

## FREENESS TESTER "Schopper-Riegler type"

To determine the refining degree and draining velocity of paper fibres

According norms: ISO 5267/1 - SCAN C 19/M3 - NF Q 50-003 - BS 6035/1...



- ❑ Easy to use and clean
- ❑ Robust equipment in stainless steel
- ❑ Ergonomic

## Definition

The Schopper-Riegler test quickly provides an idea of the refining degree relating to the speed of the drainage of the diluted paper suspension.

The speed of drainage is related to the surface conditions and the expansion of fibres and provides a useful indicator, of the amount of mechanical treatment (refining) of the cellulose paste.

This method is applicable to all types of pastes in watery suspension, except for extremely short fibre pastes.

The scale of measurement in degrees SR.:

- A drainage of **1000 ml** corresponds to **0 °SR**
- A drainage of **0 ml** corresponds to **100 °SR**
- A drainage of each **10 ml** of water corresponds to **1 °SR**.

## General description:

This version of the refining degree equipment is similar to the one of the conventional model, but is more comfortable in use, since the lowering and rising of the sealing cone are done by means of a pneumatic actuator activated by two lateral buttons (safety feature).

## Description of the test

- Clean the funnel and the suspension reservoir with care
- Place the reservoir on top of the funnel.
- Adjust the temperature of the equipment by mixing fresh water of 20+/- 0,5° C.
- Close the outlet and place the cylinders in line with the outlets.
- Place the SR cylinder below the outlet on the side. Prepare 1000 ml +/- 5 ml homogeneous suspension of pasta (2 g).
- Poor the suspension quickly but with care in the reservoir.
- Lower the sealing cone five seconds after the suspension has been entered.
- When the water drain stops in the lateral outlet, the measurement for **°SR** can be taken of the graduated cylinder.

### CONNECTION:

Compressed Air: 3 Bar for lowering the cone

### WEIGHT & DIMENSIONS:

Dimensions: 400 x 300 x 850 mm (W x D x H)

Packaging: 500 x 400 x 1050 mm (W x D x H)

Weight Net/Gross: 38 Kg / 59 Kg

### CONTENT:

> SR-1 model FREENESS TESTER "SR" Type

> 2 graduated cylinders

> 1 Spare part metallic strainer

> 1 Tool for changing the strainer

