

## Flocculators (Leaching testing)

**VELP®  
SCIENTIFICA**



**JLT6 Rowe Code IF1170**



**JLT4 Rowe Code IF1155**



**Rowe Code TBA**



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Models JLT4 and JLT6 are microprocessor controlled and combine simplicity of use with ergonomic design and reproducibility of operations. The front control panel is slightly bent for easier setting and visualization of set parameters.

The rotation speed, settable from 10 to 300 rpm with a resolution of 1 rpm, is kept constant by continuous alignment to the set value.

The residual stirring time can be displayed on two different scales: hours or minutes.

The equipment can be used for two different analytical procedures:

- 1) Jar Test for the optimization of coagulants addition to flocculate suspended matter in water treatment plants.
- 2) Leaching Test for heavy metals, by diluted acetic acid or carbon dioxide saturated water, on solid wastes to be sent to dump.

### *About Jar Testing*

*In primary and waste waters treatments, the choice and dosage of chemical coagulants aimed at removing suspended matter and pollutants are derived from the results of laboratory evaluations by the so called jar test.*

*Multiple stirrers, with reproducible speed, allow simulation of standard testing conditions, an essential requirement for reliable results. Considering the water's variability, the test must be repeated with a frequency tied to specific situations.*

The FC4S and FC6S flocculators have a metal structure coated with epoxy paint specially formulated to make the instruments highly resistant to chemical and mechanical aggression, and corrosion in general. The sample being examined can be backlit using a special switch found on the front panel so that reading is easier.

The stainless steel stirring shafts are adjustable in height and are equipped with a self-locking device with clutch.

Motion is transmitted by six direct current gear motors that make it possible to achieve optimum performance and reproducibility, even at low speeds. FC4S and FC6S let you pre-select 9 different speeds for each stirring point using the relative selectors located on the front panel (10 – 15 – 30 – 45 – 60 – 90 – 120 – 150 – 200 rpm).

The FP4 (4-position) portable flocculator was developed for optimum use in the field. It operates with 230 V mains power supply or with 12 DC by connecting it to a normal battery or a car's cigarette lighter. FP4 features a non-skid base so the beakers are kept stable during operation.

It is particularly suitable for Jar Tests for optimizing the dosing of coagulants and polyelectrolytes in proximity of water treatment plants.

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