

Constant Temperature Electric Heating Vacuum Mixer

Item Number: ZB02



Introduction

Constant temperature electric heating vacuum mixer for bubble free viscous slurry processing with adjustable speed precise heating transparent vacuum vessel and reliable laboratory performance in pharmaceutical adhesive fragrance cosmetic coating pigment additive electronic and new energy research applications

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Application	Description	Key Benefit
Pharmaceutical Formulation	Mix viscous pharmaceutical materials under vacuum while applying a controlled temperature to improve flow behavior.	Helps minimize bubbles and supports more consistent small-batch formulation work.
Adhesive Development	Process adhesive compounds and glue-like materials in 50 ml to 1000 ml batches with adjustable mixing speed.	Supports controlled viscosity adjustment and repeatable laboratory trials.
Fragrance and Cosmetic Production	Mix viscous fragrance, cosmetic, and personal-care formulations while observing the material through the transparent vessel.	Provides direct visibility of the mixing state and helps reduce entrained air.
Coatings and Pigments	Agitate coatings, pigments, and related viscous materials under adjustable vacuum, temperature, and speed conditions.	Enables controlled processing for material evaluation and formulation optimization.
Fine Chemical Research	Conduct small-volume research on viscous chemical mixtures that benefit from temperature-assisted agitation.	Combines precise operating adjustment with convenient material observation.
Electronic Materials	Process viscous electronic materials where air inclusion can affect formulation quality or downstream handling.	Vacuum mixing supports a cleaner, more uniform material condition.
New Energy Materials	Prepare and evaluate viscous slurries and related materials used in new energy research.	Offers flexible batch capacity, adjustable speed, and temperature-assisted viscosity control.
Academic and Industrial Research	Use the unit for controlled laboratory experiments involving viscous gels, pastes, slurries, and additives.	Provides a versatile platform for repeatable process development across material categories.

Parameter	Specification
Product identifier	ZB02
Product type	Constant temperature electric heating vacuum mixer
Applicable materials	Pharmaceuticals, adhesives, fragrances, cosmetics, coatings, pigments, additives, and other viscous glue-like materials
Mixing environment	Vacuum
Maximum vacuum degree	-0.1 MPa
Heating method	Electric heating
Heating working temperature	50°C to 150°C, freely settable
Temperature control accuracy	1%
Mixing capacity	50 ml to 1000 ml
Motor power	90 W

Parameter	Specification
Adjustable mixing speed	40 to 466.6 rpm
Torque at higher-speed condition	21.3 kg.cm at 333 rpm
Torque at lower-speed condition	6.9 kg.cm at 25 rpm
Vacuum vessel material	Polycarbonate
Vacuum vessel manufacturing method	Injection molded
Vessel visibility	Transparent, allowing direct observation of material mixing status
Vessel impact performance	Resistant to drops and impacts
Vacuum-change performance	Able to withstand substantial changes in vacuum degree
Vessel sealing method	High-quality silicone rubber ring between upper and lower vessel sections
Sealing grease requirement	Not required
Mixing shaft seal	Reliable rotating seal between vacuum vessel and mixing shaft
Vacuum and gas adjustment	Dedicated precision needle valve for fine adjustment of incoming and extracted gas volume
Pneumatic connection	Quick-change fitting between needle valve and tubing
Tubing	Imported soft nylon tube
Vacuum monitoring	Side-mounted vacuum gauge
Operating environment temperature	-25°C to 40°C
Power supply	220 V $\pm$ 10%
Mixer dimensions	Length $\times$ width $\times$ height: 380 $\times$ 290 $\times$ 580 mm
Temperature controller dimensions	260 $\times$ 220 $\times$ 125 mm
Complete machine weight	17 kg