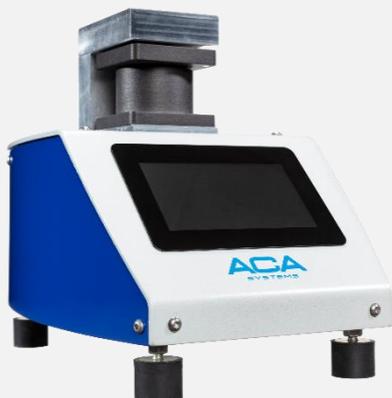


# ACA Flow WR™

## Coating color water retention analyzer



ACA Flow WR is a modern and user-friendly analyzer for coating color water retention. The device is equipped with integrated touch screen, adjustable measurement pressure and time. A modern design with clever sample holder attachment and release makes the measurement procedure fast and easy.

### Overview

The dewatering of the coating color is an important aspect of an industrial coating process. Many quality and runnability problems originate from interaction between the base paper and the water phase of the coating color. The method of measuring coating color dewatering properties ie. water retention has been defined in 90's and is well described in TAPPI T-701. The method is based on pressure filtration and involves the gravimetric determination of the aqueous phase penetrating through a filter into a paper.

ACA Flow WR is a modern and user-friendly analyzer for coating color water retention analysis. It measures the water retention according to TAPPI T-701 and is very effective tool for coating color quality control and development.

### Benefits

- ACA Flow WR is a modern instrument with integrated touch screen
- Adjustable measurement pressure and time.
- Fast and reliable measurement, according to well-known TAPPI method
- Clever sample assembly, optimized design and small size makes the device very user-friendly
- High quality travel case and easy installation environment makes the device easy to move
- Good availability of spares and consumables

### Applications and users

- Coated paper and board manufacturers
- Coated packaging material manufactures
- Coating chemicals and raw material suppliers
- Water based barrier coatings
- Dewatering of micro/nanofibrillated cellulose (MNFC)
- Coating and related laboratories at schools, institutes, and research centers

### Measurement procedure

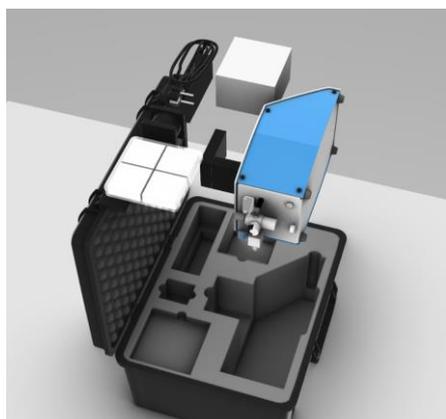
1. Weight the base or blotter paper on analytical scale and insert it to the base plate.
2. Add the filter paper glossy side upwards on the top of the paper.
3. Insert sample holder upper body on the base plate.
4. Start the measurement from touch screen button Start
5. When test is over the cylinder will open automatically
6. Remove the sample assembly, weight the base paper and calculate the WR value
7. Wash the sample assembly and store in dry place.



Sample assembly

## Technical data and specifications of ACA Flow WR

<b>Delivery package</b>	ACA Flow WR main unit Sample cylinder Testing mat with magnetics AC Power supply Filter papers (200 pieces) Blotter papers (200 pieces) Traveler case
<b>Measurement</b>	
Measurement standard	Tappi T-701
Measurement principle	Gravimetric pressure filtration
Measurement time	0 – 10 000 sec (standard 90 sec)
Measurement pressure	0 – 4 bar (standard 2 bar)
Measurement area	8 cm <sup>2</sup>
Sample volume	10 ml
<b>Cell pressure (adjustable)</b>	0 -2000 p (0-2 bar)
<b>Electrical connection</b>	110 -230V, European style inlet plug
<b>Pneumatic inlet</b>	4-6 bar, dry air
<b>Display</b>	Capacitive touch screen
<b>Weight</b>	6 kg (10 kg with traveller case)
<b>Dimensions (l,h,w)</b>	300 x 250 x 170 mm
<b>Dimensions with the traveller case</b>	487 x 400 x 267 mm



Traveller case