

Model M 720 | Drying and heating chambers with forced convection and advanced program functions

With a maximum of +300 °C and various programming options the M series material test chambers are ideal for material and aging tests. With a high air flow, the powerful fans ensure rapid heating.

BENEFITS

- Uniform drying conditions thanks to APT.line™ technology
- Identical test conditions throughout the chamber interior independent of sample size and quantity
- Outstanding thermal insulation saves operation costs
- Advanced programming options



Model 720



Model 720

IMPORTANT CHARACTERISTICS

- Temperature range: +15°C above ambient temperature up to +300°C
- High temperature accuracy thanks to APT.line™ technology with increased heating output
- Reinforced fan with adjustable speed
- Electromechanical control of the exhaust air flap
- Intuitive touchscreen controller with time-segment and real-time programming Internal data logger, measured values can be read out in open format via USB
- 2 chrome-plated racks

- Class 2 independent adjustable temperature safety device (DIN 12880) and class 3.1 independent temperature safety device (DIN 12880) with visual/ acoustic alarm available for selection on the controller
- Failsafe function backup sensor Pt 100
- Computer interface: Ethernet



TECHNICAL DATA

Designation M720-490V Anticle Number 9010-07/4 Option model Sandard Ferformance Dato Temperature #15 °C above ambient temperature to 300 °C Temperature range #5 °C above ambient temperature to 300 °C Temperature informity at 150°C 2 * K Temperature fluctuation at 150°C 3.5 * K Heating up time to 150°C 7 min Recovery time after door was opened for 30 s at 150°C 7 min Recovery time after door was opened for 30 s at 150°C 7 min Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 7 min Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C 40 N Recovery time after door was opened for 30 s at 150°C </th <th>Data</th> <th></th>	Data	
Option model Standard Performance Data Temperature Temperature range ≠15 °C above ambient temperature to 300 °C. Temperature uniformity at 150°C 2 ± K Temperature fluctuation at 150°C 0.5 ± K Heading up time to 150°C 1,4 min Recovery time after door was opened for 30 s at 150°C 7 min Air change rate at 100°C 40 x/h Besting at 30 at 150°C 400 V Rated Voltage 400 V Power fleuency 50/50 H2 Nominal power 6 kW Unif Use 16 A Phase (Nominal voltage) 3- Measures 1 Interior volume 735 I Net weight of the unit (empty) 19 kg Load per rack 45 kg Permitted load 31 kg Wall clearance sidewise 100 mm Heliefly net 160 mm Height net 160 mm Height net 160 mm Height net 160 mm Height net plate in the plate	Designation	M720-400V
Performance Data Temperature 115 °C above ambient temperature to 300 °C Temperature range +15 °C above ambient temperature to 300 °C Temperature uniformity at 150°C 2 ± K Heating up time to 150°C 14 min Recovery time after door was opened for 30 s at 150°C 7 min Air change data **** Air change ata at 100°C 40 x/h Bestitical data **** Air change ata at 100°C 40 x/h Power frequency 50 /60 ½ Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3 - Measures *** Interior voltume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Wild net 150 mm Height net 550 mm Depth net 1000 mm Interior width 1000 mm Inte	Article Number	9010-0374
Temperature range +15 °C above ambient temperature to 300 °C Temperature unifornity at 150°C 2 ± K Temperature fluctuation at 150°C 14 min Recovery time after door was opened for 30 s at 150°C 7 min Air change data Acr Change ate at 100°C Air change ate at 100°C 40 N Electrical data 400 V Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3 ° Weasures Interior volume Neasures 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance sidewise 160 mm Wall clearance sidewise 160 mm Wall clearance sidewise 160 mm Wall clearance sidewise 150 mm Height net 1590 mm Depth net 150 mm Height net 1500 mm Linetion which 1000 mm Interior width 1000 mm </td <td>Option model</td> <td>Standard</td>	Option model	Standard
Temperature uniformity at 150°C 2 ± K Temperature fluctuation at 150°C 0.5 ± K Heading up time to 150°C 7 min Recovery time after door was opened for 30 s at 150°C 7 min Air change data W Air change rate at 100°C 40 N/h Betedical data W Rated Voltage 400 V Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Wominal voltage) 3 ~ Measures 1 Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections Will the minute of the	Performance Data Temperature	
Temperature fluctuation at 150°C 0.5 ± K Heating up time to 150°C 14 min Accovery time after door was opened for 30 s at 150°C 7 min Air change rate at 100°C 40 x/h Electrical data	Temperature range	+15 °C above ambient temperature to 300 °C
Heating up time to 150°C 14 min Recovery time after door was opened for 30 s at 150°C 7 min Air change data 40 x/h Electrical data 400 V Bated Voltage 50 60 Hz Power frequency 50 60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3- Measures 1 minetion volume Net weight of the unit (empty) 166 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Height net 1560 mm United the tent of the fittings and connections 160 mm Wild the things and connections 160 mm United or width 1500 mm Depth net 1500 mm Interior width 1000 mm Interior width 1000 mm Interior width 1000 mm Unit doors 2 Environment-specific data 53 dB(A) Sound-pressure	Temperature uniformity at 150°C	2 ± K
Recovery time after door was opened for 30 s at 150°C 7 min Air change data 40 x/h Air change rate at 10°C 40 x/h Electrical data 400 Y Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3- Measures 735 L Net weight of the unit (empty) 166 kg Load per rack 45 kg Pemitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 1590 mm Depth net 1590 mm Depth net 1590 mm Interior width 1000 mm Interior width 1000 mm Interior width 1000 mm Interior depth 565 mm Unit doors 2 Environment-specific data 53 dB(A) Environment-specific data 1000 Wh/h	Temperature fluctuation at 150°C	0.5 ± K
