



# **DISTILLATION TESTER**

## Distillation Tester LD-LDT-A10

Distillation Tester LD-LDT-A10 is a desktop device, automated and can withstand a very high temperature. It is designed according to (Test Methods for Distillation Characteristics of Petroleum Products) as per ASTM D86.

### Features:

- Alterable heating rate
- Distillation flask sustains temperature more than 500 °C
- Two graduated flasks
- Temperature adjustment circuit

### Applications:

It is used to determine distillate of engine fuel, solvent oil and light petroleum products.

### Specifications:

Model No.	LD-LDT-A10
Graduated flasks	10 ml and 100 ml
Scale division of graduated flask	10 ml is 0.1 ml and 100 ml is 1 ml
Ambient temperature	(-10) °C ~ 35 °C
Relative humidity	≤ 85 %
Thermometer	0 °C ~ 360 °C
Scale division	1 °C
Inner diameter of electric furnace	Φ50 mm, Φ30 mm and with a gap
Outer diameter of electric furnace	Φ105 mm
Refrigeration tube	Made of copper tube of $\phi 16 \times 1$
Angle between refrigeration tube and water level	15°
Length of refrigeration tube	555 ± 3 mm

# Distillation Tester

Size of refrigeration bath	180 x 100 x 150 mm
Ball diameter of flask	$\Phi 69 \pm 1$ mm
Neck diameter of flask	$\Phi 16 \pm 1$ mm
Angle between branch tube and neck	$75^\circ \pm 3^\circ$
Dimension	790 x 360 x 710 mm
Heating power system	1000 W / 220 V
Total power consumption	$\leq 1100$ W
Power supply	AC 220 V $\pm 10$ %, 50 Hz

## Benzene Distillation Tester (Low Temperature) LD-LDT-A11

Benzene Distillation Tester (Low Temperature) LD-LDT-A11 is a low temperature distillation tester which determines distillation characteristics of benzene, toluene and xylene. It has desktop structure and the distillation flask of the instrument can withstand temperature of more than 500°C.

### Features:

- Easy installation
- Desktop structure
- Distillation flask endures temperature of more than 500°C
- Simple design
- Heating power can be unremittingly adjusted
- It is also used to determine benzene, toluene, and xylene

### Applications:

It is used for determining the boiling points of gasoline, aviation gasoline, jet fuel vapor, distillate fuel, and diesel oil.

## Specifications:

Model No.	LD-LDT-A11
Ambient temperature	-10°C to 35°C
Relative humidity	≤ 85 %
Thermometer	Each one for 70°C to 90°C , 100°C to 120°C , and 125°C to 150°C
Scale division	0.1 °C
Total length	8000 mm
Water cooling tube	4500 mm
Heating power system	1000 W
Total power consumption	≤ 1100 W
Power supply	AC 220 V ± 10 %, 50 Hz

## Distillation Tester LD-LDT-A12

Distillation Tester LD-LDT-A12 is a safe and long life distillation tester which is designed corresponding to ASTM D1401 (Test Methods for Distillation Characteristics of Volatile Organic liquids for Industrial Use).

## Features:

- Adopt quartz glass tubes to enclose heating wire
- Adjustable knob
- Heating power of electric furnace can be continuously adjusted
- Safe and with long useful life

## Applications:

It is used to determine distillation characteristics of gasoline, aviation gasoline, jet fuels, special boiling point solvent, naphtha, diesel oil, distillate fuels and similar petroleum products.

## Specifications:

Model No.	LD-LDT-A12
Graduated flasks	100 ml
Scale division of graduated flask	1 ml
Outer diameter of distillation flask	φ65
Refrigeration tube	φ14
Length of refrigeration tube	560 mm
Dimension	620 x 510 x 620 mm
Heating power system	1000 W
Power supply	AC 220 V ± 10 %, 50 Hz

## Vacuum Distillation Tester LD-LDT-A13

Vacuum Distillation Tester LD-LDT-A13 is designed to determine distillation properties of products like paraffin oil, lubricating oil and other high boiling point petroleum products. Composed of distillation & vacuum parts, it is complied with ASTM D1160 standard Test Method for (Distillation of Petroleum Products at Reduced Pressure).

## Features:

- Continuous adjustment for heating power of furnace
- High quality cooling device to cool down temperature of the heating furnace
- Excellent vacuum performance, with maximum reduced pressure 2 mmHg
- Air bath with Pt 100 temperature sensor
- Air bath with Digital temperature controller

## Applications:

Used to determine high boiling point petroleum products, such as paraffin oil, lubricating oil, and others at reduced pressure.

## Specifications:

Model No.	LD-LDT-A13
Ambient temperature	5 °C to 35 °C
Relative humidity	≤ 85 %
Cubage of buffer vessel	1000 ml
Max. Residual pressure	≤ 2 mm Hg
Temperature controlling accuracy	± 1 °C
Temperature range air bath	Ambient temperature ~ 100 °C adjustable
Heating power for distillation flask	1000 W
Heating power for receiving flask	350 W
Power supply	AC 220 V, 50 Hz

## Distillation Tester Front Type LD-LDT-A14

Distillation Tester Front Type LD-LDT-A14 is a desktop structure model with adjustable heating power. It is designed according to (Test Methods for Distillation Characteristics of Petroleum Products at Barometric Pressure) as per ASTM D86.

## Features:

- Desktop structure
- Flexible and convenient to operate
- Special heating furnace to ensure the safety measurement
- Adjustable heating power
- Lifting device for easy operation

## Applications:

It is used to determine distillation characteristics of natural gasoline, vehicle gasoline, aviation gasoline, jet fuels, naphtha, diesel oil and similar petroleum products.

