net [mm]925925Environment-specific data1300 Wh/hEnergy consumption at 20 °C1300 Wh/hSound-pressure level [dB(A)]6267	Phase (Nominal voltage)	3~	3~
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Permitted load [kg]7070Load per rack [kg]3030Viewing window width [mm]508508Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]730700Depth [mm]700700Depth [mm]443443Doors11Unit doors11Height net [mm]115115Height net [mm]115115Height net [mm]925925Environment-specific data1300Wh/h1300Wh/hEnergy consumption at a 0 °C1300Wh/h1300Wh/hSound-pressure level [dB(A)]6267	Interior volume [L]	228	228
Load per rack [kg]3030Viewing window width [mm]508508Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]735735Height [mm]700700Depth [mm]443443Doors11Unit doors11Height net [mm]115115Height net [mm]115115Height net [mm]20225Depth net [mm]20525Entrance time1300 Wh/n1300 Wh/n	Net weight of the unit (empty) [kg]	340	249
Viewing window width [mm]508508Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]735736Height [mm]700700Depth [mm]443443DoorsUUUnit doors1115Height net [mm]11151115Height net [mm]925925Entrinoment-specific data1300 Wh/h1300 Wh/hEnergy consumption at 20 °C300 Wh/h6267	Permitted load [kg]	70	70
Viewing window height [mm]300300Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]730700Depth [mm]443443Doors11Unit doors11Housing dimensions not incl. fittings and connections11151115Width net [mm]11151115Height net [mm]120925Dort net [mm]325325Environment-specific data1300 Wh/h1300 Wh/hSond-pressure level [dB(A)]6267	Load per rack [kg]	30	30
Wall clearance back [mm]300300Wall clearance sidewise [mm]200200Internal Dimensions200200Width [mm]735735Height [mm]700700Depth [mm]443443Doors11Unit doors11Housing dimensions not incl. fittings and connections1115Width net [mm]11901710Depth net [mm]925925Environment-specific data1300 Wh/h1300 Wh/hSound-pressure level (dB(A)]6267	Viewing window width [mm]	508	508
Wall clearance sidewise [mm]200200Internal Dimensions735735Width [mm]735735Height [mm]700700Depth [mm]443443Doors11Unit doors11Housing dimensions not incl. fittings and connections1115Width net [mm]11151115Height net [mm]17101710Depth net [mm]325325Environment-specific data1300 Wh/h1300 Wh/hSound-pressure level [dB(A)]6267	Viewing window height [mm]	300	300
Internal DimensionsWidth [mm]735Height [mm]700Depth [mm]443Doors443Unit doors1Housing dimensions not incl. fittings and connections1115Width net [mm]1115Height net [mm]1700Depth net [mm]925Environment-specific data1300 Wh/hSound-pressure level (dB(A)]62	Wall clearance back [mm]	300	300
Width [mm]735735Height [mm]700700Depth [mm]443443Doors11Unit doors11Housing dimensions not incl. fittings and connections1Width net [mm]11151115Height net [mm]17101710Depth net [mm]925925Environment-specific data1300 Wh/h1300 Wh/h	Wall clearance sidewise [mm]	200	200
Height [mm] 700 700 Depth [mm] 443 443 Doors 1 1 Unit doors 1 1 Height net [mm] 115 115 Height net [mm] 1710 1710 Depth net [mm] 925 925 Environment-specific data 1300 Wh/h 1300 Wh/h	Internal Dimensions		
Depth [mm]443443Doors11Unit doors11Housing dimensions not incl. fittings and connections115115Width net [mm]1115115116Height net [mm]171017101710Depth net [mm]9259251Environment-specific data1300 Wh/h1300 Wh/hSound-pressure level [dB(A)]6267	Width [mm]	735	735
DoorsIUnit doors11Housing dimensions not incl. fittings and connections115115Width net [mm]111511151115Height net [mm]17101710170Depth net [mm]925925925Environment-specific data1300 Wh/h1300 Wh/hSound-pressure level [dB(A)]6267	Height [mm]	700	700
Unit doors11Housing dimensions not incl. fittings and connections11151115Width net [mm]111511151115Height net [mm]170017001700Depth net [mm]925925925Environment-specific data1300 Wh/h1300 Wh/hEnergy consumption at 20 °C1300 Wh/h1300 Wh/hSound-pressure level [dB(A)]6267	Depth [mm]	443	443
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Width net [mm] 1115 1115 Height net [mm] 1710 1700 Depth net [mm] 925 925 Environment-specific data 1300 Wh/h 1300 Wh/h Sound-pressure level [dB(A)] 62 67	Unit doors	1	1
Height net [mm] 1710 1710 Depth net [mm] 925 925 Environment-specific data Energy consumption at 20 °C 1300 Wh/h 1300 Wh/h Sound-pressure level [dB(A)] 62 67	Housing dimensions not incl. fittings and connections		
Depth net [mm]925925Environment-specific dataEnergy consumption at 20 °C1300 Wh/h1300 Wh/hSound-pressure level [dB(A)]6267	Width net [mm]	1115	1115
Environment-specific data 1300 Wh/h Energy consumption at 20 °C 1300 Wh/h Sound-pressure level [dB(A)] 62 67	Height net [mm]	1710	1710
Energy consumption at 20 °C 1300 Wh/h 1300 Wh/h Sound-pressure level [dB(A)] 62 67	Depth net [mm]	925	925
Sound-pressure level [dB(A)] 62 67	Environment-specific data		
	Energy consumption at 20 °C	1300 Wh/h	1300 Wh/h
Fixtures	Sound-pressure level [dB(A)]	62	67
	Fixtures		
Number of shelves (std./max.) 1/6 1/6	Number of shelves (std./max.)	1/6	1/6

