

# Model E 28 | Drying and heating chambers with mechanical adjustment

With a BINDER E series heating oven, you obtain a reliable and powerful unit in a solid configuration at a very attractive price. This heating oven is preferred for tasks in basic research, as well as in human and veterinary medicine.

## 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



Model 28



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## MAIN FEATURES

- Temperature range: 60 °C to 230 °C
- Adjustable exhaust air flap
- Hydro-mechanical thermostat
- Class 1 temperature limitation device (Model E028-230V-T)
- Timer 0 – 120 min
- 2 chrome-plated racks

## ORDERING INFORMATION

Interior volume [L]	Voltage	Option model	Version	Art.-No.
28	230 V 1~ ph 50/60 Hz	Standard	E028-230V	9010-0001
		with TB class 1	E028-230V-T	9010-0003
	120 V 1~ ph 60 Hz	Standard	E028-120V	9010-0106

## TECHNICAL DATA

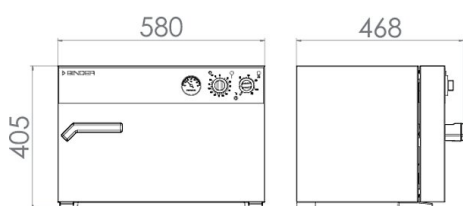
Description	E028-230V <sup>1</sup>	E028-230V-T <sup>1</sup>	E028-120V <sup>1</sup>
Article Number	9010-0001	9010-0003	9010-0106
<b>Performance Data Temperature</b>			
Temperature range	60...230	60...230	60...230
Heating-up time to 150 °C [min]	36	36	36
Recovery time after 30 seconds door open at 150 °C [min]	19	19	19

<sup>1</sup> 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.

Description	E028-230V <sup>1</sup>	E028-230V-T <sup>1</sup>	E028-120V <sup>1</sup>
Article Number	9010-0001	9010-0003	9010-0106
<b>Electrical data</b>			
Rated Voltage [V]	230	230	120
Power frequency [Hz]	50/60	50/60	60
Nominal power [kW]	0.8	0.8	0.8
Phase (Nominal voltage)	1~	1~	1~
<b>Measures</b>			
Interior volume [L]	28	28	28
Net weight of the unit (empty) [kg]	22	22	22
Permitted load [kg]	25	25	25
Load per rack [kg]	10	10	10
Wall clearance back [mm]	160	160	160
Wall clearance sidewise [mm]	100	100	100
<b>Internal Dimensions</b>			
Width [mm]	400	400	400
Height [mm]	280	280	280
Depth [mm]	250	250	250
<b>Doors</b>			
Unit doors	1	1	1
<b>Housing dimensions not incl. fittings and connections</b>			
Width net [mm]	580	580	580
Height net [mm]	405	405	405
Depth net [mm]	425	425	425
<b>Fixtures</b>			
Number of shelves (std./max.)	2/4	2/4	2/4

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## DIMENSIONS incl. fittings and connections [mm]



## OPTIONS

Designation	Description	*	Art.-No.
Calibration certificate, expanded	for temperature; for extending the measurement in center of chamber to include another test temperature	-	8012-1114
Calibration certificate, temperature	for temperature, measurement in center of chamber at specified temperature	-	8012-1133

\* Notes › See last page

## ACCESSORIES

Designation	Description	*	Art.-No.
pH-neutral detergent	concentrated, for gentle remove of residual contaminants; 1 kg	-	1002-0016
Rack	chrome plated	-	6004-0001
Rubber pads	set anti-slip feet	-	8012-0702
Shelf, perforated	Stainless steel	-	6004-0028

\* Notes › See last page

## SERVICES

Designation	Description	*	Art.-No.
<b>Installation services</b>			
Unit installation	Unpacking and setting up of unit, connecting to existing connections, and checking function	13, 18	DL10-0100
Unit instructions	Unit function instructions for operation and programming of the controller	18	DL10-0500
<b>Preventive maintenance</b>			
Maintenance	Functional testing of all electrical and mechanical components, short calibration, documentation in the maintenance schedule	14, 18	DL20-0200
<b>Calibration services</b>			
Temperature calibration	Expansion – including certificate, each additional measuring point in center of chamber at specified test temperature	14, 16, 17, 18	DL30-0102
	Temperature calibration with 1 measuring point in center of chamber at a specified test temperature, including certificate	14, 16, 17, 18	DL30-0101
<b>Warranty service</b>			
Warranty extension from 2 to 3 years	The warranty is extended from 2 to 3 years from the delivery date, wear parts are excluded	-	DL00-1041
Warranty extension from 2 to 5 years	The warranty is extended from 2 to 5 years from the delivery date, wear parts are excluded	-	DL00-1042

\* Notes › See last page

## NOTES

- 01 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.
- 03 Heat resistant only to max. 200 °C.
- 04 Only available on units rated for 230 V.
- 07 The additional heat input may affect the temperature behavior.
- 09 Not in conjunction with the optional access port, door with window and interior lighting.
- 10 Not available on 23-liter units.
- 11 Not available on 23- or 53-liter units.
- 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.
- 14 We recommend a BINDER service contract to cover unit inspections, calibrations and validations.
- 15 OQ according to Yellow Paper = completed factory validation documentation of all OQ checklists.
- 16 Sensor calibration is performed in an accredited calibration laboratory.
- 17 Calibration is performed according to the BINDER factory standard.
- 18 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).
- 19 For additional accessories, refer to the Process documentation chapter.

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