

Product Name :
Elutriator

Product Code :
NLAB-TECHNICALAB31006



Description :

Elutriator

Technical Specification :

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

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

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:

Elutriator Tubes Material Stainless Steel, 2 Nos. of Tubes of Length 500 mm

each with successive Dia. 70mm, 96mm.

Water Feed Tank: Material Stainless Steel, Capacity 60 Ltrs.

Pump: FHP.

Flow Measurement: Rotameter

Solid Collectors (2 Nos.): Material PVC fixed to individual tube.

Fine Dust Collector: Nylon cloth

Collecting Tray (2 Nos.): Material Stainless Steel, suitable capacity.

Naugralabequipments

Website: www.naugralabequipments.com, **Email:** sales@naugralabequipments.com

Address: 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India. **Phone:** +91-9896600003