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MIXER WITH HEATING JACKET AZA0955

The AZA0955 Mixer with Heating Jacket from AZALAB is a precision-engineered laboratory system designed for uniform, temperature-controlled mixing of bituminous and thermally sensitive materials. It is an essential component in asphalt mix design, pavement material testing, and quality control laboratories, ensuring accurate and repeatable preparation of Hot Mix Asphalt (HMA) and similar materials. By maintaining consistent thermal conditions throughout the mixing cycle, the AZA0955 ensures optimal binder viscosity, complete aggregate coating, and homogeneous blending—critical for reliable laboratory testing and performance evaluation.

Key Functional Features

- High-Grade Mixing Bowl
Stainless Steel (SS 304 / SS 316)
Resistant to heat, abrasion, and chemical attack
- Integrated Heating Jacket
Uniform heat distribution across the mixing chamber
Prevents temperature gradients during mixing
- Digital PID Temperature Control
Precise temperature regulation ($\pm 2^{\circ}\text{C}$ or better)
Real-time display and stable control





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- Efficient Mixing Mechanism

Paddle or planetary type mixing

Ensures complete and homogeneous blending

- Heavy-Duty Drive System

Designed for continuous operation under load

Stable torque for viscous materials

Safety Features

- Over-temperature protection
- Thermal cut-off system
- Motor overload protection

Applications

- Asphalt mix design (HMA, DBM, BC)
- Road construction quality control
- Pavement material research
- Bitumen modification studies
- Polymer and chemical mixing applications



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0955
Type	Mixer with Heating Jacket
Mixing Capacity	5–10 L / 10–20 kg (model dependent)
Bowl Material	SS 304 / SS 316
Heating System	Electrical heating jacket
Temperature Range	Ambient to 200°C / 250°C
Temperature Control	Digital PID controller
Accuracy	±2°C
Mixing Type	Paddle / Planetary
Motor Rating	0.5 HP – 1 HP
Speed	Fixed or variable
Power Supply	230V AC, 50 Hz, Single Phase