Fresh Concrete Air Content Meter

LT-C0070 / LT-C0072 | Pressure method air-content testing

7 and 8 litres • Integrated hand pump • Sealed valve-equipped lid



7 / 8 L

MEASURING BOWL VOLUME BY MODEL

Air (%)

FRESH CONCRETE AIR-CONTENT RESULT

EN 12350-7 • ASTM C231 • AASHTO T152 • BS 1881:108

Photographs and Components

Gauge, integrated pump, valve-equipped lid, clamps and measuring bowl

The fresh concrete air content meter determines air content using the pressure method. An integrated hand pump and gauge support laboratory and field measurements. The range offers two models with 7- and 8-litre capacities.

PRESSURE GAUGE

The upper dial allows the operator to monitor pressure and air-content readings during testing.

PUMP AND VALVES

The integrated hand pump pressurises the upper chamber. Valves control pressure during the procedure.



MEASURING BOWL

The aluminium bowl holds a known volume of fresh concrete. Capacity is 7 or 8 litres, depending on the model.

LID AND CLAMPS

A sealed lid and quick-clamping arrangement close the test assembly. Check seals and connections before use.



Gauge, pump and valve details



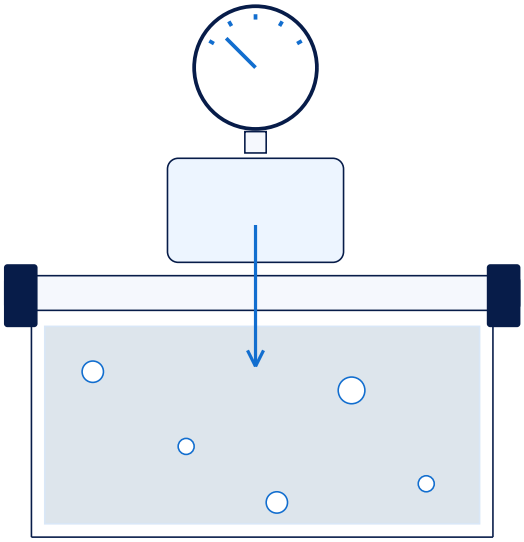
Alternative product view from the range

Pressure Method and Measurement

Prepare specimen • Secure lid • Apply pressure • Record air content

PRESSURE TRANSFER • SCHEMATIC SECTION

GAUGE AND UPPER AIR CHAMBER



FRESH CONCRETE + AIR VOIDS

RESULT: AIR CONTENT (%)

UPPER CHAMBER VALVE CONCRETE SPECIMEN

Prepare the Specimen

Fill and compact the bowl to the method. Strike off the surface and clean lid contact surfaces.

Apply Pressure

Secure the lid. Use the pump and valves according to the selected method; check connections for leakage.

Read and Record

Read the stable gauge value. Apply any required aggregate correction to the method and record air content.

The pressure method evaluates compressible air volume within fresh concrete. Report the result with specimen identification, model, method and required corrections. Check calibration and leak tightness before measurement.

Model and Accessory Selection

LT-C0070 provides a 7-litre capacity, measures 25 × 26 × 52 cm and weighs 10 kg. The LT-C0072 Type B model provides 8 litres, measures 28 × 30 × 55 cm and weighs 13 kg.

The standard set includes a strike-off blade and tamping rod. A carrying case is ordered separately. Clean the instrument before transport and protect its connections.

Preparation and Repeatability

Take a representative specimen. Follow the selected standard for filling, compaction and surface finishing. Keep concrete residue off the sealing surfaces.

Use consistent models, methods and records when comparing measurements from the same production series. Assess results against the mix requirements; clean the bowl, lid and valves after testing.

Models and Specifications

LT-C0070 / LT-C0072 • Capacity, overall size, weight and test equipment

Product Code	Model	Capacity (L)	Size (cm)	Weight (kg)
LT-C0070	Air content meter	7	25 × 26 × 52	10
LT-C0072	Type B air meter	8	28 × 30 × 55	13

Technical Feature	Value / Description
Test Method	Pressure method
Measured Result	Fresh concrete air content (%)
Pressure Generation	Integrated hand pump
Lid and Retention	Sealed valve-equipped lid / quick clamps
Measuring Bowl	Aluminium body
Standard Accessories	Strike-off blade / tamping rod
Optional Accessory	Carrying case
Test References	EN 12350-7; ASTM C231; AASHTO T152; BS 1881:108

Leak Tightness and Aggregate Correction

Check lid, seals and valves before testing. Select pressure and aggregate correction according to the chosen standard; release pressure safely before opening the lid.

Air Content Test Workflow

01
Fill and Compact
Fill bowl and strike off the surface.

02
Secure the Lid
Clean contact surfaces and tighten clamps.

03
Apply Pressure
Use pump and valves to the method.

04
Read and Record
Record air content; release pressure and clean.

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