

Model ED 720 | Drying and heating chambers with natural convection

The strengths of a BINDER ED series drying chamber include routine drying and sterilization tasks up to 300 °C. Thanks to the natural convection, all thermal processes which use this drying chamber are highly efficient. The ED series ensures fast, uniform drying.

BENEFITS

- · Best energy efficiency on the market
- · Excellent temporal and spatial temperature accuracy
- · USB connection for recording data
- Temperature range up to +300 °C



Model 720

MAIN FEATURES

- Temperature range: +5 °C above ambient temperature to +300 °C
- Up to 30% lower energy consumption compared to conventional units on the market
- High temperature accuracy thanks to APT.line™ technology
- Natural convection
- Controller with LCD display
- · Electromechanical control of the exhaust air flap

- 2 chrome-plated racks
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm
- Ergonomic handle design
- USB port for recording data

ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	ArtNo.
743	400 V 3~ ph 50/60 Hz	Standard	ED720-400V	9010-0341



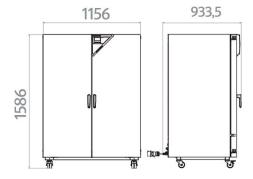
TECHNICAL DATA

Description	ED720-400V ⁴
Article Number	9010-0341
Performance Data Temperature	
Temperature range +5 °C above ambient temperature to [°C]	300
Temperature variation at 150 °C [± K]	3.2
Temperature fluctuation at 150 °C [± K]	0.8
Heating-up time to 150 °C [min]	85
Recovery time after 30 seconds door open at 150 °C [min]	25
Air change data	
Air change (approx.) at 100 °C $[x/h]$	2
Electrical data	
Rated Voltage [V]	400
Power frequency [Hz]	50/60
Nominal power [kW]	4.1
Unit fuse [A]	16
Phase (Nominal voltage)	3~
Measures	
Interior volume [L]	743
Net weight of the unit (empty) [kg]	161
Permitted load [kg]	315
Load per rack [kg]	45
Wall clearance back [mm]	160
Wall clearance sidewise [mm]	100
Internal Dimensions	
Width [mm]	960
Height [mm]	1280
Depth [mm]	605
Doors	
Inner doors	2
Unit doors	2
Housing dimensions not incl. fittings and connections	
Width net [mm]	1165
Height net [mm]	1590
Depth net [mm]	870
Environment-specific data	
Energy consumption at 150 °C [Wh/h]	700
Fixtures	
Number of shelves (std./max.)	2/16

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. 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

