



AUTOMATIC DISTILLATION APPARATUS FOR PETROLEUM PRODUCTS



Automatic Distillation Apparatus for Petroleum Products TT-86Z

Automatic Distillation Apparatus for Petroleum Products TT-86Z adheres to the ASTM D86 Standard Test Method for Distillation of Petroleum Products at Atmospheric Pressure, making it ideal for testing the distillation of various petroleum products.

These include light and middle distillates, automotive spark-ignition engine fuels with or without oxygenates, aviation gasoline, aviation turbine fuels, diesel fuels, biodiesel blends up to 20%, marine fuels, special petroleum spirits, naphtha, white spirits, kerosene, and Grades 1 and 2 burner fuels.

APPLICATIONS

The primary application of this apparatus is to automatically determine the distillation characteristics of a wide variety of petroleum products in compliance with the ASTM D86 standard.

It is suitable for testing:

- Light and middle distillates
- Automotive spark-ignition engine fuels (with or without oxygenates)
- Aviation gasoline
- Aviation turbine fuels
- Diesel fuels
- Biodiesel blends up to 20%
- Marine fuels
- Special petroleum spirits
- Naphtha
- White spirits

- Kerosene
- Grades 1 and 2 burner fuels

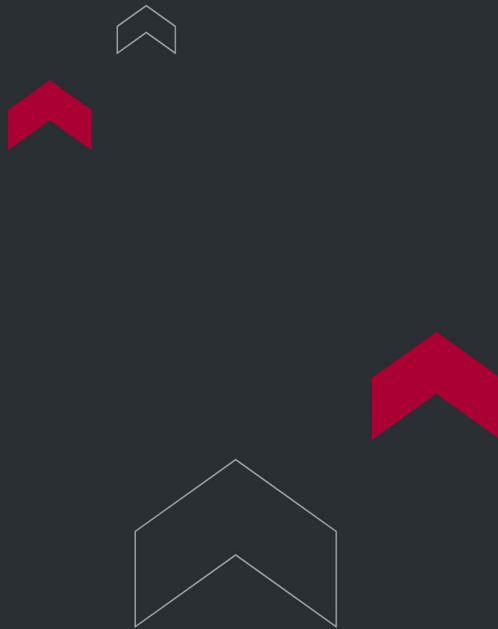
FEATURES

- The apparatus can automatically measure and control the entire experimental process using a single-chip microcomputer. A 10-inch touchscreen LCD displays the entire process, including temperature data, volume data, and related curves.
- The cylinder bath temperature is automatically controlled.
- The apparatus uses a quartz base plate.
- Automatic nitrogen extinguishing is supported.
- The liquid level is automatically tracked, and the flow velocity is controlled.

TECHNICAL SPECIFICATIONS

1. Rated voltage: AC 220V $\pm 10\%$ 50Hz or 110V $\pm 10\%$ 60Hz (110V also available)
2. Power: 1200W
3. Temperature range: Ambient temperature to 400°C
4. Temperature control precision: $\pm 0.1^\circ\text{C}$
5. Temperature sensor: RTD Pt100
6. Heating time to initial distillation point: 5 to 15 minutes
7. Distillation rate: 4 to 5 minutes

8. Residues in flask (5 ml): less than 5 minutes
9. Initial distillation point temperature detection: Optical fiber sensors
10. Recycling volume measurement range: 0 to 100 ml
11. Recycling volume measurement precision: ± 0.1 ml
12. Ambient requirements: Temperature 10°C to 40°C; Humidity $\leq 85\%$



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