## Specifications:

Model No.	LD-LDT-A14
Distillation flask	125 mL
Ambient temperature	Room temperature to 35 °C
Relative humidity	≤ 85 %
Thermometer	(-2)°C to 300 °C and (-2) °C to 400 °C
Division value	1°C
Receiving cylinder	100 ml
Scale division	1 ml
Dimension	620 × 510 × 620 mm
Heating power system	1000 W
Power supply	AC 220 V ± 10 %, 50 Hz

## Distillation Tester Dual Units LD-LDT-A15

Distillation Tester Dual units LD-LDT-A15 is a double unit distillation tester which can determine two sets of different sample. It is designed according to (Test Methods for Distillation Characteristics of Petroleum Products at Barometric Pressure) as per ASTM D86.

## Features:

- Heating power can be repetitively adjusted
- Total immersion rod type thermometer
- Two sets of distillation systems
- LED temperature display mode

## Applications:

It is used to determine distillation characteristics of natural gasoline, vehicle gasoline, aviation gasoline, jet fuels, special boiling point solvent, distillate and similar petroleum products.

## Specifications:

Model No.	LD-LDT-A15
Graduated flasks	100 ml
Scale division of graduated flask	1ml
Distillation flask	125 ml
Ambient temperature	$\leq 35\text{ }^{\circ}\text{C}$
Relative humidity	$\leq 85\%$
Temperature controlling accuracy	$\pm 0.5\text{ }^{\circ}\text{C}$
Temperature range air bath	Room temperature+ $10\text{ }^{\circ}\text{C}$ to $60\text{ }^{\circ}\text{C}$
Thermometer	$(-2)\text{ }^{\circ}\text{C}$ to $300\text{ }^{\circ}\text{C}$ and $(-2)\text{ }^{\circ}\text{C}$ to $400\text{ }^{\circ}\text{C}$
Inner diameter of electric furnace	$\varphi 32\text{ mm}$ , $\varphi 38\text{ mm}$
Outer diameter of electric furnace	$\varphi 50\text{ mm}$
Dimension	830 x 610 x 870 mm
Heating power system	1000 W $\times$ 2
Total power consumption	$\leq 2500\text{ W}$
Power supply	AC 220 V $\pm 10\%$ , 50 Hz

## Distillation Tester (low temperature Double units) LD-LDT-A16

Distillation Tester (low temperature Double units) LD-LDT-A16 is a double-units distillation tester in which the minimum temperature of the condenser pipe can reach  $0^{\circ}\text{C}$ . It is designed according to (Test Methods for Distillation Characteristics of Petroleum Products at Barometric Pressure) as per ASTM D86.

## Features:

- Immersion rod type thermometer
- Ideal distillation tester under low temperature condition
- Compressor used as refrigeration device
- LED display



# Distillation Tester

## Applications:

It is used to determine natural gasoline, vehicle gasoline, special boiling point solvent, naphtha, diesel oil, distillate and similar petroleum products.

## Specifications:

Model No.	LD-LDT-A16
Graduated flasks	100 ml
Distillation flask	125 ml
Ambient temperature	$\leq 35\text{ }^{\circ}\text{C}$
Relative humidity	$\leq 85\%$
Temperature controlling accuracy	$\pm 0.5\text{ }^{\circ}\text{C}$
Thermometer	$(-2)\text{ }^{\circ}\text{C}$ to $300\text{ }^{\circ}\text{C}$ and $(-2)\text{ }^{\circ}\text{C}$ to $400\text{ }^{\circ}\text{C}$
Division value	$1\text{ }^{\circ}\text{C}$
Scale division	1 ml
Inner diameter of electric furnace	$\varphi 32\text{ mm}$ , $\varphi 38\text{ mm}$
Outer diameter of electric furnace	$\varphi 50\text{ mm}$
Dimension	830 x 610 x 870 mm
Heating power system	1000 W $\times$ 2
Total power consumption	$\leq 5000\text{ W}$
Power supply	AC 220 V $\pm 10\%$ , 50 Hz

## Distillation Tester (low temperature single unit) LD-LDT-A17

Distillation Tester (low temperature single unit) LD-LDT-A17 is a single distillation system with advanced refrigerator compressor. It is devised according to (Test Methods for Distillation Characteristics of Petroleum Products at Barometric Pressure) as per ASTM D86.

# Distillation Tester

## Features:

- Total immersion rod type Thermometer
- LED Digital display
- Digital temperature controller, heater, refrigeration device and stirrer
- Adjustable heating power

## Applications:

It is used to determine distillation characteristics of gasoline, aviation gasoline, jet fuels, special boiling point solvent, naphtha, diesel oil, distillate and similar petroleum products.

## Specifications:

Model No.	LD-LDT-A17
Graduated flasks	100 ml
Distillation flask	125 ml
Ambient temperature	$\leq 30\text{ }^{\circ}\text{C}$
Relative humidity	$\leq 85\%$
Temperature controlling range	$0\text{ }^{\circ}\text{C}$ to $60\text{ }^{\circ}\text{C}$
Temperature controlling accuracy	$\pm 0.5\text{ }^{\circ}\text{C}$
Thermometer	$(-2)\text{ }^{\circ}\text{C}$ to $300\text{ }^{\circ}\text{C}$ and $(-2)\text{ }^{\circ}\text{C}$ to $400\text{ }^{\circ}\text{C}$
Division value	$1\text{ }^{\circ}\text{C}$
Scale division	1 ml
Inner diameter of electric furnace	$\varphi 32\text{ mm}$ , $\varphi 38\text{ mm}$
Outer diameter of electric furnace	$\varphi 50\text{ mm}$
Dimension	720 x 590 x 660 mm
Heating power system	1000 W
Total power consumption	$\leq 2500\text{ W}$
Power supply	AC 220 V $\pm 10\%$ , 50 Hz