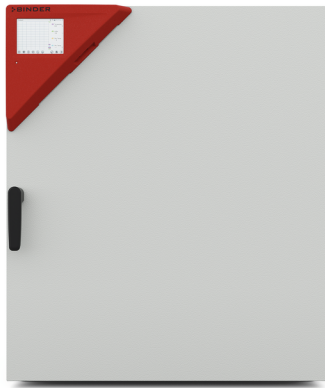


Model M 260 | Drying and heating chambers with forced convection and advanced program functions

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 260



Model 260

IMPORTANT FEATURES

- Temperature range: +14°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
- 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
- Internal data logger, measured values can be read out in open format via USB

ORDERING INFORMATION

| Interior volume | Power supply - unit fuse | Plug* | Version | Model version | Art.-No. |
|--------------------|--------------------------|---------------------------|-------------------------|---------------|---------------------|
| [L] | [L] | | | | |
| Model M 260 | | | | | |
| 256 | 256 | 400 V 3~ 50/60 Hz -16,0 A | CEE 16 / 6 H plug 5-pin | Standard | M260-400V 9010-0373 |

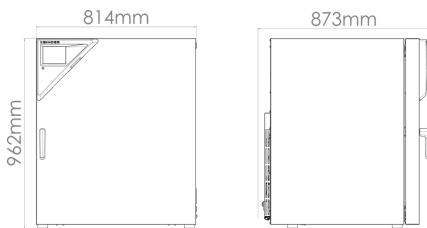
TECHNICAL DATA

| Data | |
|---|--|
| Designation | M260-400V |
| Article Number | 9010-0373 |
| Option model | Standard |
| Performance Data Temperature | |
| Temperature range | +14 °C above ambient temperature to 300 °C |
| Temperature uniformity at 150°C | 1,5 ± K |
| Temperature fluctuation at 150°C | 0,4 ± K |
| Heating up time to 150°C | 13 min |
| Recovery time after door was opened for 30 s at 150°C | 6 min |
| Air change data | |
| Air change rate at 100°C | 65 x/h |
| Electrical data | |
| Rated Voltage | 400 V |
| Power frequency | 50/60 Hz |
| Nominal power | 3,1 kW |
| Unit fuse | 16,0 A |
| Phase (Nominal voltage) | 3~ |
| Dimensions and weights | |
| Interior volume | 256 L |
| Net weight of the unit (empty) | 86 kg |
| Load per rack | 40 kg |
| Permitted load | 270 kg |
| Wall clearance back | 160 mm |
| Wall clearance sidewise | 100 mm |
| Housing dimensions not incl. fittings and connections | |
| Width net | 810 mm |
| Height net | 962 mm |
| Depth net | 786 mm |
| Internal Dimensions | |

| | |
|----------------------------------|----------|
| Interior width | 650 mm |
| Interior height | 780 mm |
| Interior depth | 505 mm |
| Unit doors | 1 |
| Environment-specific data | |
| Sound-pressure level | 46 dB(A) |
| Energy consumption at 100°C | 370 Wh/h |
| Energy consumption at 150°C | 560 Wh/h |
| Fixtures | |
| Number of shelves (std./max.) | 2/8 |

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. 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 | * | Art.-No. |
|--------------------------------|-------------|----|-----------|
| | left | | |
| | 10 mm | 01 | 8012-2296 |
| | 30 mm | 01 | 8012-2302 |
| | 50 mm | 01 | 8012-2305 |
| Access port with silicone plug | 100 mm | 01 | 8012-2299 |
| | right | | |
| | 10 mm | 01 | 8012-2298 |
| | 30 mm | 01 | 8012-2304 |
| | 50 mm | 01 | 8012-2307 |

| Designation | Description | * | Art.-No. |
|--------------------------------------|--|----|-----------|
| | 100 mm | 01 | 8012-2301 |
| | top | | |
| | 10 mm | 01 | 8012-2297 |
| | 30 mm | 01 | 8012-2303 |
| | 50 mm | 01 | 8012-2306 |
| | 100 mm | 01 | 8012-2300 |
| Analog output 4-20 mA | for temperature values (output not adjustable) | 02 | 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 gasket | made of FKM, silicone-free | - | 8012-2333 |
| Door lock | lockable door handle | - | 8012-2335 |
| Gas-tight option model | Incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option | - | 8012-2310 |
| HEPA air filter | On fresh air supply for unit; filter classification H14 (acc. to. EN 1822-1:2009, > 99.995% at 0.3 µm); not in conjunction with reinforced heating output, reinforced fan | - | 8012-2313 |
| Inert gas connection | With gas inlet and outlet, Ø 10 mm, incl. additional measures for the greatest possible impermeability to gas; not in conjunction with access port or interior lighting option | - | 8012-2317 |
| Inner chamber, reinforced | max. total load 300 kg | - | 8012-2322 |
| Interior lighting | with 27 W light bulb | | |
| | 230/240 V option model | - | 8012-2318 |
| 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 | - | 8012-2330 |
| Specimen temperature control | With additional specimen temperature sensor. Standard function 2 zero-voltage relay contacts not applicable. | - | 8012-2343 |

