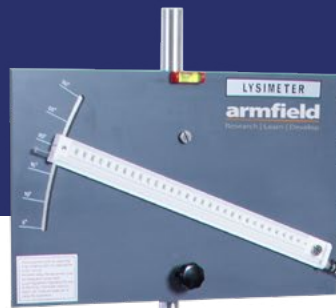


The Armfield FEL6 lysimeter consists of three 300mm diameter containers in which a variety of crop types can be grown in any soil type.

Each container can then in turn be placed on a hydraulically mounted plate, which is used to monitor system weight changes arising from evapotranspiration, precipitation and drainage.

Despite its simplicity, the apparatus has a high degree of sensitivity and may be used for student project work as well as for demonstration purposes.



FEL6 - Bubble level

**Requirements**

**Scale**



Cold water supply

**Experimental content**

- ▶ Study of the evapotranspiration measurement by use of a lysimeter
- ▶ Study of a lysimeter operation
- ▶ Determine lysimeter sensitivity to gains and losses in weight at different manometer angles and to relate this to gains or losses in water
- ▶ Demonstrate the components of the soil-plant-water system using the lysimeter
- ▶ Measuring the variations of water loss or gain from the soil and plant due to evapotranspiration, precipitation and drainage processes
- ▶ Demonstrate the principles of relationships between reference crop evapotranspiration, maximum and actual evapotranspiration
- ▶ Determination of the plants water usage
- ▶ Determine changes in diurnal evapotranspiration as measured by the lysimeter

**Overall dimensions**

Length	0.48m
Width	0.43m
Height	1.66m

**Packed and crated shipping specifications**

Volume	0.6m <sup>3</sup>
Gross weight	100Kg



FEL6 - Accessories and manual

**Ordering specification**

**Demonstration Lysimeter Apparatus comprising:**

- ▶ Base and inner disc to support soil filled container and plant, resting on a hydraulic sensing device located in the base that is connected to a graduated water column mounted above the lysimeter
- ▶ Complete with spare plant containers
- ▶ Complete with instruction manual

**Ordering codes**

- ▶ FEL6

UK office - email: [sales@armfield.co.uk](mailto:sales@armfield.co.uk) tel: +44 (0) 1425 478781 (for ROW)  
USA office - email: [info@armfield.inc](mailto:info@armfield.inc) tel: +1 (609) 208-2800 (USA only)

Issue: 2  
URL: <http://www.armfield.co.uk/fel6>

Applications  
**ChE IP**

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