



PulpEye DYNAMIC DRAINAGE ANALYZER

**Powerful, precise and adaptable
solution for drainage analysis**

ANDRITZ

Adaptable solution for drainage analysis

The fifth generation of the Dynamic Drainage Analyzer, DDA, was developed following close cooperation with DDA users. DDA 5 is based on the proven technology of DDA 4 with over 95 units sold worldwide.

The unique vacuum drainage simulates conditions on paper machines, and the shear can be precisely controlled to simulate pumps and other equipment. DDA has a turbidity sensor, which is used to automatically display retention values. Drainage speed, initial drainage and temperature readings are presented for chosen time intervals. Users will also benefit from increased productivity, as the equipment is automatically cleaned after each analysis.

NEW FEATURES

- Retention measured with the new turbidity sensor
- Drainage rate
- Initial drainage
- Temperature readings

INCREASED PRODUCTIVITY

- Quick results and easy operation
- Improved easy-to-use chemical dosage unit
- Automatic cleaning for increased productivity

INCREASED SENSITIVITY

- Better accuracy and reduced freeness

FLEXIBILITY & CONTROL

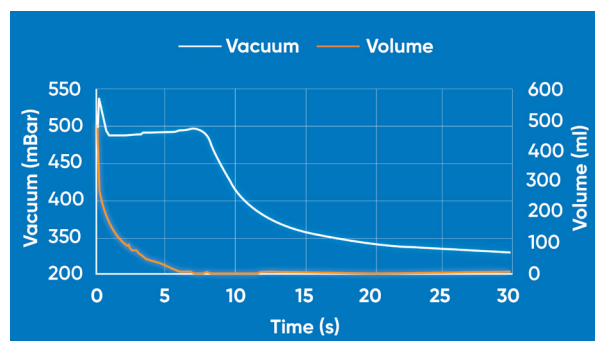
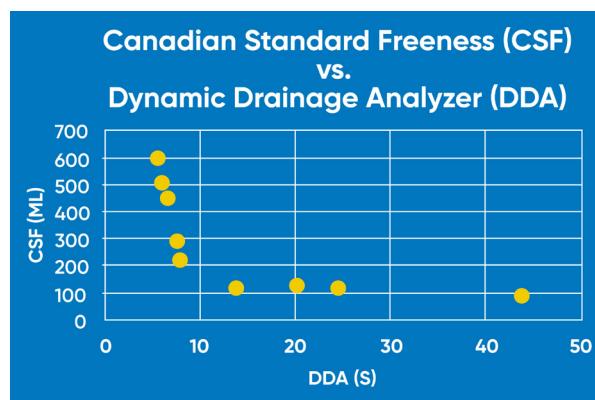
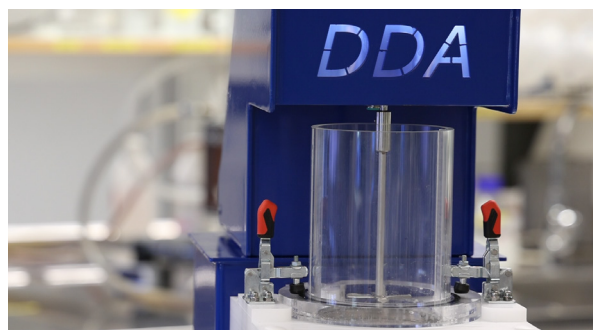
- New user-friendly design and easy-to-use interface
- Compact and light design for mobility
- Easy to control experiment conditions

VERSATILE

- Interchangeable wire cloths allow samples to be run with very different characteristics
- Tailor-made wire cloths are available on request

USERS

- Paper makers, chemical manufacturers and R&D companies
- The effects of different pulp mixtures, degrees of refining, additions of chemicals and fillers on drainage conditions can be studied



OPERATION

The pulp sample is prepared in the reaction vessel and drained through a screen using vacuum suction, simulating real paper machine conditions. The formed sheet and the white water extracted are easily accessible for further analysis.

FUNCTIONS AND FEATURES

- Vacuum drainage
- Permeability
- Variable vacuum
- Drainage rate (optional) – for initial drainage or drainage rate (volume vs. time)
- Automatic cleaning (optional)
- Turbidity-based retention monitoring (optional)
- Temperature

OUTPUT

- Drainage time – vacuum vs. time
- Drainage speed – volume vs. time (optional)
- Permeability – final vacuum reading
- Retention – turbidity-based (optional)
- Temperature
- Up to 500 values/second

VACUUM RANGE

- 800 mBar (-600 mmHg) to 0 mBar*
- *Inlet pressure ≥ 5 bar

STIRRER

- Electric stirrer (0-2000 rpm)

DRAINAGE TIME

- Drainage times of 1 s and above

SHEET DIAMETER

- 100 mm

REACTION VESSEL VOLUME

- 1,200 ml (max. sample volume: 1,000 ml)

CHEMICAL DOSAGE UNITS

- 4 automatic dosage units (optional)
- Standard plastic syringes can be used (max. diameter = 17 mm)

WIRE CLOTH OPTIONS

- 8 standard sizes: 0.500, 0.350, 0.315, 0.250*
*0.150, 0.075, 0.045 and 0.025 mm
- Tailor-made wire cloths upon request

POWER SUPPLY

- 110-240 VAC, 50-60 HZ

COMPRESSED AIR SUPPLY

- 4-10 bar (dry, oil-free air)
- Air consumption ~60 l/min

COMMUNICATION

- Ethernet communication to PC

COMPUTER

- PC with at least Windows XP. 1 GHz or faster, 32-bit (x86) or 64-bit (x64) processor, 1 GB RAM, 20 GB available HDD space, network card 100 Mbit

DIMENSIONS

- Length: 37 cm (+20 cm free space for connectors at rear); Width: 25 cm; Height: 63 cm; Weight: 22 kg





CONTACT US FOR MORE INFORMATION

Advancing autonomous operations is our vision and is becoming an integral part of industrial processes. ANDRITZ is at the forefront of this transformation, leveraging digital innovations along with deep operational and technical expertise to improve process efficiency, quality management, and production reliability and availability.

We focus on developing autonomous pulp mills and process optimization, to support efficient and sustainable operations by combining automation, electrification, intelligent instrumentation, and digitalization to create measurable value throughout the full life cycle and the entire value stream.

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