

Dental Vacuum Mixer Small Laboratory Vacuum Mixer With Vacuum Pump

Item Number: ZB06



Introduction

Dental vacuum mixer for laboratories with an oil-free vacuum pump, 500ml capacity, adjustable vibration, bubble-free mixing, and reliable preparation of phosphate investment, agar, gypsum and casting materials for dense, accurate models.

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Application	Description	Key Benefit
Dental phosphate investment preparation	Mix phosphate-based dental investment materials under vacuum before use in model and casting workflows.	Reduced air entrapment helps improve filling behavior and model density.
Dental gypsum model fabrication	Prepare gypsum mixtures for dental models using controlled mixing and adjustable vibration.	Supports more uniform, compact models with fewer visible voids.
Agar investment and casting material preparation	Process agar-based materials in a vacuum environment where trapped air could affect filling and surface quality.	Improves material penetration into detailed forms and cavities.
Dental laboratory casting workflows	Integrate vacuum mixing into the preparation stage for materials used in dental casting processes.	Provides a repeatable preparation method for consistent downstream results.
Small-batch laboratory research	Prepare limited quantities of investment, gypsum, agar, and related casting materials for testing or process development.	Optional smaller tanks help match capacity to the batch size and reduce unnecessary material use.
Dental education and technical training	Demonstrate vacuum mixing, vibration, and material preparation principles in teaching laboratories.	Offers visible, adjustable process control in a compact laboratory unit.

Parameter	Specification
Product Item Number	ZB06
Product Type	Laboratory dental vacuum mixer with vacuum pump
Primary Function	Mixing and vibrating dental investment and casting materials under vacuum
Compatible Materials	Phosphate-based dental investment materials, agar, gypsum, and related casting materials
Standard Mixing Tank	500 ml
Optional Mixing Tanks	250 ml and 350 ml, customizable

Parameter	Specification
Effective Volume	500 ml
Vacuum Degree	≤0.085 Mpa
Vacuum Pump Type	Oil-free vacuum pump
Mixing Speed	270 r/min
Vibration Mode	Steplessly adjustable
Power	110 W
Power Supply	220 V AC, 50 Hz
Overall Dimensions	Length × width × height: 350 × 320 × 580 mm
Weight	25 kg