Essa® FTM101 Flotation Test Machine

Versatile and robust device for the metallurgical laboratory.

Benefits

- Ergonomic and compact design: bench-top installation is comfortable and functional while leaving a small footprint in the laboratory workspace.
- Flexible: impellers, diffusers and cells are interchangeable for different processes. Cells come in a variety of capacities and materials of construction.
- Versatile: flexible for a wide range of testing, including agitation, attrition, scrubbing and blending.
- Precise: variable speed control with digital read-out plus integrated air pressure and volume control with read-out ensures greater accuracy and repeatability.
- Durable: fitted with 304 stainless steel diffuser, urethane impellor and acetal shaft as standard. Cells are polycarbonate - all to minimise corrosion, improve test reliability, reduce contamination and extend the life of the machine.
A dependable machine with diverse testing capabilities

**Versatile applications, robust design.**
The Essa® FTM101 Flotation Test Machine establishes the percentage of reagents in a production flotation cell, as well as performs a variety of metallurgical test work. The unit can perform batch froth, agitation, attrition, scrubbing and blending tests that can be replicated in a production environment. Fitted with corrosion-resistant wetted parts, this bench-top apparatus is a robust, long-lasting machine capable of finer testing accuracy. The apparatus has variable speed control plus integrated air pressure and volume controls. These features come complete with digital read-out as standard. A variety of test cells and corresponding impellers and diffusers are manufactured as extras tailored to typical laboratory requirements.

**Efficient, robust design.**
Built for accuracy, and built to last, this robust apparatus is fitted with a range of durable and anti-corrosive parts. This improves test reliability and reduces contamination. Urethane impellers provide superior abrasion and corrosion resistance. Test cells are fabricated from polycarbonate (with stainless steel available upon request). The bench-top apparatus can be installed easily and quickly. The compact, ergonomic design improves functionality in the laboratory environment.

**Flexible testing capabilities.**
The Essa® FTM101 Flotation Test Machine is easily configured to suit many testing applications. Impellers, shafts, diffusers and cells can be purchased in a range of sizes and materials to create a fully customised testing regime. Cells are manufactured in a variety of capacities, and are interchangeable depending on testing requirements. This ensures the unit can accommodate a wide range of testing, including agitation, attrition, scrubbing and blending.

**Greater precision and duplication.**
The apparatus is fitted with a range of required controls. It has a variable speed control, complete with digital readout of the rotating speed of the impeller. This provides optimum speed regulation. The unit is also supplied with integrated air pressure and volume controls complete with read-out as standard features. These features provide greater accuracy in testing as well as repeatability of results.
Built for accuracy – built to last

Specifications

<table>
<thead>
<tr>
<th>Component</th>
<th>Materials of construction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Shaft</td>
<td>Acetal (standard) 304 stainless steel (upon request)</td>
</tr>
<tr>
<td>Impeller</td>
<td>Urethane</td>
</tr>
<tr>
<td>Diffuser</td>
<td>304 stainless steel</td>
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<td>Cells</td>
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- **Dimensions** (length x width x height): 655 mm x 355 mm x 600 mm
- **Electrical requirements** (single phase): 240 V 50 Hz 0.75 kW
- **Cell capacities**: 0.5 litre, 1.75 litre, 3.5 litre and 5 litre
- **Shipping dimensions** (length x width x height) (approximate): 900 mm x 550 mm x 875 mm
- **Working mass**: 94 kg
- **Shipping mass (approximate)**: 110 kg

**Features**
- Variable speed control with digital readout of the rotating speed of the impeller.
- Parts available in varying sizes and capacities to suit your needs. Flotation cells manufactured in 0.5, 1.75, 3.5 and 5.0 litre capacities.
- Fitted with corrosion-resistant, wetted parts for durability, longevity, and to reduce contamination.
- Integrated air pressure and volume controls with read-out.
- Easy bench-top installation for rapid mobilisation.
- Drive motor is 0.75 kW, with single-phase power supply connection.
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