Product name:	Product code:
Flocculation Test Unit	Environmental0004



Description

Flocculation Test Unit

Technical specification

The paddle shafts are made of stainless steel to resist corrosion. Paddle speed is accurately maintained by electronic feedback control. A digital display clearly indicates the speed which is fully variable. Alternatively, the use of two adjustable presets allows repetition of pre-selected speeds.

A digital timer can be set to count down from 1 to 99 minutes. After count down the paddles stop and an alert sounds.

- Dimensions of paddle blade: 50mm x 15mm
- Stirrer speed range: 25-240rpm (approx.)
- Sample volume: 1 litre (each vessel)

Flocculation Test Unit

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Analysis of a water or waste preparatory to the design of a treatment sequence often involves coagulation and flocculation tests, ‘Jar tests’, in the laboratory.

Jar tests are routinely used for the control of plant operations and are performed by treatment plant operators.

The tests serve to indicate the optimum chemical dosages for removal of turbidity and colour, including such parameters as pH adjustment, and the supplemental use of activated carbon. Jar tests, furthermore, yield a wealth of qualitative information on the rate of agglomeration as a function of energy input (paddle speed), the settleability of the floc formed, the clarity of the supernatant water (which might be related to the subsequent length of filter run).

Coagulation and flocculation tests may be used, in conjunction with other tests, to study basic processes including, for example, the kinetics of reaction and the removal of trace constituents from aqueous solution.

A bench-mounted framework incorporates facilities for six tests to be carried out simultaneously. The glass flocculating vessels stand on a translucent base which is illuminated from below. Each flocculating vessel incorporates a stirrer paddle driven by a variable speed drive. The paddle assemblies are easily withdrawn for removal and cleaning of the test vessels.