ACCESSORIES

| Designation | Description | * | Art.-No. |
|-------------------------|---|---|-----------|
| | convenient unit and user management built on the BASIC edition. Suitable for networking up to 100 units. | | |
| | version 4, PROFESSIONAL edition | - | 9053-0040 |
| | for simple logging and documentation requirements with up to 5 networked units. | | |
| APT-COM™ 4 | version 4, BASIC edition | - | 9053-0039 |
| | 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 |
| Base | the base equipped with casters is used for the secure positioning and leveling of a BINDER drying and heating chamber | - | 9051-0034 |
| pH-neutral detergent | concentrated, for gentle remove of residual contaminants; 1 kg | - | 8012-2250 |
| | 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 | - | 7057-0005 |
| | Hard copy inside folder | - | 7007-0005 |
| Qualification documents | 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 |
| | Hard copy inside folder | - | 7007-0001 |
| | max. load per rack 40 kg | | |
| Rack | chrome plated | - | 8012-2042 |
| | stainless steel | - | 8012-2169 |
| | max. load per rack 70 kg | | |
| Rack, heavy load | Stainless steel | - | 8012-2184 |
| Rubber pads | set anti-slip feet | - | 8012-2030 |
| | max. load per rack 40 kg | | |
| Shelf, perforated | Stainless steel | - | 8012-2177 |
| Table on castors | stable cart, casters with locking brakes, dimensions: W 1,300 x D 800 x H 780 mm | - | 9051-0019 |

SERVICES

| Designation | Description | * | Art.-No. |
|--|---|---|-----------|
| Calibration services | | | |
| Measurement of air exchange rate | including certificate (in accordance with ASTM D5374) | – | DL33-0000 |
| Temperature calibration | Calibration of one (1) test temperature specified by the user in center of chamber, including certificate Travel to be quoted separate. | – | DL30-0120 |
| | Extension of calibration of one (1) additional test temperature specified by the user in the center of the usable space, including certificate Travel to be quoted separate. | – | DL30-0102 |
| Temperature measurement, 9 measuring points | Temperature measurement with 9 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | – | DL30-0109 |
| Temperature measurement, 18 measuring points | Temperature measurement with 18 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 2 shelves are required. | – | DL30-0118 |
| Temperature measurement, 27 measuring points | Temperature measurement with 27 measuring points with a set value specified by the user, including certificate. Travel to be quoted separate. A total of 3 shelves are required. | – | DL30-0127 |
| Installation services | | | |
| Unit installation | 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) Travel to be quoted as separate. | – | DL10-0100 |
| Unit instructions | Instruction regarding operating principle and basic functions of the unit, operation of the control electronics including programming. Travel to be quoted as separate Limited to 3 hours. | – | DL10-0500 |
| Maintenance services | | | |
| BRONZE 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate. 10% Discount on Spare Parts and Labor for any additional Services needed Wear + tear parts to be purchased or billed to customer. Travel to be quoted as separate. | – | DL20-0720 |
| GOLD 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate of Temperature. 25% Discount on Spare Parts and Labor for any additional Services needed. One additional courtesy visit per year can be used for service visit or operator. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate. | – | DL20-0910 |
| Preventive maintenance | One-off maintenance service in accordance with maintenance schedule. Visual inspection of mechanical and electrical components, testing of all key functions. Checking a test temperature specified by the user in center of usable space without certificate. Wear + tear parts need to be purchased or billed to customer. Travel to be quoted as separate. | – | DL20-0602 |
| SILVER 3-year maintenance contract | Annual Device Inspection Includes Preventive Maintenance with Calibration Certificate 15% Discount on Spare Parts and Labor for any additional Services needed One additional courtesy visit per year can be used for service visit or operator training. Wear + tear parts to be purchased or billed to customer. Travel to be quoted separate. | – | DL20-0810 |
| Validation services | | | |
| Execution of IQ/OQ | Execution of IQ/OQ in accordance with qualification folder. Travel to be quoted separate. | – | DL41-0200 |
| Execution of IQ/OQ/PQ | Execution of IQ/OQ/PQ in accordance with qualification folder. Travel to be quoted separate. | – | DL44-0500 |

| Designation | Description | * | Art.-No. |
|---------------------------|--|---|-----------|
| Warranty service | | | |
| 1-year warranty extension | The warranty is extended by 1 year from the delivery date, wear parts are excluded | – | DL50-0010 |

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.

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