



SAHARANPUR TESTING INSTRUMENTS PVT LTD

Manufacturer & Suppliers of All Kind of Pulp, Paper, Board, Tissue,
Packaging, Converting & General Testing Instrument for Laboratory

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Laboratory Flotation Cell



Usage : to study the de-inking effect of printed recycled paper by flotation method in laboratory.

Definition : FLOTATION is a physio-chemical process of separating materials. It is based on the phenomenon that separation is achieved by influencing the wettability with water of the particles to be separated. The water repellency of the surface of the particles to be separated is achieved by the addition of special heteropolar chemicals, which deposit on the surface of the particles at the same time the treated particles can deposit on air bubbles that are introduced into the suspension. As a result of buoyancy of the air bubbles the adhering particles are conveyed to the surface of the suspension to concentrate as a froth, which can be removed.

Device Description : The laboratory flotation cell consists of an acrylic glass vessel for 25 liter suspension with 300 mm diameter and a drainage pipe. On top of the vessel there is an automatic foam removal system, driven by a motor with magnetic coupling. On the bottom of the tank there is a self-suction aeration rotor. The air for the aeration rotor is regulated via an air flow meter. The air is guided by a baffle plate.

Test Description : The foam outlet is covered and 25 liter of the suspension are poured into the container. The cover is removed and the motor on top is in place. The chemical suspensions are added to the suspension and the motor is turned on. Air bubbles from the aeration rotor create a foam, which is taken away by the foam paddles, guided to the central foam outlet and collected in a basket.

Specifications :

Container capacity:	25 Liter with automatic foam removal
Speed of foam paddle	10 revolutions per minute
Drive	DC variable drive
Air Flow Meter (optional)	-
Applications	Upto 2% stock consistency
Power Supply	Electric Motor 3 Phase 440V, AC.

Delivery Content :

Consumables :

Service and Startup :