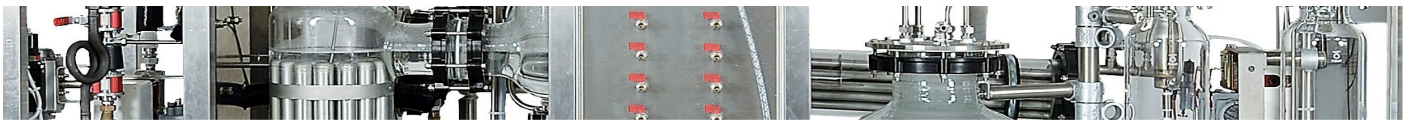

Solid-liquid fluidisation

Référence : FLS/1000

Study the fluidisation with water of a bed of glass beads

GENERAL SPECIFICATIONS

- Polyethylene 100 L tank with removable lid and draining valve.
- Stainless steel centrifugal pump.
- ND 100 PVC column, length 1 m, packed with Ø 6 mm glass beads, SS support grid, quick dismantling, two pressure sets.
- Bed support by SS grid.
- Weir enabling water flowing outlet towards the tank 1, retention grid.
- Piezometric tube with stainless steel 1 m graduated ruler, a hand pump for the pressure setting, draining valve and quick fitting connections.
- ND 50 PVC column, length 1 m, packed with Ø 3 mm glass beads, SS support grid, quick dismantling, two pressure sets.

Instruments

- Two flowmeters

Dim : 110 x 80 x 180 cm – 150 kg

Categories: Educational Engineering Fluidization Fluids dynamics

Reference: FLS/1000

DESCRIPTION

Study fluidisation

Analyse pressure drops as a function of water flow rate

Determine the minimum fluidisation speed:

experimentall

from empirical equations

Study the expansion of the bed

Study the influence of parameters on fluidisation

Column diameter

Glass bead diameter and density

Fluid flow rate

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