

**FE
SERIES**

Demonstration Infiltration Apparatus – FEL5-MKII

A simple but effective laboratory demonstration of infiltration processes, which are fundamental to any form of irrigation study.

The FEL5-MKII Demonstration Infiltration Apparatus comprises of three transparent cylinders in which soil samples are placed. Water poured onto the soil surface can then be observed as it infiltrates the sample.

Description

The Armfield Demonstration Infiltration Apparatus provides a simple but effective laboratory demonstration of infiltration processes, which are fundamental to any form of irrigation.

Each cylinder features a graduated scale so that observations may be quantified. Each cylinder incorporates an air breather and a perforated base plate to facilitate drainage without undue soil loss.



Experimental content

- ▶ Demonstration of the effect of crusting on infiltration
- ▶ Understand the effects of soil texture and structure on infiltration
- ▶ Understand the effects of existing soil moisture conditions on infiltration
- ▶ Demonstration of relationship between soil type and infiltration and penetration rates
- ▶ Demonstration of the relationship between soil particle size and infiltration
- ▶ The effect of organic matter content on infiltration and penetration rate
- ▶ The effect of non-homogeneous soil strata on infiltration and penetration rates
- ▶ The effect of moisture content on infiltration and penetration rates
- ▶ The effect of straw mulch on infiltration rate

Overall dimensions

Length	0.50m
Width	0.40m
Height	0.90m

Packed and crated shipping specifications

Volume	0.5m ³
Gross weight	70Kg

Requirements



Cold water supply

Scale



Ordering specification

Demonstration Infiltration Apparatus comprising:

- ▶ Three graduated perspex cylinders, resting on a permeable support screen, into which soil samples are placed
- ▶ Complete apparatus is supported by a metal stand
- ▶ Can be bench mounted
- ▶ Complete with instruction manual

Ordering codes

- ▶ FEL5

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Issue: 2
URL: <http://www.armfield.co.uk/fel5>

Applications
ChE IP

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