

Product Name :

Elutriator

Product Code :

ALABS-A155-017

**Description :****Elutriator**

An Elutriator is vertical tube through which a fluid passes upwardly at a specific velocity while a solid mixture, whose separation is desired, is fed into the top of the column. The large particles, which settle at a velocity higher than that of the rising fluid, are collected at the bottom of the column, and the smaller particles are carried out of the top of the column with the fluid. Several columns of different diameters in series may be used to bring about a further separation

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different diameters in series may be used to bring about a further separation

Experimentation:

- To determine the velocity of water for the separation of equal sized particles of different densities.
- To determine the velocity of water for separating the given solid mixture of the same density on the basis of size

Utilities Required :

- Material for Feed.
- Water Supply and Drain.
- Electric Supply : Single phase, 220 V AC, 0.5 kW.
- Dryer
- Weighing Balance.
- Floor Area 1.5 m x 1 m.

Technical Details :

Material Stainless Steel, 2 Nos. of Tubes of Length 500 mm each with successive Dia. 70mm, 96mm.

Water Feed Stainless Steel, Capacity 60 Ltrs.

PEMP.

Flow Measurement

Scale PVC (2 Nos) individual tube.

Fine Dust Collector

Collecting Tray (2 Nos), suitable capacity.

Control panel Comprises of:

Standard make On/Off switch, Mains Indicator etc.

Instruction Manual Instruction manual will be provided along with the Apparatus

A good quality painted rigid MS Structure is provided to support all the parts.



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