



## HIGH SPEED STIRRER AZA0855

The AZA0855 High Speed Stirrer is a robust and versatile laboratory instrument designed for efficient mixing, homogenization, and dispersion of liquids and semi-liquids. Engineered for both mechanical analysis and general laboratory applications, it is suitable for research, industrial, and academic environments requiring reliable and consistent mixing performance.

Driven by a high-torque motor, the unit achieves speeds up to 6000 RPM, with approximately 4000 RPM under load, ensuring effective particle dispersion and uniform blending. The system includes a dispersion cup with removable baffle, enhancing mixing efficiency while minimizing vortex formation.



### Purpose & Importance

The AZA0855 is designed to provide controlled and high-speed agitation for a wide range of laboratory processes.

### Key Functions

- Homogenization of liquid mixtures
- Dispersion of solid particles in liquids
- Preparation of suspensions and emulsions
- Enhancement of reaction kinetics through uniform mixing



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### Key Features & Benefits

- High-Speed Performance

Variable speed range up to 6000 RPM for efficient mixing

- High Torque Motor

Maintains stable performance under load (~4000 RPM)

- Variable Speed Control

Precise adjustment for different applications

- Enhanced Mixing Efficiency

Dispersion cup with removable baffle reduces vortex formation

- Interchangeable Impeller System

Supports multiple impeller types for varied applications

- Durable Construction

Corrosion-resistant stainless steel shaft and robust body

- Compact & Stable Design

Bench-friendly unit with low vibration and stable operation

### Applications

- Mechanical analysis and dispersion studies
- Chemical and analytical laboratories
- Pharmaceutical formulation (suspensions, emulsions)
- Food and beverage quality testing
- Cosmetic formulation (creams, gels, lotions)
- Academic and research institutions
- Industrial R&D laboratories



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**TECHNICAL SPECIFICATION**

<b>Parameter</b>	<b>Details</b>
Model	AZA0855
Speed Range	1000 – 6000 RPM (variable)
Speed Under Load	Approx. 4000 RPM
Motor Type	High-Torque AC/DC Motor
Max Stirring Volume	Up to 10 Litres (application dependent)
Impeller Types	Propeller (std.), Paddle / Turbine (optional)
Shaft Material	Stainless Steel
Body Construction	Mild Steel / ABS (Powder Coated)
Power Supply	220–230 V AC, 50 Hz
Noise Level	< 65 dB
Control Interface	Speed Regulator Knob / Digital Controller
Application	Laboratory mixing & dispersion
Brand	AZALAB