Alkali Aggregate Reaction Bath

LT-A0086 / LT-A0085 | Controlled bath for ASR mortar bars

Digital temperature control • PT100 monitoring • Low-water alarm



36 / 2 × 36

SPECIMEN CAPACITY OPTIONS

100 °C

UPPER TEMPERATURE LIMIT

25 × 25 × 285 mm mortar bars • CSA A23.2-25A • ASTM C1260 applications

LT-A0086 / LT-A0085

Photograph and Bath Components

Glass cover, specimen holders, digital panel and wheeled body

The reaction bath conditions ASR mortar bars at a controlled temperature. Capacity options are 36 or 2 × 36 specimens. Stainless steel construction, a sealed glass cover and digital control support the conditioning arrangement.

GLASS COVER

The sealed tempered-glass cover permits visual inspection of the working chamber.

DIGITAL CONTROL

The front panel provides temperature adjustment and monitoring. An external PT100 monitors bath water.

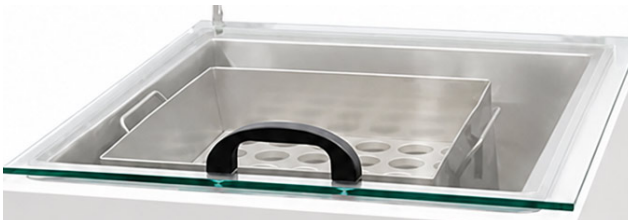


WHEELED BODY

The stainless steel body stands on casters for repositioning. Secure its position before testing.

SPECIMEN HOLDER

Polyamide racks hold mortar bars vertically and prevent direct contact between adjacent specimens.



Glass cover and specimen placement area

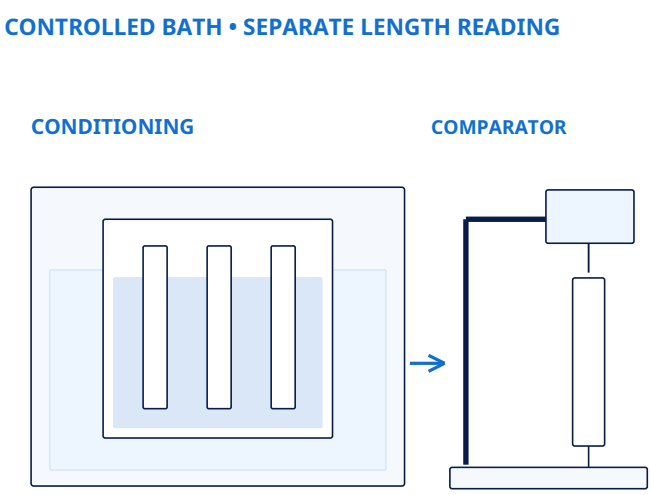


Digital temperature control and front panel

LT-A0086 / LT-A0085

Conditioning and Length-Change Measurement

Prepare mortar bars • Condition in bath • Measure with comparator



Prepare Mortar Bars

Prepare 25 × 25 × 285 mm mortar bars as prescribed. Record specimen identification and initial length.

Condition in the Bath

Match solution, temperature and duration to the method. Monitor water level and the PT100 reading.

Measure Length Change

Read each bar on a separate length comparator. Calculate expansion from initial and subsequent readings.

In ASR evaluation, the interaction between reactive silica in the aggregate and alkalis may cause mortar bars to expand. The bath provides controlled conditioning; length changes are determined using separate measuring equipment and interpreted by the test method.

Temperature and Specimen Layout

Digital control is adjustable from ambient temperature to 100 °C, with 0.1 °C setting resolution. An external PT100 sensor assists with monitoring bath-water temperature.

Polyamide racks hold bars vertically and apart. A tempered-glass cover closes the working chamber. Monitor the electronic low-water alarm to maintain conditioning conditions.

Method and Measurement Accessories

ASTM C1260 evaluates potential alkali-silica reactivity using accelerated mortar bars. CSA A23.2-25A is also listed for related testing applications.

The LT-A0048 comparator, analog or digital indicator, mould, steel inserts and 305 mm reference rod support length measurements. Match measuring equipment to the method in the context of ASTM C490/C490M.

Model Options and Technical Specifications

LT-A0086: 36 specimens • LT-A0085: 2 × 36 specimens

Model Code	Capacity	Dimensions	Approx. Mass	Power Supply
LT-A0086	36	550 × 1000 × 800 mm	70 kg	220 V, 50–60 Hz, single phase
LT-A0085	2 × 36	1200 × 1000 × 800 mm	100 kg	220 V, 50–60 Hz, single phase

Specification / Accessory	Technical Information
Temperature Range	Ambient temperature to 100 °C
Digital Setting Resolution	0.1 °C
Temperature / Level Monitoring	External PT100; electronic low-water alarm
Body / Mobility	Stainless steel; wheeled construction
Specimen Layout / Cover	Polyamide racks; sealed tempered-glass cover
LT-A0048	Length comparator
LT-G8000	Analog indicator: 10 mm range / 0.01 mm resolution
LT-G8009	Digital indicator: 12.7 mm range / 0.001 mm resolution
LT-CE0038	Two-gang mould: 25 × 25 × 285 mm
LT-CE0038/2	Steel inserts: set of 10
LT-CE0038/3	Reference rod: 305 mm

Plan Conditioning and Length Measurement Together

Select temperature, solution and measurement times according to the method. The bath conditions specimens; expansion is calculated from initial and subsequent comparator readings.

From Mortar Bar to ASR Evaluation

01
Prepare
Prepare bars and record initial length.

02
Condition
Hold in solution at specified temperature and duration.

03
Measure
Measure length change at prescribed times.

04
Evaluate
Calculate expansion and report by the method.

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