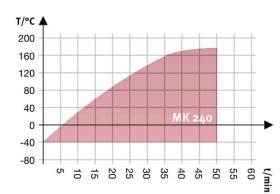
1 All technical data is specified for unloaded units with standard equipment at an ambient temperature of +22 °C ±3 °C and a power supply voltage fluctuation of ±10 %. The temperature data is determined in accordance to BINDER factory standard following DIN 12880, observing the recommended wall clearances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

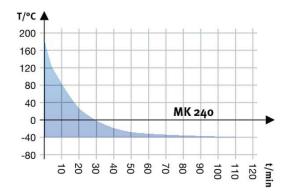
BINDER

DIMENSIONS incl. fittings and connections [mm]

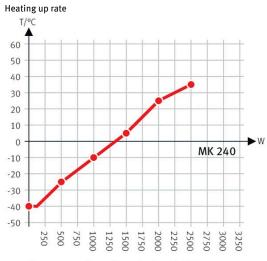


CHARTS





Cooling down rate



Heat compensation with a set value of -40°C

Heat compensation chart

OPTIONS



Designation	Description	*	ArtNo.
	left		
	30 mm	01	8012-1322
	50 mm	01	8012-1328
	80 mm	01	8012-1334
	100 mm	01	8012-1542
	125 mm	01	8012-1351
	right		
ccess port with silicone	30 mm	01	8012-1319
lug	50 mm	01	8012-1325
	8o mm	01	8012-1331
	100 mm	01	8012-1539
	125 mm	01	8012-1348
	top		
	8o mm	01	8012-1536
	100 mm	01	8012-1530
	125 mm	01	8012-1533
nalog output 4-20 mA	for temperature values (output not adjustable)	-	8012-108/
alibration certificate, xpanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1124
	for temperature, measurement in center of chamber at specified temperature	-	8012-1143
alibration certificate,	temperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1602
emperature	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-1581
	temperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1560
Compressed air onnection	for the connection to an existing pressurized air network	-	8012-1089
oor lock	lockable door handle	-	8012-1861
ry-air purge	uncontrolled, incl. connection; for preventing condensation	-	8012-1865
lotch-type access port	notch-type access port in door, 100 x 35 mm	_	8012-1850
't 100 temperature ensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-1093
S 485 interface, 2-wire	Additional serial interface can be used parallel to Ethernet, for Multi Management Software APT-COM™	-	8012-1768
emperature safety evice class 2	with visual alarm (DIN 12880)	-	8012-1792
ero voltage relay	for controlling 3 relay contacts via program regulators, accessible via 6-pin DIN socket (max. 24 V - 2.5 A)	_	8012-1094

