Distillation Units

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CE

LT/HCU-99000/M

ASTM D86 - ASTM D216 (obs.) - ASTM D447 (obs.) - ASTM D850 - ASTM D1078 - ASTM E133
DIN 51751
IP 123 - IP 195
ISO 3405

ASTM D86 - Distillation of Petroleum Products at Atmospheric Pressure.
This test method covers the atmospheric distillation of petroleum products using a laboratory batch distillation unit to determine quantitatively the boiling range characteristics of such products as natural gasolines, light and middle distillates, automotive spark-ignition engine fuels, aviation gasolines, aviation turbine fuels,
1-D and 2-D regular and low sulphur diesel fuels, special petroleum spirits, naphthas, white spirits, kerosines, and grades
1 and 2 burner fuels. The test method is designed for the analysis of distillate fuels; it is not applicable to products containing appreciable quantities of residual material.

ASTM D216 (obs.), ASTM D447 (obs.) - Distillation Test Method.

ASTM D447 (obs.) - Test Method for Distillation of Plant Spray Oils.

ASTM D850 - Distillation of Industrial Aromatic Hydrocarbons and Related Materials.
This test method covers the distillation of industrial aromatic hydrocarbons and related materials of relatively narrow boiling ranges from 30 to 250°C.

ASTM D1078, IP 195 - Distillation Range of Volatile Organic Liquids.
This test method covers the determination of the distillation range of liquids boiling. Between 30 and 350°C, that are chemically stable during the distillation process, by manual or automatic distillation procedures. This test method is applicable to organic liquids such as hydrocarbons, oxygenated compounds, chemical intermediates, and blends thereof.

ASTM E 133, IP 123, DIN 51751, ISO 3405 - Standard Specification for Distillation Equipment.
This specification covers distillation equipment used in the following ASTM test methods: D86, D216, D447, D850, and D1078.

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Manual instrument for distillation composed by:
- Structure fully made in stainless steel
- Front panel including manual controls for heating power, fan activation and main power supply
- Plate supported by a base whose height is adjustable with an elevation mechanism controlled by an external knob
- Electric heater 1200 Watt with ceramic-glass plate support
- Wide toughed glass squared window and stainless steel cover with hole for flask neck
- Cooling fan manually activated for cooling down the glass after analysis
- Condensing unit fully made in stainless steel with double chamber insulation:
  - Condensing tube made in stainless steel
  - Insulated cover with handle and hole for accommodation of the thermometer with relevant support and liquid level indicator
  - Rear connection for coolants circulation, over flow tube and atmospheric drain cock
  - White background panel for easier reading of the receiver glass cylinder level mark

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Manual instrument for distillation composed by:
- Structure fully made in stainless steel
- Front panel including manual controls for heating power, fan activation and main power supply
- Plate supported by a base whose height is adjustable with an elevation mechanism controlled by an external knob
- Controlled by a digital thermoregulator with PT100 A class temperature sensor
- PID range from ambient to +450°C, resolution and accuracy 0,1°C
- Electric heater 1200 Watt with ceramic-glass plate support
- Wide toughed glass squared window and stainless steel cover with hole for flask neck
- Cooling fan manually activated for cooling down the glass after analysis
- Condensing unit fully made in stainless steel with double chamber insulation:
  - Condensing tube made in stainless steel
  - Insulated cover with handle and hole for accommodation of the thermometer with relevant support and liquid level indicator
  - Rear connection for coolants circulation, over flow tube and atmospheric drain cock
  - White background panel for easier reading of the receiver glass cylinder level mark

Power consumption
- 1200 Watt

Power supply
- 220 or 115 Vac 50/60 Hz