

## **AST-Y179 Diesel Cold Filter Plugging Point Tester**

**Standard Compliance:** SH/T 0248

### **Technical Features**

The cooling bath is dual-hole, allowing two samples to be tested simultaneously. The refrigeration temperature is intelligently controlled with high precision.

Adopts intelligent timing technology for easy parameter setting, with clear timing display and automatic stop when the set time is reached.

Equipped with an aspiration pump to effectively control the suction flow rate.

Complete accessories, including two negative pressure bottles for suction pressure control, fully meeting the requirements of SH/T 0248-2006.

### **Technical Specifications**

#### **I. Cooling Bath of Cold Filter Plugging Point Tester**

Power supply: 220V 50Hz

Temperature range: 60°C ~ -50°C

Accuracy:  $\pm 0.1^{\circ}\text{C}$

Cooling method: Compressor refrigeration

Working bath: 1 bath with 2 holes

Total power consumption:  $\leq 1200\text{W}$

Ambient temperature:  $5\sim 35^{\circ}\text{C}$

Relative humidity:  $\leq 85\%$

Dimensions: 550450420 mm

Weight: 30 kg

Cold Filter Plugging Point Suction Filtration Unit

Power supply: 220V 50Hz

Intelligent timer: Timing range 1 second ~ 99 hours, factory setting: 60 seconds 3

. U-tube differential pressure gauge: 0~300 mm

. Aspiration pump: Ultra-quiet, in compliance with SH/T 0248 5. Ambient temperature:

$5\sim 35^{\circ}\text{C}$

Relative humidity:  $\leq 85\%$

**Total** power consumption:  $\leq 100\text{W}$



Dimensions: 200×450×400 mm

. Weight: 3 kg

Application: Can be used independently. When equipped with a suitable cooling bath and other required conditions, it can perform cold filter plugging point tests.



**AST-179Z Automatic Diesel Cold Filter Plugging Point Tester**

## Standard Compliance: SH/T 0248

### Automation Performance

**Automation Level:** Equipped with an industrial-grade ARM 32-bit SMD core processor, which automatically completes the entire test process. Test data can be exported via USB flash drive for post-processing on a computer, enabling environmentally friendly and paperless testing.

**Control System:** Adopts industrial-grade PLC (Programmable Logic Controller) with three-proof coating treatment for stable and reliable operation. Equipped with a 7-inch touch screen display, users can complete tests according to on-screen instructions without professional training.

**Operating System:** Windows CE embedded operating system with full Chinese interface, flexible page switching, simple and convenient operation. It can automatically print test results and has large-capacity storage, capable of saving tens of thousands of test data and curves.

**Overall Performance:** Automatic self-diagnosis, over-temperature alarm with automatic heater power-off, and test completion prompt function.

**Data I/O:** Standard RS485 communication, compatible with USB 2.0 interface.

**Heating Mode:** This instrument adopts metal bath, no ethanol required during operation.

### Technical Features

**Adopts PLC control technology to realize intelligent control of the instrument's cooling temperature.**

**Temperature setting and control parameter adjustment are convenient, with high temperature control accuracy.**

**Equipped with a color touch screen; parameter setting, adjustment, display and modification are all completed on the touch screen, with a friendly human-machine interface.**

**Uses a metal bath with fast cooling speed and uniform temperature, avoiding the trouble of using a liquid bath. It is easy to operate and highly efficient.**

**Equipped with automatic protection function. In case of abnormal temperature in the cooling bath, the instrument will automatically cut off the power supply to the heating tube to avoid damage.**

### **Technical Specifications**

**Power supply: AC220V±10% 50Hz**

**Power rating: 2000W**

**Ambient temperature: 5~30°C**

**Relative humidity: ≤85%**

**Test accuracy: ±0.1°C**

**Measuring range: 50~-50°C**

**Sensor: Pt100**

**Cooling bath: Metal bath, dual-hole design, can test 2 samples simultaneously**

**Dimensions: 950500620 mm**

**Weight: 50 kg**