

KRK KUMAGAI RIKI KOGYO

Fenchel Expansion Meter

Model No. 2077

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.



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| Specimen | 15mm wide, 150mm long and span 100mm |
| Maximum Expansion | ±10mm, 1/100mm accuracy |
| Measurement Gauge | digital type |
| Weights | 5, 10, 20, 50, 100g |
| Immersion Time | 5 min. for paper, 10 min. for paperboard |
| Recorder | able to record changes in expansion (optional) |
| Referential Standards | J. TAPI No. 27-2000, ISO 5635 |
| Outer Dimentions | 250×310×890mm |
| Instrument Weight | 14kg |

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