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 GLP-	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.	1	
Edition	version 4, GLP edition	-	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	-	9053-0040
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016

* Notes > See last page

Data Sheet Model MK 240

BINDER

Designation	Description	*	ArtNo.
	IQ/OQ documents – supporting documents for validation performed by customers, consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO ₂ , O ₂ , pressure, depending on unit		
Qualification documents	Digital in PDF format	-	7057-0001
	Hard copy inside folder	-	7007-0001
	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, CO_2 , O_2 – or pressure, depending on unit		
	Digital in PDF format	-	7057-0005
	Hard copy inside folder	-	7007-0005
Rack	stainless steel	-	8012-2053
Rack accessories	fasteners (1 set of 4) for additional security of racks	_	8012-0620
Rack, reinforced	stainless steel, with fasteners (1 set of 4)	-	8012-0605
	RS 422 cable set and RS 485 / RS 422 interface converter for connection to 10-way plug distributor		
RS 485 / RS 422 interface converter	115 V option model	-	8012-0599
	230 V option model	-	8012-0589
Shelf, perforated	Stainless steel	-	8009-0447
WLAN kit	The kit contains a client bridge that establishes a wireless connection between BINDER units and APT-COM4, LIMS, or customer-specific software via an Ethernet interface. It provides an alternative solution in situations where units need to be positioned in locations without an on-site Ethernet connection. In secured networks, installation and configuration must be performed by the customer's IT service.	-	8500-0164

* Notes › See last page

SERVICES

Designation	Description	*	ArtNo.
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			
Maintenance services			
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 and CO ₂ value, including certificate	05	DL20-0940
Leakage test	Testing and logging of the leak-tightness of systems containing hydrofluorocarbons in accordance with Regulation EC842/2006, incl. test book	05	DL00-003/
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	DL20-0500
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	DL20-0830
Calibration services			
Colibustion costificate town oration	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
Calibration certificate, temperature	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	03, 04, 05	DL30-0102
Temperature measurement, 18 measuring points	Temperature measurement with 18 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0127
Temperature measurement, 9 measuring points	Temperature measurement with 9 measuring points with a set value specified by the user, including certificate	03, 04, 05	DL30-0109
* Notes > See last page			

* Notes > See last page

Data Sheet Model MK 240

BINDER

Description	*	ArtNo.
Execution of IQ/OQ in accordance with qualification folder	05	DL41-0200
Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0040
	Execution of IQ/OQ in accordance with qualification folder Execution of IQ/OQ/PQ in accordance with qualification folder	Execution of IQ/OQ in accordance with qualification folder 05 Execution of IQ/OQ/PQ in accordance with qualification folder 05

* 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. UL mark is not granted when this option is used. 01
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard. 04
- 05 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).

BINDER GmbH

Tuttlingen, Germany TEL +49 7462 2005 0 FAX +49 7462 2005 100 info@binder-world.com www.binder-world.com

BINDER Asia Pacific (Hong Kong) Ltd.

Kowloon, Hong Kong, P.R. China TEL +852 39070500 FAX +852 39070507 asia@binder-world.com www.binder-world.com

BINDER Environmental Testing

Equipment (Shanghai) Co., Ltd. Shanghai, P.R. China TEL +86 21 685 808 25 FAX +86 21 685 808 29 china@binder-world.com www.binder-world.com

Representative Office for CIS

Moscow, Russia TEL +7 495 988 15 16 FAX +7 495 988 15 17 russia@binder-world.com www.binder-world.com

BINDER Inc.

Bohemia, NY, USA TEL +1 631 224 4340 FAX +1 631 224 4354 usa@binder-world.com www.binder-world.us