



GENERAL DESCRIPTION

Infiltration is a process where water enters into the soil, generally by downward flow through all or part of the soil. The rate at which water infiltrates into the soil is an important factor to be considered when designing an irrigation system. It varies from one soil to another, depending on the structure of the soil and moisture conditions.

This unit has been developed for the demonstration of the infiltration processes.

The unit is mounted in an anodized aluminium and painted steel panels and comprises three transparent graduated cylinders in which soil samples are placed. The cylinders have an air breather and at the bottom a perforated plate which retains the material while allowing the water to drain through.

Water is poured onto the soil surface into each cylinder and its progress through the samples can be observed.

SPECIFICATIONS

This demonstration infiltration unit is suited for use both as a teaching and demonstration unit and for laboratory testing and research.

Anodized aluminium structure and panels in painted steel.

Main metallic elements in stainless steel.

Diagram in the front panel with similar distribution that the elements in the real unit.

3 Graduated transparent cylinders.

Tank for water.

Manuals:

This unit is supplied with the following manuals: Required Services, Assembly and Installation, Starting-up, Safety, Maintenance & Practices manuals.



ISO 9000: Quality Management
(for Design, Manufacturing,
Commercialization and After-sales service)



European Union Certificate
(total safety)



**Certificates ISO 14000 and
ECO-Management and Audit Scheme**
(environmental management)



**Worlddidac Quality Charter
Certificate**
(Worlddidac Member)

EXERCISES AND PRACTICAL POSSIBILITIES TO BE DONE WITH MAIN ITEMS

Some Practical Possibilities of the Unit:

- 1.- Understand the effects of existing soil moisture conditions on infiltration.
- 2.- Understand the effects of soil texture and structure on infiltration.
- 3.- Comparison of the rates of infiltration in different types of soil.
- 4.- Determination of surface effects on infiltration.

REQUIRED SERVICES

- Water supply and drainage.
- Soil samples.

RECOMMENDED ACCESSORIES

- A chronometer to enable the speed of infiltration to be measured.

DIMENSIONS & WEIGHTS

- Dimensions: 550 x 450 x 950 mm. approx.
- Weight: 50 Kg. approx.

*Specifications subject to change without previous notice, due to the convenience of improvements of the product.



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REPRESENTATIVE:

