

## KASON-AT20 Fully Automatic Aperture Tester



### Scope of application :

The electronic fully automatic pore size tester, also known as a bubbling test bench, is used to test the maximum and average pore size of materials such as filter paper , fiberglass separators , battery membranes, nylon cloth, asbestos paper, and various sintered materials . An optional filter element test chamber can be used to test the maximum and average pore size of filter elements.

### Meets the standards :

GB/T2679.14-1996 Determination of maximum pore size of filter paper and paperboard ;

GB/T1967-1996 Test method for pore diameter of porous ceramics ; SJT 10171.10-1991

Determination of maximum pore diameter of diaphragms by bubble test method ;

### Instrument characteristics :

1. The instrument uses a 304 stainless steel test chamber , and the stainless steel test platform is resistant to rust and corrosion even after long-term use ;
2. Controlled by a 7-inch color LCD touchscreen and dedicated measurement and control software, it is easy to operate and has good human-computer interaction ;

3. The instrument has a temperature compensation function, automatically senses the liquid temperature, and automatically retrieves the liquid tension coefficient to calculate the pore size ;
4. The instrument is equipped with a mini printer, which can print test results at any time ;
5. The instrument has a built-in pressure calibration port , facilitating third-party calibration ;
6. High-precision pressure sensor, capable of accurately measuring real-time pressure;
7. The flow meter has a display for easy flow adjustment ;
8. The instrument is equipped with an LED light source for easy and clear observation of the first precipitated bubble;
9. Equipped with a support mesh with an orifice plate, it avoids the influence of test gas on test results, and at the same time increases the diameter of the test sample for more accurate testing ;

**Technical parameters :**

1. Applicable liquids for the test: Isopropanol and industrial ethanol are recommended ( liquid surface tension is involved in the calculation of results, and unknown liquids should not be added arbitrarily ).
2. Sample type: flat tension ;
3. Display method: Touchscreen ;
4. Maximum pressure range: 15 kPa ;
5. Pressure adjustment method: Knob type with display ;
6. Maximum diameter of the test sample: 88mm (with perforated plate and support mesh) ;
7. Effective test area:  $20 \pm 0.5 \text{ cm}^2$  (custom sizes available) ;
8. Aperture measuring instrument range: ( 5-500 )  $\mu\text{m}$  ;
9. Aperture display accuracy: 0.1 $\mu\text{m}$  ;

10. Pressurization rate: 2-2.5 kPa/min ;
11. Gas cylinder volume: 2.5L ;
12. Liquid level display method: scale lines ;
13. Fixture material: 304 stainless steel ;
14. Power supply voltage: 220V 50Hz ;
15. Pressurized air source: Built-in booster pump;
17. Data printing: Built-in printer;
18. Optional: Stamping type test

# FOCUS IN MATERIAL TEST

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