



Distillation Units



LT/HU-99000-A/M + LT/CU-99000-B/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.

Art. LT/HU-99000-A/M Heating Distillation Unit ASTM D86

- Completely made in stainless steel
- Wide toughened squared glass window
- Heating controlled by a heating plate electronically regulated
- Electric heater 1200 W
- Warning indicator red lamp
- Cooling fan with main switch mounted on the front panel
- Plate supported by a base whose height is adjustable with an elevation mechanism controlled by an external handle

Power supply

- 230 Vac 50/60 Hz

Art. LT/CU-99000-B/M Condensing Distillation Unit ASTM D86

- Completely made in stainless steel
- Condensing tube made in chromium plated brass
- Insulated cover with handle and with hole for accommodation of the thermometer with relevant support
- Plastic support for cylinder
- Connections allowing water circulation
- Drain cock
- Low liquid level indicator

Power supply

- 220 Vac 50/60 Hz



Distillation Units



Art. LT/RDS-900/SA Semi Automatic Refrigerated Distillation Unit ASTM D86

Digital Heating Unit:

- Completely made in stainless steel
- Wide toughened glass squared window
- Recovery metal plate supported by a base whose height is adjustable with elevating system controlled by external handle
- Digital display thermo regulator with 0.1°C resolution
- 3 programmed set points for Gasoline, Kerosene, Gasoil for semiautomatic operation mode
- Sample probe PT100 made of glass with case in stainless steel high temperature protection silicone cable with connector for easy removal and calibration
- Probe Stopper made of PTFE with hook for easy removal
- Electronic regulator for manual operation
- Warming indicator lamp
- Heating elements of 1200 W composed by twin infrared halogen heater lamp
- Glass Ceramic plate flask support with hole (51 mm)
- Cooling fan with green switch panel mounted
- Fire extinguisher system composed by:
 - solenoid valve
 - red emergency push button
 - dedicated line internally placed with holes for the emission of the fire extinguisher product
 - joint for the external connection
- Main switch power supply 230 Vac 50 Hz 1400 W with double fuse protection

Digital Refrigerated Condensing Unit:

- Integrated cooling system controlled by a settable digital thermoregulator for temperature range from 0°C up to 60°C
- Resolution 0.1°C
- PTC Temperature probe
- Cooling system by motor compressor with CFC free refrigerant gases
- Heating element up to 60°C
- Safety protection system for high temperature and low liquid level
- Stainless steel liquid bath, with drain tap
- Condensing tube made in stainless steel
- Insulated cover with hole for thermometer accommodation
- Inlet / outlet joints allowing the connection to an external cryostat
- White background panel for easier reading of the receiver glass cylinder level mark
- Metal support for the positioning of the receiver glass cylinder
- Plastic cover with hole for the glass cylinder

Power supply

- 230 Vac 50 Hz 1400 W

Accessories

- LAB-100-005: h.r. gloves
- LAB-100-332: digital stopwatch
- LAB-101-176: flask type A, 100 ml
- LAB-101-177: flask type B, 125 ml
- LAB-101-187: receiver Type B 100 ml
- LAB-101-191: ceramic board Ø 25 mm
- LAB-101-192: ceramic board Ø 32 mm
- LAB-101-193: ceramic board Ø 38 mm
- LAB-101-194: ceramic board Ø 50 mm
- LAB-101-300: cap condenser
- LAB-101-301: cap flask
- LAB-101-302: cap flask Teflon
- LAB-101-303: boiling stones
- LAB-101-304: cleaning cord
- LAB-101-305: drip deflector
- LAB-101-306: evaporating disc
- T-AS7C: thermometer ASTM 7C
- T-AS8C: thermometer ASTM 8C - IP 6C

Spare Parts

- LAB-110-024: heater
- LAB-110-025: air fan ventilator
- LAB-110-026: elevating system
- LAB-150-110: electronic regulator