

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

## 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 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              |
| 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                     |
| Electrical data  |                        |                          |                        |
| Rated Voltage [V]  | 230                    | 230                      | 120                    |

<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              |
| Power frequency [Hz]                  | 50/60                  | 50/60                    | 60                     |
| Nominal power [kW]                    | 0.8                    | 0.8                      | 0.8                    |
| Phase (Nominal voltage) [ph]          | 1                      | 1                        | 1                      |
| <b>Measures - Outer dimensions</b>    |                        |                          |                        |
| Width net [mm]                        | 580                    | 580                      | 580                    |
| Height net [mm]                       | 405                    | 405                      | 405                    |
| Depth net [mm]                        | 425                    | 425                      | 425                    |
| Wall clearance back [mm]              | 160                    | 160                      | 160                    |
| Wall clearance sidewise [mm]          | 100                    | 100                      | 100                    |
| <b>Measures - Doors</b>               |                        |                          |                        |
| Unit doors                            | 1                      | 1                        | 1                      |
| <b>Measures - Internal Dimensions</b> |                        |                          |                        |
| Width [mm]                            | 400                    | 400                      | 400                    |
| Height [mm]                           | 280                    | 280                      | 280                    |
| Depth [mm]                            | 250                    | 250                      | 250                    |
| <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                     |
| <b>Fixtures</b>                       |                        |                          |                        |
| Number of shelves (std./max.)         | 2/4                    | 2/4                      | 2/4                    |

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.

## 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 |
| Shelf, perforated                    | stainless steel   | - | 6004-0028 |

\* Notes › See last page

## SERVICES

| Designation                         | Description  | *              | Art.-No. |
|-------------------------------------|--|----------------|----------|
| <b>Installation services</b>        |  |                |          |
| Installation                        | and set up of unit at operating location, connect to existing connections                | 13, 18         | DL100100 |
| <b>Preventive maintenance</b>       |  |                |          |
| Preventive maintenance              | Executive of equipment inspection according to maintenance plan                          | 14, 18         | DL200100 |
| <b>Calibration services</b>         |  |                |          |
| Data Logger Kit calibration service | including certificate, one measuring point in center of chamber at specified temperature | 14, 16, 17, 18 | DL300101 |

\* Notes › See last page

| Designation                                 | Description   | * | Art.-No. |
|---|---|---|----------|
| Warranty service                            |   |   |          |
| Extension of the warranty from 2 to 3 years | beginning with the date of delivery, wearing parts are not included | - | DL001041 |
| Extension of the warranty from 2 to 5 years | beginning with the date of delivery, wearing parts are not included | - | DL001042 |

\* 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.
- 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 (see the chapter on BINDER Service) 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 both items.  
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.