

No. 2077

Fenchel expansion meter

This machine is designed to measure expansion of a paper sheet or paperboard sheet by immersing the paper in water. The specimen is fixed with the upper and lower clamps. From the upper clamp, a weight is suspended via a pulley, with the thread linked to a dial gauge. With this weight, a certain amount of tension is given to the specimen that is in the water for a certain span of time. Expansion of the specimen is indicated on the gauge.

There are two pipes on the upper lid, enabling to monitor dimensional stability of a specimen with changing relative humidity, under the circulation of the air of a constant humidity in the container.

Specimen: 15 mm wide, 150 mm long and span 100 mm

Maximum expansion: ± 10 mm, 1/100 mm accuracy

Measurement gauge: digital type

Weights: 5, 10, 20, 50, 100 g

Immersion time: 5 minutes for paper, 10 minutes for paperboard

Recorder (optional): able to record changes in expansion.

Referential standards: J. TAPPI No. 27-2000, ISO 5635

Power source: 100/110 VAC 50/60 Hz 0.5A

Outer dimensions: 250×310×890 mm

Instrument weight: 14 kg



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