



armfield

RAINFALL SIMULATOR

FEL3

Provisional

*For use in simulated soil erosion
and stabilisation studies*

DESCRIPTION

The Armfield rainfall simulator consists of a metal frame that supports the spray head assembly. The unit may be placed directly on the ground for field studies or used with its accessory tray for laboratory experiments. In use, water is pumped from the holding tank via a control valve to the spray nozzle. Water from the spray nozzle is interrupted by a horizontal rotating disc driven by a variable speed motor. Adjustable width apertures in the disc allow some water to pass and the remainder is recirculated via the tank. For use in field or laboratory electrical and water supplies are required.

SERVICES REQUIRED

Cold water supply

Electrical supply:

FEL3-A: 220-240V/1Ph/50Hz

FEL3-B: 120V/1Ph/60Hz

INSTRUCTIONAL CAPABILITIES

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

- investigate the relationship between rainfall intensity and soil erosion
- investigate the nature of soil erosion potential on different soil types
- investigate the methods by which soil erosion may be prevented

ORDERING SPECIFICATION

Rainfall simulator comprising: spray head assembly supported by metal stand; storage tank from which water is pumped to spray head via flow meter and control valve; small square test plots: field test plots: tilting stand for test plots: sample vessels: rain gauges: complete with user instructions and manual.

OVERALL DIMENSIONS

Height: 2.7m
Width: 2.65m
Depth: 1.6m

SHIPPING SPECIFICATION

Volume: 3.9m³
Gross weight: 576kg

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