



# DISTILLATION TESTER

## Distillation Tester LDT-A10

Labtron LDT-A10 is 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.	LDT-A10
Graduated flasks	10ml and 100ml
Scale division of graduated flask	10ml is 0.1ml and 100ml is 1ml
Ambient temperature	-10~+35°C
Relative humidity	≤85%
Thermometer	0~360°C
Scale division	1°C
Outer diameter of electric furnace	Φ105mm
Inner diameter of electric furnace	Φ50mm, Φ30mm, and with a gap
Refrigeration tube	Made of copper tube of φ16×1
Angle between refrigeration tube and water level	15°
Length of refrigeration tube	555±3mm
Size of refrigeration bath	180*100*150mm
Ball diameter of flask	Φ69±1mm
Neck diameter of flask	Φ16±1mm
Angle between branch tube and neck	75°±3°
Dimension	790*360*710mm
Heating power system	1000W/220V
Total power consumption	≤1100W
Power supply	AC220V±10%, 50Hz

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

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.	LDT-A11
Ambient temperature	-10~+35°C
Relative humidity	≤85%
Thermometer	Each one for 70~90°C, 100~120°C and 125~150°C
Scale divisions	0.1°C
Total length	8000mm
Water cooling tube	4500mm
Heating power system	1000W
Total power consumption	≤1100W
Power supply	AC 220V±10%, 50Hz

## Distillation Tester LDT-A12

Labtron 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

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## 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.	LDT-A12
Graduated flask	100ml
Scale division	1ml
Outer diameter of distillation flask	φ65
Refrigeration tube	φ14
Length of refrigeration tube	560mm
Dimension	620*510*620mm
Heating power system	1000W
Power supply	AC 220V±10%, 50Hz

## Vacuum Distillation Tester LDT-A13

Labtron LDT-A13 is specially designed for determining petroleum products with high viscosity. It is crafted and made as per the "Test Methods for Distillation Characteristics of High Boiling Point Petroleum Products at Reduced Pressure".

## Features

- Adjustable heating power
- Platinum resistance temperature sensor
- Digital temperature controller

## Applications

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

## Specifications

Model No.	LDT-A13
Ambient temperature	5~35°C
Relative humidity	< 85%
Cubage of buffer vessel	1000ml
Max. Residual pressure	≤2mmHg
Temperature controlling accuracy	±1°C

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Temperature range air bath	Ambient temperature~100°C adjustable
Heating power for distillation flask	1000W
Heating power for receiving flask	350W
Power supply	AC 220V, 50Hz

## Distillation Tester (Front Type) LDT-A14

LDT-A14 distillation tester 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.	LDT-A14
Distillation flask	125ml
Ambient temperature	Room temperature to 35°C
Relative humidity	≤85%
Thermometer	(-2~300)°C and (-2~400)°C
Division value	1°C
Receiving cylinder	100ml
Scale division	1ml
Dimension	620*510*620mm
Heating power system	1000W
Power supply	AC 220V±10%, 50Hz

## Distillation Tester (Double Units) LDT-A15

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.	LDT-A15
Distillation flask	125ml
Ambient temperature	$\leq +35^{\circ}\text{C}$
Relative humidity	$\leq 85\%$
Thermometer	$-2\sim 300^{\circ}\text{C}$ and $-2\sim 400^{\circ}\text{C}$
Temperature controlling range	Room temperature $+10\sim 60^{\circ}\text{C}$
Temperature controlling accuracy	$\pm 0.5^{\circ}\text{C}$
Electric furnace hole diameters	$\phi 32$ , $\phi 38$ and $\phi 50$
Volume of graduated flask	100ml
Scale division	1ml
Dimension	830*610*870mm
Heating power of electric furnace	1000W $\times 2$
Total power consumption	$\leq 2500\text{W}$
Power supply	AC 220V $\pm 10\%$ , 50Hz

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

LDT-A16 is a double-unit 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.

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## Features

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

## 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.	LDT-A16
Distillation flask	125ml
Temperature controlling range	0°C~60°C
Temperature controlling accuracy	±0.5°C
Ambient temperature	≤+35°C
Relative humidity	≤85%
Thermometer	-2~300°C and -2~400°C
Division value	1°C
Volume of graduated flask	100ml
Scale division	1ml
Electric furnace hole diameters	φ32, φ38, and φ50
Heating power system	1000W×2
Dimension	830*610*870mm
Total power consumption	≤5000W
Power supply	AC220V±10%, 50Hz

## Distillation Tester (Low Temperature) LDT-A17

Labtron 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.

## Features

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

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## 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.	LDT-A17
Distillation flask	125ml
Volume of graduated flask	100ml
Ambient temperature	$\leq +30^{\circ}\text{C}$
Relative humidity	$\leq 85\%$
Temperature controlling range	$0-60^{\circ}\text{C}$
Temperature controlling accuracy	$\pm 0.5^{\circ}\text{C}$
Thermometer	$-2$ to $+300^{\circ}\text{C}$ and $-2$ to $+400^{\circ}\text{C}$
Thermometer scale divisions	$1^{\circ}\text{C}$
Scale division	1ml
Electric device hole diameters	$\phi 32$ , $\phi 38$ and $\phi 50$
Dimension	720*590*660mm
Heating power system	1000W
Total power consumption	$\leq 2500\text{W}$
Power supply	AC 220V $\pm 10\%$ , 50Hz





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