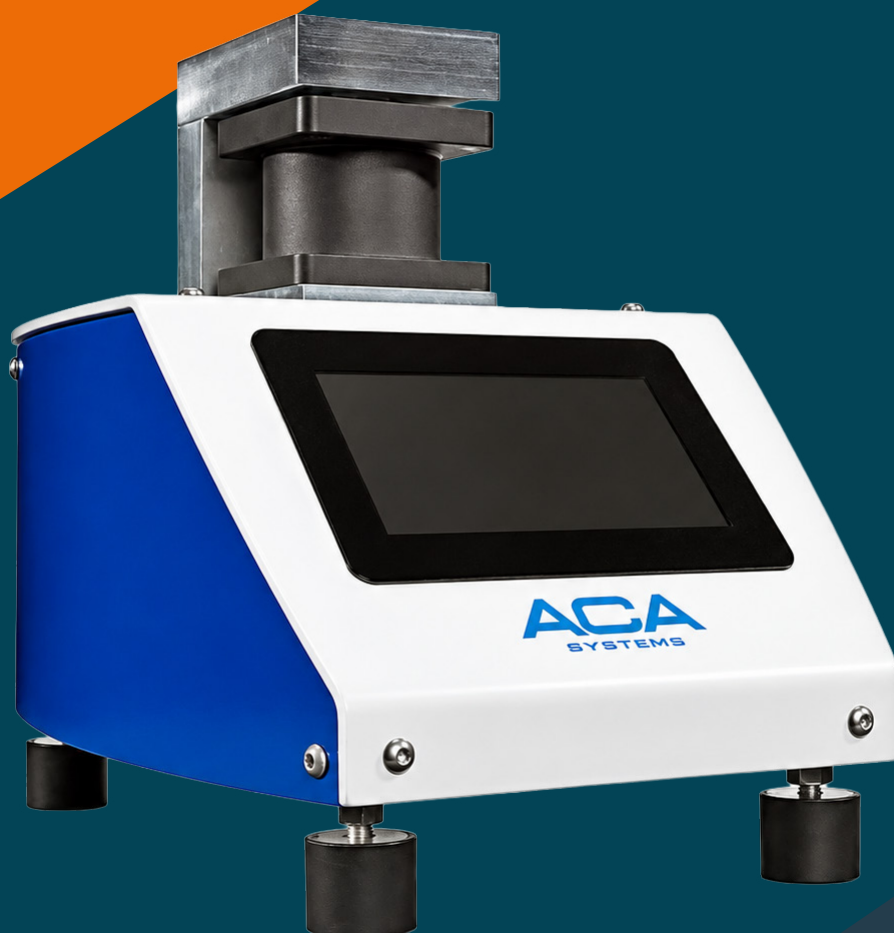




Coating Color Water Retention Analyzer ACA Flow WR

Coating Color Water Retention Analyzer ACA Flow WR

The ACA Flow WR is a bench analyzer for coating color water retention. Its main function is to measure how much water a coating releases into the base paper under a set pressure over a set time, giving you the data you need to control coating and base paper interaction.

Get that balance wrong and you pay for it either way. Too much water absorbed into the base leads to quality and runnability defects, too little leads to drying problems. The method is pressure filtration under externally applied air pressure, to TAPPI T-701.

Use With the ACA AX-100:

Used alongside the Technidyne ACA AX-100 capillary viscometer, Flow WR helps you manage rheology under production conditions. Between them you get the high shear viscosity behavior that governs runnability, and the dewatering behavior that governs coating and base paper interaction.

Technical Specification:

Applications:	Coating Testing, Corrugated Testing, Materials Testing, Paper Testing, Paperboard Testing
Materials:	Cardboard, Corrugated Paper, Non-wovens, Paints and Coatings, Paper, Paperboard
Measurement principle:	Pressure filtration of coatings under externally applied air pressure over a set time period
Standards:	TAPPI T-701
Cell pressure (adjustable):	0 to 1.2 bar
Display:	Capacitive touch screen
Power:	110 to 230 V, European style inlet plug
Pneumatic inlet:	4 to 6 bar, dry air
Dimensions:	Instrument 300 x 250 x 170 mm With traveler case 487 x 400 x 267 mm
Weight:	10 kg with traveler case
SKU:	ACAFWR0010

Standard Features:

- Pressure filtration of coatings under externally applied air pressure over a set time period
- Conforms to TAPPI T-701 for coating color water retention
- Adjustable cell pressure, 0 to 1.2 bar
- Adjustable measurement time range
- Integrated capacitive touch screen for setting pressure and time
- Semi-automatic operation, straightforward for lab and mill staff to run
- Sample holder attaches and releases quickly, keeping the procedure fast and repeatable
- Compact design at 300 x 250 x 170 mm
- Supplied in a traveler case, 10 kg complete

Supplied With:

- ACA Flow WR main unit
- Sample cylinder
- Testing mat with magnetics
- AC power supply
- Filter papers and blotter papers
- Traveler case

Site and Installation Requirements:

- Power: 110 to 230 V, European style inlet plug
- Air supply: 4 to 6 bar, dry air
- Bench space: 300 x 250 x 170 mm instrument footprint

Disclaimer

The information contained in this document is liable to modification from time to time in the light of experience and our policy of continuous product development. Check the Industrial Physics website for the latest version.

Benefits:

- **Water retention is reported as the water released to the base paper in gsm, under the pressure and time you set. Rheology additives have a strong influence on the value, so Flow WR is a direct way to screen thickeners and other additives during recipe work rather than inferring their effect from viscosity alone.**
- **Water retention sits directly upstream of coating quality, so controlling it supports better coverage and fewer runnability defects at the coater. One reported outcome is a producer determining the critical solids level in coated paper production. Users also report that the value shows immediately when something has changed in a standard recipe.**
- **When coating quality drifts and the cause is unclear, water retention tells you whether the coating is releasing too much or too little water into the base, which separates a coating and base paper interaction problem from a mechanical or drying one. You can also use it to characterize base paper properties and starch pick up.**

Contact Details

web. www.industrialphysics.com

email. info@industrialphysics.com