

## E070

### Autoclave

#### SOUNDNESS (EXPANSION) OF PORTLAND CEMENT

STANDARDS: Comparable to ASTM C151, C490 / AASHTO T107

It consists of a high pressure boiler made from special alloy steel, inside dia. mm, 154x430 high, receiving a holding rack for 10 cement specimens. The heating system is achieved by electric resistances. The separate control panel encloses a "digital thermometer" to visualize the boiler temperature, pressure gauge scale 0 - 600 psi with built in pressure regulator and power switches.

Supplied complete with rack for holding the specimens and safety valve with PED Cat. certificate according to the 97/23/CE Standard. Not sellable on CE market.

Power supply: 230V 1ph 50 Hz 3500 W 295 psi

Dimensions: 450x475x1080 mm

Weight: 75 kg

section E



320



E070



## MOULDS FOR SOUNDNESS (EXPANSION) AND SHRINKAGE TESTS (with length comparators, see next page)

Available models:

### E072

STANDARD: ASTM C490

TWO GANG PRISM MOULD to produce 25x25x250 mm specimens for expansion tests in autoclave.

Complete with 4 steel inserts. Weight: 6 kg

### E073

STANDARD: BS 1881, 6073

TWO GANG PRISM MOULD to produce 75x75x254 mm specimens. Complete with 4 steel inserts. Weight: 9 kg

**E072-01** CONTACT POINTS stainless steel, spare for E072 and E073 moulds. Pack of 10 pieces.



E072-01

### E075

#### Three gang prism mould to produce 40,1x40x160 mm mortar specimens

STANDARD: EN 12617-4

Comparable to: ASTM C438, NF P15-433

Used for the determination of linear shrinkage of cement mortar. Manufactured from steel with hardness over 200 HV.

All surfaces are grinded and all parts are marked with an identification number for a correct assembling.

A part-number is engraved on each mould and a Certificate of Conformity is supplied along with.

Complete with 6 steel inserts and fixing screws.

Weight: 8,600 kg

SPARE PART:

**E075-01** CONTACT POINTS, stainless steel, complete with fixing screw. Pack of 12

ACCESSORIES:

### E075-10

STANDARD: EN 12808-4

SPACER, teflon made, dimensions 15x40x160 mm to put into the chamber of the E075 mould, to produce 10x40x160 mm specimens for shrinkage tests as per EN 12808-4 Standard.

Pack of 6 spacers.

### E075-11

INSERTS, for the 10x40x160 mm specimen.

Standard: EN 12808-4

Pack of 12 inserts.

MATEST

**E107**

STANDARDS: NF P15-434 / DIN 1164  
 THREE GANG PRISM MOULD to produce 40x40x160 mm specimens. Made from steel 55 HRB. Complete with 6 inserts. Weight: 8 kg



**E113**

STANDARD: NF P18-427  
 THREE GANG PRISM MOULD to produce 70x70x280 mm specimens. Made from steel 55 HRB. Complete with 6 inserts. Weight: 17 kg

**E107-01** CONTACT POINTS, spare for E107 and E113 moulds. Pack of 12 pieces.

**Length comparator**

STANDARDS: EN 12617-4, 1367-4, 12808-4 / ASTM C151, C490, NF P15-433, P18-427 / BS 1881:5, 6073 / DIN 1164

Used to measure the length variations of mortar specimens after autoclave soundness tests. The top beam is adjustable to suit the specimen's length.

It also measures the linear shrinkage of specimens having different dimensions like:

- 40x40x160 mm EN 12617-4, EN 12808-4, ASTM C348, UNI 6687, NF P15-433, DIN 1164
- 25x25x250 mm ASTM C490
- 70x70x280 mm NF P18-427
- 75x75x254 mm BS 1881, 6073
- 50x50x200 mm EN 1367-04

Supplied "without reference rod"

(see accessories)

Dimensions: dia. 180 x 450 mm

Weight : 10 kg

E077 KIT + E078-01

E078 KIT + E078-04

E077-01 KIT



AVAILABLE MODELS:

**E077 KIT**

LENGTH COMPARATOR with Analogic Dial Indicator, 5 mm travel by 0,001 mm divisions, mod. S375

as an alternative:

**E077-01KIT**

LENGTH COMPARATOR with Digital Gauge 15,3 mm travel by 0,001 mm divisions mod. S382-02, complete with battery, but "without" RS232 port

as an alternative:

**E078 KIT**

LENGTH COMPARATOR with Digital Gauge 12,7 mm travel by 0,001 mm divisions mod. S382-01, complete with battery and RS232 connection to PC.

ACCESSORY for mod. E078 KIT :

**S382-13**

Software, complete with USB adaptor and connection cable to PC.

ACCESSORIES for E077 KIT, E077-01 KIT and E078 KIT:

**E078-04** Reference rod, Invar, for 40x40x160mm specimens Standards: EN 12617-4, EN 12808-4, NF P15-433

**E078-01** Reference rod, Invar, for 25x25x250mm and 75x75x254mm specimens. Standards: ASTM C490, BS 1881, UNI 8520

**E078-03** Reference rod, Invar, for 70x70x280 mm specimens Standard: NF P18-427

**E078-06** Reference rod, Invar, for 50x50x200 mm specimens Standard: EN 1367-04

