



# armfield

## SOIL/WATER MODEL TANK

### FEL2

Provisional

*For laboratory scale  
investigations of surface  
irrigation and related systems*

### DESCRIPTION

The Armfield apparatus consists of a narrow transparent fronted tank which may be partially filled with any soil type. It is supported on a bench mounted frame. The equipment is self contained with a sump tank, pump and flowmeter fitted behind the tank. Water may be discharged along the soil surface or directed to twin drip nozzles to demonstrate trickle irrigation. Measurement of rates of water penetration into the soil is aided by a grid on the tank front. Removable end plates allow soil samples to be changed quickly and easily.

### SERVICES REQUIRED

Cold water supply

Electrical supply:

FEL2-A: 220-240V/1Ph/50Hz

FEL2-B: 120V/1Ph/60Hz

### INSTRUCTIONAL CAPABILITIES

As a result of using this equipment students will be able to:-

- understand surface and sub-surface effects of surface water application.
- understand optimum irrigation application rates to maximise infiltration and minimise surface run-off.
- visualise the drainage systems.

### ORDERING SPECIFICATION

*Soil/water model tank comprising:  
Bench mounted narrow sand tank  
1000mm x 25mm x 450mm (L x W x D),  
with one large side formed from a sheet  
of transparent material; metal frame  
supporting sump tank from which water is  
pumped via a flowmeter to the soil surface;  
flood and drip surface outlets (two can be  
used together by fitting a Y-connector);  
overflow system to remove surface water  
to sump; complete with user instructions  
manual.*

### OVERALL DIMENSIONS

Height: 0.75m

Width: 1.1m

Depth: 0.5m

### SHIPPING SPECIFICATION

Volume: 0.9m<sup>3</sup>

Gross weight: 130kg

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