

AWD-06B Vacuum Distillation Tester ASTM D1160

AWD-06B vacuum distillation tester was designed and manufactured in accordance with ASTM D1160 for the determination of distillation characteristics of petroleum products and fractions that may decompose in distillation under atmospheric pressure.

The instrument adopts color LCD screen display and touch screen operation. It can store, query and print test records, automatically convert vapor temperature into atmospheric pressure equivalent temperature (AET), with reasonable structure, easy operation, stable performance, good reproducibility and other characteristics, it is an indispensable oil analysis instrument for petrochemical industry, national defense, electric power, scientific research, teaching and other departments.

Performance Characteristics:

The AWD-06B vacuum distillation tester is mainly composed of vacuum control system, circulating water system, glass distillation unit, cold trap, electronic control unit, etc. It is also equipped with digital display pressure-sensitive vacuum gauge, vacuum pump and explosion proof door made of tempered glass.

Vacuum system: There are two large vacuum pressure balance tanks to ensure the stability of vacuum pressure. Vacuum control valve adopts high quality precision vacuum manual valve, with small volume, easy operation, good sealing, fine tuning and other characteristics. The vacuum pressure gauge adopts digital display pressure sensitive vacuum gauge, which can display the vacuum value directly.

Circulating water system: A device used to provide cooling for a distillation system, consisting of a constant temperature water bath, a heater, a circulating pump, and circulating pipes.

Cold trap: Cold trap USES coolant to keep the temperature below -40°C. Liquid nitrogen can be used as coolant. 1) The cold trap fixed between the top of the condenser and the vacuum system is used to recover the cooled low-boiling components in the condenser during distillation. 2) A cold trap fixed between the temperature sensor and the vacuum gauge is used to prevent contamination of the vacuum gauge by low-boiling components during distillation.

The structure of glass distillation unit is manufactured according to GB/T9168-1997 standard, and it is a high-temperature vacuum device. When in use, all grinds should be cleaned and coated with high temperature vacuum grease.

The electronic control unit (ECU) is the control core of the instrument, which is mainly composed of CPU intelligent control system, color LCD touch operating system, test record printing system, and actuator.



Technical Parameters:

No.	Tech Indicator	Description
1	Power	AC220V±10% 50Hz (Can be changed to your country request)
2	Input Power	< 1300W
3	Environmental Temperature	5 ~ 35°C
4	Humidity	≤85%
5	Flask with the Highest Melting Temp Materials	400°C
6	Temperature Range	<450°C
7	Temperature Measurement Accuracy	±0.1°C
8	Condenser Maximum Temperature	80°C
9	The Largest Amount of Sample	200ml
10	Graduated Cylinder to Collect the Maximum Volume	200ml
11	Characteristics	<ul style="list-style-type: none"> ◆Single-Chip Control ◆Digital Display Distillation Temp. ◆Record & Print Automatically ◆Result Reliable ◆LCD Screen Display ◆Touch Screen Operation