

PERMEABILITY

●● HC49.25

Cement Mortar and Concrete Permeability Apparatus (100 mm dia single Cell model) IS : 3085-1965

Suitable for determination of permeability of cement mortar and concrete specimens of 100 mm diameter and 100 mm high, either cast in the laboratory or obtained by cutting out cores from existing structure.

The equipment comprises the following :-

- i) One permeability cell for 100 mm dia specimens consisting of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel. An air bleed valve is provided on the cover plate. Made of gun metal.
- ii) A control panel fitted with a water reservoir, graduated glass tube, an inlet valve, pressure regulator, pressure gauge 0-15 kg sq.cm, an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell.
- iii) One glass bottle to collect the percolated water

●● HC49.26

Cement Mortar and Concrete Permeability Apparatus (100 mm dia Single Cell Model) IS : 3085-1965

Same as HC49.25 but with cell made of steel.

●● HC49.30

Cement Mortar and Concrete Permeability Apparatus (100 mm dia Three Cell Model) IS : 3085-1965

It consists of three sets as of HC49.25, mounted on a single control panel for testing independently three specimens of 100 mm dia x 100 mm high.

The equipment consists of the following :-

- i) Three permeability cells for 100 mm dia specimens. Each cell consists of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel. Made of gun metal.
- ii) A control panel with three independent control circuits for three permeabil-

ity cells, each control circuit consisting of a water reservoir, graduated gauge, glass tube, air inlet valve, pressure regulator, pressure gauge 0-15 kg/sq. cm, an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell. A common air inlet for the three units is provided for connecting to the air compressor.

- iii) One glass/plastic bottle to collect the percolated water are also supplied.



HC49.30

●● HC49.31

Cement Mortar and Concrete Permeability Apparatus

(100 mm dia Three Cell Model) IS : 3085-1965

Same as HC49.30 but with cells made of steel.

●● HC49.35

Cement Mortar and Concrete Permeability Apparatus (150 mm dia Single Cell Model) IS : 3085-1965

The apparatus is similar to HC49.25 but provided with a permeability cell for 150 mm dia x 150 mm high specimen.

The equipment comprises the following :-

- 1 One Permeability Cell for 150 mm dia specimens consisting of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel. An air bleed valve is provided on the cover plate. Made of gun metal.
- 2 A control panel fitted with a water reservoir, graduated glass tube, an inlet valve, pressure regulator, pressure gauge 0-15 kg/sq cm, an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell.
- 3 One glass bottle to collect the percolated water.

●● HC49.36

Cement Mortar and Concrete Permeability Apparatus (150 mm dia Single Cell Model) IS : 3085-1965

Same as HC49.35 but with steel cell.

●● HC49.40

Cement Mortar and Concrete Permeability Apparatus (150 mm dia Three Cell Model) IS : 3085-1965

It consists of three sets as of HC49.35, mounted on a single control panel for testing independently three specimens of 150 mm dia x 150 mm high.

The equipment consists of the following :-

- 1 Three permeability cells for 150 mm dia specimens. Each cell consists of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel. Made of gun metal.
- 2 A control panel with three independent control circuits for three permeability cells, each control circuits consisting of a water reservoir, graduated gauge, glass tube, air inlet valve, pressure reg-

ulator, pressure gauge 0-15 kg/sq. cm., an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell. A common air inlet for the three units is provided for connecting to the air compressor.

3. Three glass/plastic bottle to collect the percolated water are also supplied.



HC49.40



●● HC49.41

Cement Mortar and Concrete Permeability Apparatus (150 mm dia, Three Cell Model) IS:3085-1965

Same as HC49.40 but with steel cells.

●● HC49.45

Cement Mortar and Concrete Permeability Apparatus (300 mm dia, Single Cell Model) IS:3085-1965

The apparatus is similar to HC49.25 but provided with a permeability cell for 300 mm dia x 300 mm high specimen.

The equipment comprise the following :-

i) One permeability cell consisting of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel.

An air bleed valve is provided on the cover plate. Made of gun metal.

ii) A control panel fitted with a water reservoir, graduated glass tube, an inlet valve, pressure regulator, pressure gauge 0-15 kf/sq. cm an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell.

iii) One glass bottle to collect the percolated water.

●● HC49.46

Cement Mortar and Concrete Permeability Apparatus (300 mm dia, Single Cell Model) IS:3085-1965

Same as HC49.45 but with steel cell.

●● HC49.50

Cement Mortar and Concrete Permeability Apparatus (300 mm dia, Three Cell Model) IS:3085-1965

It consists of three sets as of HC49.45, mounted on a single control panel for testing independently three specimens of 300 mm dia x 300 mm high.

The equipment consists of the following :-

i) Three permeability cells for 300 mm dia specimens. Each cell consists of a metal cylinder with a ledge at the bottom and flange at the top, one removable cover plate and a funnel. Made of gun metal.

ii) a control panel with three independent control circuits for three permeability cells, each control circuit consisting of a water reservoir, graduated gauge, glass tube, air inlet valve, pressure regulator, pressure gauge 0-15 kg/sq.cm, an air bleed valve, a drain cock for water reservoir and a shut-off valve for the permeability cell. A common air inlet for the three units.

iii) Three glass bottles to collect the percolated water are also supplied.

●● HC49.51

Cement Mortar and Concrete Permeability Apparatus (300 mm dia Three Cell Model) IS : 3085-1965

Same as HC49.50 but with steel cells.

●● HL102.10

Air Compressor

Suitable for use with HC 49.25 to HC 49.51. Cement Mortar and Concrete permeability Apparatus.

It is a two stage compressor for developing high pressure upto 20 kg/sq.cm. It has a large air tank. Complete with ON-OFF switch, a pressure switch, safety valve, pressure gauge and one pressure outlet valve.

Suitable for operation on 440 v, 3 phase, 50 Hz supply. Other electrical specifications available on request.

Note :

1 Air compressor required for the application of pressure in HC49.25 to HC49.51 Cement Mortar and concrete permeability apparatus is not supplied with the apparatus but can be had at extra cost as an accessory.

ACCESSORIES :

HC49.25.1

Permeability cell for 100 mm dia specimens, made of steel.

HC49.35.1

Permeability cell for 150 mm dia specimens, made of gun metal.

HC49.36.1

Permeability cell for 150 mm dia specimens, made of steel

HC49.45.1

Permeability cell for 300 mm dia specimens, made of gun metal.

HC49.46.1

Permeability cell for 300 mm dia specimens, made of steel.

HC49.25.2

Graduated gauge glass tube.

HC49.25.3

Pressure pipe for connection from control panel to permeability cell.

HC49.25.4

Pressure pipe from compressor to panel.