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REFLUX EXTRACTOR 4000 GMS AZA0941

The AZA0941 Reflux Extractor (4000 GMS) from Azalab is a high-efficiency laboratory apparatus designed for the quantitative determination of bitumen content in asphalt paving mixtures using the reflux extraction method.

Engineered for large sample capacities up to 4000 grams, the AZA0941 is an essential system for civil engineering laboratories, asphalt plants, and quality control facilities where accurate binder content analysis is critical for ensuring compliance with mix design specifications.

By enabling precise separation of bitumen from aggregates, the AZA0941 directly supports the production of durable, high-performance pavements.

Key Functional Features

- Reflux Extraction Method

Ensures thorough and consistent bitumen removal

- Large Sample Capacity (4000 g)

Improves test reliability and representativeness

- High-Efficiency Condenser System

Maximizes solvent recovery and reduces losses

- Controlled Heating System

Maintains stable extraction condition





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- Closed-System Operation

Enhances safety and reduces solvent exposure

- Ease of Operation & Maintenance

Simple assembly, disassembly, and cleaning

- Post-Extraction Aggregate Recovery

Suitable for sieve analysis and grading

Applications

- Asphalt mix design verification
- Road construction quality control
- Bitumen content determination
- Civil engineering and materials testing laboratories
- Research and academic institutions

Standards Compliance

Designed to conform to:

- ASTM D2172 – Quantitative Extraction of Bitumen from Bituminous Paving Mixtures

(Also compatible with equivalent international test standards)

Ensures accurate, repeatable, and globally accepted results.



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TECHNICAL SPECIFICATION

Parameter	Specification
Model	AZA0941
Method	Reflux Extraction
Sample Capacity	Up to 4000 g
Heating System	Heating mantle / hot plate
Extraction Vessel	Heat-resistant glass / metal
Condenser	High-efficiency reflux condenser
Collection Vessel	Solvent-bitumen solution flask
Construction	Borosilicate glass / stainless steel (model dependent)
Power Supply	220–240 V, 50/60 Hz, single phase
Safety	Closed system with solvent recovery
Standards	ASTM D2172
Dimensions	Approx. 400 × 300 × 700 mm
Weight	Approx. 15–25 kg