

M 115 - Temperature test chambers with forced convection and individual programming

Because of its individual programming options and ability to operate at maximum temperatures up to 300 °C (572 °F), the M series is ideally suited for materials testing and aging tests. The heavy-duty air turbine and a programmable exhaust ventilation flap provide rapid heating-up and ensure that the test temperature is maintained absolutely precise at all levels, with minimal spatial fluctuations; performance as never before.



Performance features and equipment:

- Electronically controlled APT.line™ preheating chamber assuring temperature accuracy and reproducible results
- Temperature range 5 °C (9 °F) above ambient temperature up to 300 °C (572 °F)
- MCS controller with 25 storable programs of 100 sections each for a maximum of 500 program segments
- Features:
 - User friendly LCD screen
 - Easy-to-read menu guide
 - Integrated electronic chart recorder
 - · Variety of options for the graphic display of process parameters
 - Real time clock
- Adjustable ramp function via program editor
- Program-controlled ventilation flap
- High air-exchange rate through high-performance fan
- Adjustable fan speed
- Exhaust duct Ø 50 mm (1.97 inch)
- Temperature safety device class 2 (DIN 12880) with visual alarm
- Printer and communication interface RS 422 for use with optional GMP/GLP and FDA guideline 21 CFR Part 11 compliant APT-COM™ DataControlSystem software
- Units up to 115 liters are stackable
- 2 chrome-plated racks included
- BINDER test certificate



Technical specification M 115



1) value without window

2) up to 98 % of the set value

All technical data are specified for units with standard equipment at an ambient temperature of 25 °C and a voltage fluctuation of ±10 %. The temperature data are determinated in accordance to factory standard following DIN 12880 respecting 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 alter technical specifications at all times.



Options and accessories M series





Access ports

With silicon plugs for inserting external measuring devices into the chamber. Access ports with 10, 30, 50 mm (0.4, 1.2, 2 inch) diameter.

Lockable door

Prevents unauthorized access and interference with processes in the chamber.



Calibration certificates

Measurement in the center at specified values. Additional measuring points or test values according to your specification.

Options and accessories M series



	M 115
Access port with silicone plugs, 10 mm (0.39 inch), 30 mm (1.18 inch), 50 mm (1.97 inch), 100 mm (3.94 inch)	0
Securing elements for additional fastening of racks (1 set of 4 pieces)	0
Anti - slip rubber pads for safe stacking (1 set of 4 pieces)	0
Keyboard lock	0
HEPA fresh-air filter, Class H 14 (according to EN 1822, min. 99.999% for 0.3 μm particles)	0
Measurement of air change rate according to ASTM D5374, with definition and protocol according to ambient temperature (Mesurement in factory)	0
Analog temperature output, 4 - 20 mA, with 6 - pin DIN socket (output not adjustable)	0
Additional PT 100 temperature sensor, flexibly installed, with external connection, including LEMO connector (3 - pin)	0
Additional measuring channel for digital display of specimen temperature, with flexible PT 100 temperature sensor. Measuring data recorded through RS 422 port	0
Temperature measurement acc. to DIN 12880 (27 measuring points) at 150 °C (302 °F) or at specified temperature with measuring protocol and certificate	0
Factory calibration certificate. Measurement in center of chamber at 150 °C (302 °F) or at specified testing temperature	0
Extension to factory calibration certificate. Each additional measurement at an additional measuring point or temperature	0
Data Logger Kit T 350: For the continuous temperature recording of 0 °C (32 °F) to 350 °C (662 °F). Kit includes 1 data logger, PT 100 sensor with 2 m Teflon extension cable and 1 fixture for the connection at the BINDER unit	0
Data Logger Software: Configuration und evaluation software for all BINDER Data Logger Kits, incl. data cable	0
Rack, chrome - plated	0
Rack, stainless steel	0
Shelf, perforated, stainless steel	0
Door Lock	0
Door gasket, FKM (Viton)	0
Door with window 320 x 260 mm (12.60 x 10.24 inch) and interior lighting (15 W)	0
10.24 inch) and interior lighting (15 W)	0
Mostly gas - tight version	0

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