

Elastocon

Cabinet Ageing Ovens EB 04-II, EB 10-II and EB 12-II for precision ageing of rubber and plastic materials



**Interior
EB 04-II
EB 10-II**



EB 10-II - EB 12-II



controller

**EB 04-II
Flowmeter**

Elastocon's second generation of ovens for the precision ageing of polymeric materials. Specifications according to ISO 188 Method A, IEC 811 and other equivalent standards.

This range of ageing ovens reflects Elastocon's 22 years experience in production and development. They are easy to operate and offer a major step forward in design and functionality. Some improvements are:

- ⊕ Lower energy consumption by using improved insulation materials
- ⊕ Lower surface temperature
- ⊕ Colour touch screen control with micro PLC for easy entering of oven settings
- ⊕ Micro PLC control
- ⊕ Resettable countdown timer
- ⊕ Test identification - "Test name"
- ⊕ Alarm history
- ⊕ Improved door hinges and two point locking
- ⊕ Improved door sealing
- ⊕ Easier shelf installation and removal
- ⊕ New 4-layer glass window (OPTIONAL)

Model EB 04-II • Adjustable air exchange, 3 to 20 times/hr. Compressed air supply required.

Model EB 10-II • Fixed air exchange, 7 or 14 times/hr. By factory set throttle.

Model EB 12-II

Excellent temperature stability and distribution is achieved by using an inner chamber with a controlled air flow. As such performing well inside the requirements in ISO 188 method A, IEC 811 and other equivalent standards

The oven can be supplied in two sizes, with 60 and 120 l inner volume. The EB 10 II is ideal for ageing finished products and large test pieces which are unsuitable for cell ovens.

Both shelves and rods are supplied with the oven for accommodating most types of samples.

Cabinet Oven EB 12 II

Meets the requirements in ISO 188 method B and ISO 4577. The oven EB 12 II offers a high air speed with laminar flow from bottom to top.

The EB 12 II has the same specifications and external dimensions as the EB 10 II-60

Both models are available in standard version (40 to 200°C) and in HT-version (40 to 300°C)

Technical specifications

	EB 10 II-60 / 120 EB 04 II-60 / 120	EB 12 II
Temperature range:	40 to +200°C (HT=300°C)	40 to +200°C (HT=300°C)
Temp. control	40 - 200°C: ±0,5°C 201 - 300°C: ±1,0°C	±0,5°C ±1,0°C
Temp. variation in time and space:	±0,25°C	±0,25°C
Temperature sensors:	PT 100, 1/3 DIN	PT 100, 1/3 DIN
chamber volume	60 / (120) liter	50 liter
Air speed:	<0,001 m/s	1 ±0,5 m/s
Dimensions, chamber w x h x d:	60 liter - 450 x 450 x 300 mm 120 liter - 550 x 550 x 400 mm	450 x 450 x 250 mm
Dimensions, external, w x h x d:	60 liter - 810 x 720 x 620 mm 120 liter - 910 x 820 x 720 mm	810 x 720 x 620 mm
Dimensions glass window (option !)	4 layers – 200 x 300 mm	4 layers – 200 x 300 mm
Sample rod positions	60 liter - 15 120 liter - 24	15
No of rods included	60 liter – 10 pcs 120 liter – 12 pcs	15 pcs
Inner chamber illumination (option !)	10W 24 V halogen	10W 24 V halogen
Air changes EB 10 and EB 12*	7 / 14 changes/hour * preset by Manufacturer	7 / 14 changes/hour * preset by Manufacturer
Air changes EB 04 by compressed air	Adjustable 3 to 20 changes/hour	
Weight:	EB 10 II-60 – 86 kg EB 10 II-120 – 107 kg	86 kg
Voltage:	220-240/1/50	220-240/1/50
Power:	2100 W	2200 W
Standards:	ISO 188 method A. IEC 811 and others	ISO 188 method B and ISO 4577

General specifications

- ⊕ Special design with controlled air exchange rate and high air speed
- ⊕ The casing consists of steel, painted with epoxy powder paint in blue green colour.
- ⊕ The inner chamber is made of Stainless Steel
- ⊕ Temperature controller with 0.1°C set point(PLC)
- ⊕ Solid state relay for safe control.
- ⊕ Fixed over temperature fuse.
- ⊕ Temperature indicator with sensor in the inner chamber.
- ⊕ Fixed over temperature fuse.
- ⊕ Fixed set air exchange rate of 7 or 14 changes per hour, or adjustable with flow meter (EB 04 II)
- ⊕ Cooling channels in the casing for low surface temperature.
- ⊕ Controlled cooling fan for the electronics cabinet.
- ⊕ Run-time meter.
- ⊕ Countdown timer

Options

- ⊕ **EC 11 Monitor plus.** monitoring software with alarm function
- ⊕ Network cable
- ⊕ Ramp function for temperature settings in the PLC
- ⊕ Option **W**, four layer glass window and chamber illumination
- ⊕ Option **HT**, temperature range to 300°C

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