ack 10 mm 30 mm 50 mm ft 10 mm 30 mm 50 mm 50 mm 100 mm ght 10 mm 30 mm 50 mm	01 01 01 01 01 01 01 01	8012-1282 8012-0546 8012-0546 8012-1075 8012-1018 8012-1030 8012-1030 8012-1031
30 mm ft 10 mm 30 mm 50 mm 100 mm ght 10 mm 30 mm 50 mm 10 mm	01 01 01 01 01 01 01 01	8012-0546 8012-0546 8012-1275 8012-1018 8012-1030 8012-1268 8012-1017 8012-1021
50 mm ft 10 mm 30 mm 50 mm 100 mm ght 10 mm 30 mm 50 mm	01 01 01 01 01 01 01	8012-1275 8012-1018 8012-1022 8012-1030 8012-1268 8012-1017 8012-1021
ft 10 mm 30 mm 50 mm 100 mm ght 10 mm 30 mm 50 mm 10 mm	01 01 01 01 01 01 01	8012-1275 8012-1018 8012-1022 8012-1030 8012-1268 8012-1017 8012-1021
10 mm 30 mm 50 mm 100 mm ght 10 mm 30 mm 10 o mm	01 01 01 01 01 01	8012-1018 8012-1022 8012-1030 8012-1268 8012-1017 8012-1021
30 mm 50 mm 100 mm ght 10 mm 30 mm 50 mm 100 mm	01 01 01 01 01 01	8012-1018 8012-1022 8012-1030 8012-1268 8012-1017 8012-1021
50 mm 100 mm ght 10 mm 30 mm 50 mm 100 mm	01 01 01 01 01	8012-1022 8012-1030 8012-1268 8012-1017 8012-1021
100 mm ght 10 mm 30 mm 50 mm 100 mm	01 01 01 01	8012-1030 8012-1268 8012-1017 8012-1021
ght 10 mm 30 mm 50 mm 100 mm	01 01 01 01	8012-1268 8012-1017 8012-1021
10 mm 30 mm 50 mm 100 mm	01 01 01	8012-1017 8012-1021
30 mm 50 mm 100 mm	01 01 01	8012-1017 8012-1021
50 mm 100 mm	01 01	8012-1021
100 mm	01	
pp		8012-1031
10 mm		
	01	8012-1262
30 mm	01	8012-053
50 mm	01	8012-054
100 mm	01	8012-102
witchable acoustic alarm, with adjustable limit value on the independent temperature safety device	-	8012-1635
r temperature values (output not adjustable)	02	8012-1623
r temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1115
r temperature, measurement in center of chamber at specified temperature	-	8012-1134
mperature measurement incl. certificate and 27 measuring points at specified temperature	-	8012-1593
mperature measurement incl. certificate, 15- 18 measuring points at specified temperature	-	8012-1572
mperature measurement incl. certificate, 9 measuring points at specified temperature	-	8012-1551
ith visual alarm (DIN 12880)	-	8012-098
attery-backed	_	8012-1640
ade of FKM, silicone-free	-	8012-1013
ckable door handle	-	8012-1817
r Multi Management Software APT-COM™	-	8012-183
ax. total load 350 kg	-	8012-182
ith two 15 W light bulbs		
400 V option model	-	8012-182
	30 mm 30 mm 30 mm witchable acoustic alarm, with adjustable limit value on the independent temperature safety device r temperature values (output not adjustable) r temperature; for extending the measurement in center of chamber to include another test temperature r temperature, measurement in center of chamber at specified temperature mperature measurement incl. certificate and 27 measuring points at specified temperature mperature measurement incl. certificate, 15- 18 measuring points at specified temperature mperature measurement incl. certificate, 9 measuring points at specified temperature ith visual alarm (DIN 12880) attery-backed ade of FKM, silicone-free ckable door handle r Multi Management Software APT-COM TM ax. total load 350 kg	30 mm 50 mm 61 100 mm 61 witchable acoustic alarm, with adjustable limit value on the independent temperature safety device 7 remperature values (output not adjustable) 7 remperature; for extending the measurement in center of chamber to include another test temperature 8 remperature, measurement in center of chamber at specified temperature 9 remperature measurement incl. certificate and 27 measuring points at specified temperature 9 mperature measurement incl. certificate, 15- 18 measuring points at specified temperature 9 mperature measurement incl. certificate, 9 measuring points at specified temperature 1 th visual alarm (DIN 1288o) 1 challery-backed 2 and of FKM, silicone-free 1 ckable door handle 7 remulti Management Software APT-COM™ 2 ax. total load 350 kg 3 challery bulbs

^{*} Notes > See last page



Designation	Description	*	ArtNo.
Measurement of air exchange rate	in accordance with ASTM D5374, definition and protocol according to ambient temperature	-	8012-0195
Pt 100 temperature sensor	additional flexible Pt 100, interior, for displaying the temperature on the unit display	-	8012-1619
Viewing window and interior lighting	viewing window (triple insulating glass) in door, 300 x 480 mm, and 30 W interior		
	400 V option model	-	8012-1830
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^{*} Notes > See last page

ACCESSORIES

Designation	Description	*	ArtNo.
APT-COM™ 4 BASIC-	for simple logging and documentation requirements with up to 5 networked units.		
Edition	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.		
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
	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		
	Digital in PDF format	-	7057-0001
O	Hard copy inside folder	-	7007-0001
Qualification documents	$IQ/OQ/PQ$ 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	-	7057-000
	Hard copy inside folder	-	7007-000
D = -1-	chrome plated	-	8012-204
Rack	stainless steel	-	6004-016
Rack, heavy load	Stainless steel, max. load per rack 70 kg	-	6004-024
Shelf, perforated	Stainless steel	_	6004-019

^{*} 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	DL10-0100
Unit instructions	Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming	05	DL10-0500
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 test temperature specified by the user in the center of the usable space, including certificate	05	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	05	DL20-0200

^{*} Notes > See last page



Designation	Description	*	ArtNo.
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	DL20-0810
Calibration services			
Calibration certificate, temperature	Calibration of one (1) test temperature specified by the user in center of chamber, including certificate	03, 04, 05	DL30-0101
	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
Measurement of air exchange rate	including certificate (in accordance with ASTM D5374)	03, 04, 05	DL33-0000
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
Validation services			
Execution of IQ/OQ	Execution of IQ/OQ in accordance with qualification folder	05	DL40-0100
Execution of IQ/OQ/PQ	Execution of IQ/OQ/PQ in accordance with qualification folder	05	DL44-0500
Warranty service			
1-year warranty extension	The warranty is extended by 1 year from the delivery date, wear parts are excluded	-	DL50-0010

^{*} 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.
- 02
- Sensor calibration is performed in an accredited calibration laboratory. 03
- Calibration is performed according to the BINDER factory standard.
- Quoted prices do not include travel costs. Please refer to the chapter on BINDER Service for travel costs for your region. Quoted prices for services performed in Switzerland do not include a country-specific added fee (available on request).

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