Air change data Air change rate at 100°C 40 x/h Electrical data Rated Voltage 400 V Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3~ Measures WI Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance sidewise 160 mm Wall clearance sidewise 160 mm Housing dimensions not incl. fittings and connections 1160 mm Height net 1590 mm Depth net 816 mm Interior width 1000 mm Interior height 1300 mm Interior height 1300 mm Interior depth 565 mm Unit doors 53 dB(A) Environment-specific data 53 dB(A) Environment-specific data 53 dB(A) Environment-specific data 53 dB(A)	Heating up time to 150°C	14 min
Air change rate at 100°C 40 x/h Electrical data 400 V Rated Voltage 400 V Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3~ Measures Interior volume 73 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections Interior wind measures in the properties of the prope	Recovery time after door was opened for 30 s at 150°C	7 min
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Power frequency 50/60 Hz Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3~ Measures Interior volume Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 160 mm Width net 1590 mm Height net 1590 mm Depth net 816 mm Interior width 1000 mm Interior height 1300 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data 53 dB(A) Environment-specific data 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Electrical data	
Nominal power 6 kW Unit fuse 16 A Phase (Nominal voltage) 3~ Measures Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 1590 mm Height net 1590 mm Depth net 816 mm Interior width 1000 mm Interior width 1000 mm Interior width 1300 mm Interior depth 1300 mm Unit doors 2 Environment-specific data 565 mm Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Rated Voltage	400 V
Unit fuse 16 A Phase (Nominal voltage) 3~ Measures The control of the unit (empty) 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1590 mm Width net 1590 mm Depth net 816 mm Interior width 1000 mm Interior width 1000 mm Interior height 300 mm Interior depth 565 mm Unit doors 2 Fivironment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 150 Wh/h	Power frequency	50/60 Hz
Measures Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 1590 mm Depth net 1590 mm Depth net 1590 mm Interior width 1000 mm Interior height 1300 mm Interior height 1300 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Nominal power	6 kW
Measures Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 1160 mm Height net 1590 mm Depth net 816 mm Interior width 1000 mm Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Unit fuse	16 A
Interior volume 735 L Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections *** Width net 1590 mm Depth net 816 mm Interior width 1000 mm Interior width 1000 mm Interior width 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Phase (Nominal voltage)	3~
Net weight of the unit (empty) 169 kg Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 11590 mm Depth net 816 mm Interior width 1000 mm Interior width 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Measures	
Load per rack 45 kg Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections Width net 1160 mm Height net 1590 mm Depth net 816 mm Interior Width Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures 1050 Wh/h	Interior volume	735 ^L
Permitted load 315 kg Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections Width net 1160 mm Height net 1590 mm Depth net 816 mm Interional Dimensions 1000 mm Interior width 1000 mm Interior height 3300 mm Interior depth 2 Environment-specific data 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures 1000 mm	Net weight of the unit (empty)	169 kg
Wall clearance back 160 mm Wall clearance sidewise 100 mm Housing dimensions not incl. fittings and connections 1160 mm Width net 1590 mm Depth net 816 mm Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data 53 dB(A) Energy consumption at 150°C 1050 Wh/h	Load per rack	45 kg
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Housing dimensions not incl. fittings and connections Width net 1160 mm Height net 1590 mm Depth net 816 mm Internal Dimensions Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1000 mm Fixtures	Wall clearance back	160 mm
Width net 1160 mm Height net 1590 mm Depth net 816 mm Internal Dimensions Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Wall clearance sidewise	100 mm
Height net 1590 mm Depth net 816 mm Internal Dimensions Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Housing dimensions not incl. fittings and connections	
Depth net816 mmInternal Dimensions1000 mmInterior width1000 mmInterior height1300 mmInterior depth565 mmUnit doors2Environment-specific data53 dB(A)Energy consumption at 150°C1050 Wh/hFixtures1050 Wh/h	Width net	1160 mm
Interial Dimensions Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Height net	1590 mm
Interior width 1000 mm Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Depth net	816 mm
Interior height 1300 mm Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Internal Dimensions	
Interior depth 565 mm Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Interior width	1000 mm
Unit doors 2 Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Interior height	1300 mm
Environment-specific data Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Interior depth	565 mm
Sound-pressure level 53 dB(A) Energy consumption at 150°C 1050 Wh/h Fixtures	Unit doors	2
Energy consumption at 150°C 1050 Wh/h Fixtures	Environment-specific data	
Fixtures	Sound-pressure level	53 dB(A)
	Energy consumption at 150°C	1050 Wh/h
Number of shelves (std./max.) 2/16	Fixtures	
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		

