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FILTERLESS CENTIFUGE EXTRACTOR AZA0947

The AZA0947 Filterless Centrifuge Extractor from Azalab is a high-efficiency laboratory instrument designed for the rapid and accurate determination of bitumen (asphalt binder) content in hot-mix bituminous paving mixtures.

Unlike conventional centrifuge extractors, the AZA0947 features a filterless design with an integrated separation mesh, eliminating the need for disposable filter papers. This significantly reduces operating costs, simplifies workflow, and minimizes handling-related errors.

The system is ideally suited for high-throughput quality control laboratories, asphalt plants, and infrastructure projects requiring fast, reliable, and standards-compliant testing.

Key Functional Features

- Filterless Extraction System

Eliminates consumables and simplifies operation

- High-Speed Motorised Operation

Rapid extraction cycles for improved productivity

- Variable Speed Control

Adjustable speed for different sample conditions





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- Integrated Mesh Separation

Ensures consistent and accurate filtration

- Reduced Operational Errors

No dependency on filter paper placement

- Robust & Durable Construction

Designed for heavy-duty laboratory use

- Enhanced Safety System

Lid interlock, enclosed chamber, and braking system

Standards Compliance

Fully compliant with:

- ASTM D2172 – Quantitative Extraction of Asphalt Binder
- AASHTO T164 – Extraction of Asphalt Binder from HMA
- IS 2720 (Part 4) – Sieve analysis of recovered aggregates

Widely accepted under:

- MoRTH specifications (India)
- International QA/QC and laboratory standards

Applications

- Bitumen content determination in hot mix asphalt (HMA)
- Asphalt plant quality control and production monitoring
- Mix design verification and compliance testing
- Aggregate recovery for sieve analysis
- Research and academic laboratories



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0947
Operation	Filterless motorised centrifuge extraction
Capacity	1500 g / 3000 g / 5000 g options
Speed Range	Up to ~3600 RPM (model dependent)
Speed Control	Variable
Speed Indication	Analog / digital (model dependent)
Bowl	Integrated mesh, SS / anodized aluminum
Housing	Heavy-duty aluminum / steel
Motor	High-torque electric motor
Power Supply	230 V AC, 50 Hz, single phase
Safety	Lid interlock, enclosed chamber, braking system
Standards	ASTM D2172, AASHTO T164, IS 2720