UNIVERSAL PERMEABILITY AZA0877

The AZA0877 Universal Permeability Apparatus is a precision laboratory instrument designed for the determination of the coefficient of permeability (hydraulic conductivity) of soils under controlled conditions.

This versatile system supports both Constant Head and Falling Head test methods, enabling accurate testing across a wide spectrum of soil types ranging from coarse-grained (sands, gravels) to fine-grained (silts, clays).

The apparatus is engineered for high accuracy, repeatability, and durability, making it an essential solution for geotechnical laboratories, academic institutions, and construction quality control applications.

Key Features

- Dual functionality: Constant Head & Falling Head tests
- Suitable for all soil permeability ranges
- Accurate determination of hydraulic conductivity
- Multiple glass standpipes for extended measurement range
- Heavy-duty, corrosion-resistant construction
- Stable and rigid laboratory base frame
- Easy assembly and operation
- Minimal maintenance requirements
- Designed in accordance with IS 2720 (Part XVII)

AZA LAB UNIVERSE

TECHNICAL SPECIFICATION

Parameter	Specification
Model Number	AZA0877
Apparatus Type	Universal Soil Permeability Apparatus
Test Methods	Constant Head & Falling Head
Application Range	Coarse and fine-grained soils
Permeameter Cell (Mould)	Suitable for standard soil specimens up to approx. 100 mm diameter
Standpipe System	Multiple interchangeable glass standpipes
Standpipe Diameters	6 mm, 10 mm, 20 mm, 25 mm, 40 mm, 50 mm, 60 mm, 70 mm, 75 mm
Measurement Scale	Graduated scale for precise water level readings
Flow Control System	Top & bottom porous stones for uniform water distribution
Tubing	Flexible, leak-proof connecting tubes

TECHNICAL SPECIFICATION

Parameter	Specification
Base Frame	Rigid, stable laboratory mounting structure
Water Supply	External constant head water supply required
Material of Construction	Corrosion-resistant materials
Test Capability	Determination of coefficient of permeability
Accuracy	High repeatability under controlled test conditions
Assembly	Modular, user-friendly design
Maintenance	Low maintenance
Compliance	IS 2720 (Part XVII)
Standards Compatibility	Compatible with relevant international standards