All technical data is specified for unloaded units with standard equipment at an ambient temperature of $\pm 20^{\circ}$ C $\pm 3^{\circ}$ C and a power supply voltage fluctuation of $\pm 10^{\circ}$ W. 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]





OPTIONS

Designation	Description	Option model	*	Article Number
		10 mm		8012-2296
	left	30 mm		8012-2302
		50 mm		8012-2305
		100 mm		8012-2299
	right	10 mm		8012-2298
Nagasa naut with ciliaana niva		30 mm		8012-2304
Access port with silicone plug		50 mm	1	8012-2307
		100 mm		8012-2301
	top	10 mm	_	8012-2297
		30 mm	_	8012-2303
		50 mm		8012-2306
		100 mm	_	8012-2300
Analog output 4-20 mA	for temperature values (output not adjustable)		2	8012-2295
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature			8012-2328
	for temperature, measurement in center of chamber at specified temperature	_		8012-2324
Calibration certificate, temperature	temperature measurement incl. certificate, 9 measuring points at specified temperature			8012-2327
	temperature measurement incl. certificate, 15- 18 measuring points at specified temperature	_		8012-2325
	temperature measurement incl. certificate and 27 measuring points at specified temperature	_		8012-2326
Door lock	lockable door handle	=		8012-2336
HEPA air filter	On fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 μ m); not in conjunction with reinforced heating output, reinforced fan	_		8012-2314
Inner chamber, reinforced	max. total load 350 kg	_		8012-2323
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	_		8012-2329
Pt 100 temperature sensor	Additional flexible Pt 100, interior, for displaying the temperature on the unit display. (Not combined with specimen temperature control option)	_		8012-2330
Specimen temperature control	With additional specimen temperature sensor.	_		8012-2343

ACCESSORIES

Designation	Description	Option model	Article Number
APT-COM™ 4 BASIC-Edition	for simple logging and documentation requirements with up to 5 networked units.	version 4, BASIC edition	9053-0039
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- Edition	convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units.	version 4, PROFESSIONAL edition	9053-0040



Designation	Description	Option model	Article Number
	IQ/OQ/PQ documents – supporting documents for validation performed by customers,	Digital in PDF format	7057-0005
Qualification documents	according to customer requirements, PQ section added to qualification folder IQ/OQ ; parameters: temperature, CO_2 , O_2 – or pressure, depending on unit	Hard copy inside folder	7007-0005
	IQ/OQ documents – supporting documents for validation performed by customers,	Digital in PDF format	7057-0001
	consisting of: IQ/OQ checklists incl. calibration guide and comprehensive unit documentation; parameters: temperature, CO_2 , O_2 , pressure, depending on unit	Hard copy inside folder	7007-0001
Rack		chrome plated	8012-2037
		stainless steel	8012-2170
Rack, heavy load	Stainless steel, max. load per rack 70 kg		8012-2185
Shelf, perforated		Stainless steel	8012-2178
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg		8012-2250

SERVICES

Designation	Description	* Article * Number
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	DL50-0010
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
Calibration certificate.	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	DL30-0101
temperature	Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate	DL30-0102
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	DL41-0200
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	DL44-0500
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 test temperature specified by the user in the center of the usable space, including certificate	DL20-0910
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	DL20-0200
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	DL33-0000
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		DL20-0810
Temperature measurement, 9 Temperature measurement with 9 measuring points with a set value specified by the user, including certificate measuring points		DL30-0109
Temperature measurement, 18 Temperature measurement with 18 measuring points with a set value specified by the user, including certificate		DL30-0118
Temperature measurement, 27 measuring points	Temperature measurement with 27 measuring points with a set value specified by the user, including certificate	DL30-0127
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)	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	5 DL10-0500



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.
- 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 Inc.

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

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

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