SAHARANPUR TESTING INSTRUMENTS PVT LTD

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

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Fiber Classifier

Classifier screens with different mesh sizes

Usage: for determining the fibre length of pulp by classification.

Standardization: TAPPI and SCAN

Device Description : the Baure Mcnett fibre classifier consists of up to 5 narrow tanks 255mm deep , 127 mm wide and 320mm high, mounted in a cascaded arrangement , with screens of 335cm2 mounted on the flat side . A vertical , cylindrical agitator with short paddles rotates at 580rpm near one semi circular end of each tank . this causes suspension to flow horizontally across the screen and circulate around the tank . an overflow weir is provided at outgoing side of each screen , and a short pipe leads to the next tank with a finer screen at a slightly lower level , or from the last tank to drain away . A flow regulator supplies water at the rate of 11.35 l/m to the first tank. The motion of the water keeps the water from settling and presents them repeatedly to the screens through which they will pass if the length is less than twice the screen opening. The primary unit has an inlet funnel with an overflow and the nozzle for a constant water flow rate. Fractionating unit is completely self contained having its own electric motor for the rotor and is made of non-corrosive material. Fibre collection box with rapid locking device, support wire and suction connection. Interchangeable screens are available with wire of 4, 6, 8, 10, 14, 20, 30, 50, 100 and 200 standard mesh. The screen frames are clamped spring loaded self clamping system. Classifier gives a very low spread in the results with a variation coefficient of less than 1%.

Test Description: With the screens correctly mounted in the tanks press the start button to start the water flow into thje top tank . as soon as the lowest tank starts overflowing , press the stop button again and simultaneously start to pour the prepared sample of 3,333ml with 24 grams of moisture free pulp during the period of 18second in the top tank. Subsequently the flow at the rate of 11,355 l/m into the top tank, the stirrers and the timing of 20minutes are started automatically . A green light shows that the classification is in the process . during this time the drainage cups are furnished with weighed and marked filter papers.

After the test (20 minutes acc to TAPPI and 15 minutes according to SCAN) the water flux is stopped automatically and green light goes out . the stirrers continue running for another 2 minutes until there is no more water to drain away from the lowest tank . now the drain plug and tap below the cup of the first tank is opened and the pump is turned on to allow the contents to drain into the cup. After the tank has been drained the screen and the tank is flushed carefully with the provided hose. When all the tanks are emptied in this way the pads are taken out of the cups and folded in the middle. As much water as possible is removed using a wringer , a blotter or towel . before weighing to within to 0.01 g the pads are dried in an oven at 100*c to constant weight

Specifications:

Flow speed	10 litre/min OR 11.4 liter/min.
Pulp	10 & 20g (oven dried)
Required time for screening	20 min
Rpm:	560
Power Supply	Motor 0.25 HP AC 3 Phase, 60 W per unit

Delivery Content:

Consumables:

Service and Startup: