

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 [cu.ft.] | Voltage | Option model | Version | Art.-No. |
|--------------------------|-------------------|-----------------|-------------|-----------|
| Model E 28 | | | | |
| 1 | 230 V 1~ 50/60 Hz | Standard | E028-230V | 9010-0001 |
| | | with TB class 1 | E028-230V-T | 9010-0003 |
| | 120 V 1~ 60 Hz | Standard | E028-120V | 9010-0106 |

TECHNICAL DATA

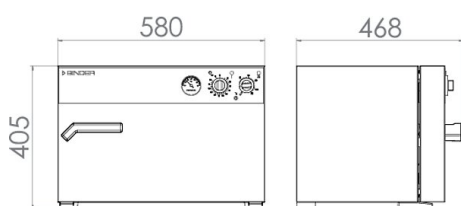
| Description | E028-230V ¹ | E028-230V-T ¹ | E028-120V ¹ |
|--|------------------------|--------------------------|------------------------|
| Article Number | 9010-0001 | 9010-0003 | 9010-0106 |
| Performance Data Temperature | | | |
| Temperature range [°C] | 60...230 | 60...230 | 60...230 |
| Heating-up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

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.

| Description | E028-230V ¹ | E028-230V-T ¹ | E028-120V ¹ |
|--------------------------------------|------------------------|--------------------------|------------------------|
| Article Number | 9010-0001 | 9010-0003 | 9010-0106 |
| Electrical data | | | |
| 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~ |
| Outer dimensions | | | |
| Width net [in] | 22.85 | 22.85 | 22.85 |
| Height net [in] | 15.96 | 15.96 | 15.96 |
| Depth net [in] | 16.74 | 16.74 | 16.74 |
| Wall clearance back [in] | 6.3 | 6.3 | 6.3 |
| Wall clearance sidewise [in] | 3.94 | 3.94 | 3.94 |
| Doors | | | |
| Unit doors | 1 | 1 | 1 |
| Internal Dimensions | | | |
| Width [in] | 15.76 | 15.76 | 15.76 |
| Height [in] | 11.03 | 11.03 | 11.03 |
| Depth [in] | 9.85 | 9.85 | 9.85 |
| Measures | | | |
| Interior volume [cu.ft.] | 1 | 1 | 1 |
| Net weight of the unit (empty) [lbs] | 49 | 49 | 49 |
| permitted load [lbs] | 55 | 55 | 55 |
| Load per rack [lbs] | 22 | 22 | 22 |
| Fixtures | | | |
| Number of shelves (std./max.) | 2/4 | 2/4 | 2/4 |

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DIMENSIONS INCL. FITTINGS AND CONNECTIONS [MM]



OPTIONS AND ACCESSORIES

| 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 |
| 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. |
|---|--|----------------|-----------|
| Installation services | | | |
| Installation | and set up of unit at operating location, connect to existing connections | 13, 18 | DL10-0100 |
| Instruction | unit function instructions for operation and programming of the controller | 18 | DL10-0500 |
| Preventive maintenance | | | |
| Preventive maintenance | Executive of equipment inspection according to maintenance plan | 14, 18 | DL20-0200 |
| Calibration services | | | |
| Calibration temperature incl. certificate | including certificate, one measuring point in center of chamber at specified temperature | 14, 16, 17, 18 | DL30-0101 |
| Warranty service | | | |
| Extension of the warranty from 2 to 3 years | beginning with the date of delivery, wearing parts are not included | - | DL00-1041 |
| Extension of the warranty from 2 to 5 years | beginning with the date of delivery, wearing parts are not included | - | 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.
- 06 Heating-up time may increase as a result of the lower heat conductivity.
- 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.
- 20 When ordering IQ/OQ qualification folders and associated IQ/OQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ folder.
When ordering IQ/OQ/PQ qualification folders and associated IQ/OQ/PQ execution on one order, we offer a 15 % discount for the item of the IQ/OQ/PQ folder.

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

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.ru

BINDER Environmental Testing
Equipment (Shanghai) Co., Ltd.
Shangha, P.R. China
TEL +86 21 685 808 25
FAX +86 21 685 808 29
china@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