

AUTOMATIC VICAT RECORDING APPARATUS

The **C3505** & **C3506** Automatic Vicat Recording Apparatus have a distinct advantage over the traditional manual types. Since manual types give inevitable differences in the test execution it is quite difficult to test the setting time of an hydraulic binder with accurate results. Air pockets, mixtures and clots create problems for determining precisely the initial and final setting times. The **C3505** & **C3506** executes the tests fully automatic, which offers absolute precision and eliminates manual error. The mold with the specimen has a spiral movement allowing 90 needle penetrations always in a different position. The probe weight is 300 gm and the needle has an end diameter of 1 mm. The penetration cycle of the probe is 30 seconds or at time intervals of 1, 5, 10, 15, or 30 minutes for each penetration. The chart rotates 2.5 mm for each penetration. The lower horizontal line corresponds to maximum needle penetration. At the end of the test the drum automatically returns to the original position. The set is furnished with 50 charts, two needles, two molds, glass plate and one writing pencil with set of leads. Dimensions: 200mm x 350mm x 420mm.



| MODELS | DESCRIPTION | STANDARDS |
|--------------|---|---|
| C3505 | VICAT RECORDING APPARATUS, 110V / 60 Hz | ASTM C-91, C-187, / AASHTO T-131 / EN-196 / DIN -1164. 1168 / NF P 15-414, P 15-431 UNE-80102 / BS-4550 / D.M. 3/6/68 |
| C3506 | VICAT RECORDING APPARATUS, 220V / 50 Hz | |

| ACCESSORIES | DESCRIPTION |
|--------------|----------------------------|
| C3507 | VICAT NEEDLE, 1MM ST. STL. |

MODIFIED VICAT CONE PENETROMETER APPARATUS



The **C3517** Modified Vicat Cone Penetrometer for mortar and masonry features a 10 cm scale with an aluminum cone and attached plunger. The total weight of the plunger assembly is 200 g. The apparatus also includes a frame, moveable rod with variable weights and plunger assemblies. Also featured is a 400 ml measure for sampling as specified by ASTM C-780.

| MODELS | DESCRIPTION | STANDARDS |
|--------------|----------------------------------|------------|
| C3517 | MODIFIED VICAT CONE PENETROMETER | ASTM C-780 |

WATER RETENTION DEVICE



The **C3751** is a device used in specification tests of masonry cement and physical testing of quicklime and hydrated lime. The unit consists of an aspirator (with mercury column relief), a 3-way stopcock, rubber gasket, flask, brass funnel, perforated brass dish, mercury manometer (indicates vacuum), associated hardware, with a wooden stand.

| MODELS | DESCRIPTION | STANDARDS |
|--------------|------------------------|--------------------------------|
| C3751 | WATER RETENTION DEVICE | ASTM C-91, C-110, C-207, E-149 |

| ACCESSORIES | DESCRIPTION |
|--------------|--|
| C3752 | FILTER PAPER, GRADE 95, 15 CM, 100/PKG |