



AUTOMATIC DISTILLATION ANALYZER

Automatic Distillation Analyzer TT-86Z

Automatic Distillation Analyzer 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

Specification	Value / Description
Rated voltage	AC 220V $\pm$ 10% 50Hz or 110V $\pm$ 10% 60Hz (110V also available)
Power	1200W
Temperature range	Ambient temperature to 400°C
Temperature control precision	$\pm$ 0.1°C
Temperature sensor	RTD Pt100
Heating time to initial distillation point	5 to 15 minutes
Distillation rate	4 to 5 minutes
Residues in flask (5 ml)	Less than 5 minutes

Specification	Value / Description
Initial distillation point temperature detection	Optical fiber sensors
Recycling volume measurement range	0 to 100 ml
Recycling volume measurement precision	±0.1 ml
Ambient requirements	Temperature 10°C to 40°C; Humidity ≤85%



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