

Fluidization Bed Flow Apparatus (EDC-FM-119)

EXPERIMENTAL DATA:

- Basics of the fluidization of majority layers.
- Confirmation of Carman-Kozeny equation.
- Thought and judgment of the fluidization process in water and air.
- Ergun equation verification.
- Compulsion of the height of the fluidized bed on the flow velocity.



DESCRIPTION:

Fluidization is a process similar to liquefaction whereby a granular material is converted from a static solid-like state to a dynamic fluid-like state. This process occurs when a fluid is passed up through the granular material.

SPECIFICATIONS:

- Study of the transformation from fixed bed to fluidized bed.
- Tanks: Removeable and with scale for measurement.
- Water supply using storage tank.
- Compressed air supply via compressed air accumulator.
- Air adjustable valve.
- Flow rate adjustable.
- Measurement of pressure loss using manometer.

TECHNICAL DATA:

- Tanks: 2 Qty, 3 Ltr each.
- Manometer: 300mm.
- Pump for water circulation: 6LPM.
- Compressor for air.
- Electric Supply: 230V AC 50Hz, 1

DIMENSIONS AND WEIGHT:

- L x W x H (mm): 700 X 500 X 1000 approx.
- Weight: 75 kg approx.

SCOPE OF DELIVERY:

- 1 x EDC-FM-119.
- 1 x Instructional Manual.

