

## BLAINE PERMEABILITY APPARATUS

**101-E0121**

**STANDARD: EN 196-6; ASTM C204; BS 4359-2**

# MatCivTest

MATERIAL CIVIL TEST EQUIPMENT

### BLAINE PERMEABILITY APPARATUS

**101-E0121-10**

The Blaine Air Permeability test is widely used in the cement industry to control and optimize the grinding process and to ensure that the cement meets the required specifications for fineness. It provides a quantitative measurement that helps in quality control during the production of cement.

Dimension 180 (L) x 140 (W) x 390 (H)

Approx Weight 5kg

Set consists of:

Manometer ( x 1)

Permeability Cell (c/w Plunger, Perforated disc and Stopper)

Bulb Aspirator with Rubber Tube ( x 1)

Manometer Liquid (250ml x 1 bottle)

Panel Board with Stand

Reference Material (NIST Cement SRM 114q or equivalent—1 vial)

Light Grease



Optional Extras

**Waterproof Thermometer 101-Exxxxx**

Range 49.9 to 199.9°C x 0.1°C

Resolution 0.1°C/F

Accuracy ±1°C/F (19.99 to 119°C)

Battery 1.5 Volt LR44

Display 8mm LCD

Dimensions 15 x 24 x 200mm

Weight 25 grams

Filter papers

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### ELECTRONIC BLAINE FINESSE

101-E0121-20

Used to determine the particle size of Portland cement, limes and similar powders expressed in terms of their specific surface. It consists of a cell, perforated disc and plunger. An U-tube glass manometer is fit to the steel stand.



### BLAINE AIR PERMEABILITY APPARATUS, SEMI AUTOMATIC

STANDARD: EN 196-6, ASTM C204, BS 4550

101-E0121-30

The Blaine Air Permeability Apparatus determines the fineness of Portland cement in terms of the specific surface area expressed as the total surface area in square centimetres per gram of mortar or cement. The Blaine works by drawing a definite quantity of air through a cement bed exhibiting a definitive porosity value. The number and size of the pores in a prepared bed of definite porosity are a function of the particles' size and determine the airflow rate through the bed.

The Blaine Air Permeability Apparatus consists of:

- Filter papers 12.8 mm dia. (1000 pcs.)
- Fill oil 50 ml -Light grease 50 ml
- Measuring cell -Thermometer
- Brush Funnel
- Official calibration certificate .

#### Features: Semi-Automatic

Mounted on a steel frame with a rubber-footed base.

Dimensions: (W x D x H) = 170 x 300 x 410 mm

Weight: 4.6 Kg

Power: 110 / 230 V / 50 / 60Hz



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## BLAINE AIR PERMEABILITY APPARATUS, PC CONTROLLED

STANDARD: EN 196-6, ASTM C204, BS 4550

101-E0121-35

The Blaine Air Permeability Apparatus determines the fineness of Portland cement in terms of the specific surface area expressed as the total surface area in square centimetres per gram of mortar or cement. The Blaine works by drawing a definite quantity of air through a bed of cement exhibiting a definitive porosity value. The number and size of the pores in a prepared bed of definite porosity is a function of the particles' size and determines the air-flow rate through the bed.

The Blaine Air Permeability Apparatus consists of:

- Filter papers 12.8 mm dia. (1000 pcs.)
- Fill oil 50 ml
- Light grease 50 ml
- Measuring cell
- Thermometer
- Brush
- Funnel

### Features: -PC-Controlled\*.

Mounted on a steel frame with a rubber-footed base

Dimensions (W x D x H) 170 x 280 x 410 mm

Weight 4.7 kg

Power 110—230 V / 50—60 Hz

\* Excluded from price—A standard PC with monitor is required to operate this system in which is not supplied by us.



### Optional Extras:

101-E0121-90 Blaine Air Permeability Apparatus, reference sand (course)

101-E0121-91 Blaine Air Permeability Apparatus, reference sand (fine)