



**UNIVERSE**

## **VACUUM DISTILLATION TESTER AZA1340**

The AZA1340 Vacuum Distillation Tester is a high-precision analytical instrument designed for determining the distillation characteristics of petroleum products under reduced pressure, fully compliant with ASTM D1160.

The instrument is specifically engineered for testing high-boiling petroleum fractions that cannot be accurately analyzed under atmospheric distillation conditions.

Operating within a controlled vacuum range of 0.13 kPa to 6.7 kPa (1–50 mmHg), the AZA1340 enables precise determination of:

- Initial Boiling Point (IBP)
- Final Boiling Point (FBP)
- Complete vacuum distillation curves
- Atmospheric equivalent boiling temperatures

The system combines stable vacuum regulation, precision temperature measurement, advanced refrigeration technology, and enhanced operational safety, making it ideal for:

- Petroleum testing laboratories
- Oil refineries
- Quality control centers
- Research and development facilities
- Lubricant and heavy oil analysis laboratories





## UNIVERSE TECHNICAL SPECIFICATIONS

| Parameter                   | Specification                |
|-----------------------------|------------------------------|
| Model                       | AZA1340                      |
| Power Supply                | AC 220V $\pm$ 10%, 50 Hz     |
| Heating Power               | 1200 W                       |
| Temperature Sensor          | Glass PT100                  |
| Temperature Control         | PID Precision Controller     |
| Pressure Display            | Digital                      |
| Pressure Adjustment         | Precision Needle Valve       |
| Distillation Pressure Range | 0.13 – 6.7 kPa (1 – 50 mmHg) |
| Refrigeration Method        | Imported Compressor          |
| Refrigeration Temperature   | $\leq -45^{\circ}\text{C}$   |
| Cooling Method              | Air Cooling                  |
| Circulation Mode            | Pump Circulation             |
| Water Level Control         | Alarm Prompt                 |
| Safety Door                 | Thickened Tempered Glass     |



## UNIVERSE Operating Conditions

| Parameter      | Requirement                                      |
|----------------|--|
| Power Supply   | Single-phase AC                                  |
| Installation   | Stable and vibration-free laboratory bench       |
| Cooling System | Integrated refrigeration and air-cooling         |
| Environment    | Clean, dry, and ventilated laboratory conditions |

