

Elastocon®

Cabinet oven, EB 41

– for ISO 188 method D tests on vulcanized or thermoplastic rubbers

The EB 41 cabinet oven is used for accelerated ageing or heat resistance tests on vulcanized or thermoplastic rubbers according to ISO 188 method D. This is an adjusted heating cabinet, model FD 56 in the Binder FD series, with forced convection.

Elastocon measures the heating cabinet for the desired temperatures, with 9 measuring points. One temperature is included by default. Costs for additional temperatures will be added.

The cabinet must also be adjusted to maintain temperature tolerance to be verified up to +250 °C.

A certificate is included showing the temperatures that have been measured and adjusted.

Please note that ISO 188 method D is limited for short term ageing up to 168 h.

For longer tests, use ovens compatible with ISO 188 method A instead. For example, Elastocon's cabinet oven EB 04-II* meets the requirements in ISO 188 method A.

* Learn more about EB 04-II here: <https://www.elastocon.com/ageing-ovens/cabinet-ageing-ovens/cabinet-oven-eb-04-ii>.

Binder FD Series features

- Temperature range: +10 °C above ambient temperature to +300 °C (verified up to +250 °C for ISO 188 method D).
- High temperature accuracy thanks to APT.line™ technology.
- Forced convection.
- Controller with LCD display.
- Electromechanical control of the exhaust air flap.
- 2 chrome-plated racks.
- Stackable.
- Class 2 integrated independent adjustable temperature safety device (DIN 12880) with visual alarm.
- Ergonomic handle design.
- USB port for recording data.



Technical specifications – Cabinet oven for ISO 188 method D, EB 41

FD 56

Temperature range, °C:	RT +10 till +250
Temp. control, RT +10 till 100 °C, °C:	±1
101 to 250 °C:	±2
Air changes, min: 30 changes /h:	80
Air speed, average, m/s:	0,25 to 3,0
Useful volume, l:	60
Dimensions, inner, w × h × d, mm:	400 × 440 × 345
Dimensions, external, w × h × d, mm:	560 × 625 × 565
Weight, kg:	41
Voltage, V/phase/freq:	230/1/50–60
Power, W:	1 100
Standards:	ISO 188 method D

Important recommendations for all instruments!

For the best performance of the instrument, we recommend the following working environment:

- Standard laboratory temperature of either 23 °C ± 2° or 27 °C ± 2°.
- Humidity not more than 90 % RH – non condensing.
- For long term logging instruments secure the power to the computer with a double converting UPS, for reducing electrical disturbances and power failure (ask Elastocon for recommendations or quotation).
- Other environmental aspects: Pollution degree 2 – Laboratory environment

ELASTOCON reserve the right to modify these specifications in part or in whole.

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