



LabRAM

Vacuum Mixer

The LabRAM Vacuum bench top mixer utilizes ResonantAcoustic® technology that applies low-frequency, high-intensity acoustic energy to create a uniform shear field throughout the entire mixing vessel. The result is rapid fluidization and dispersion of material. ResonantAcoustic® Mixing (RAM) is a non-invasive mixing technology; no impellers, or wands are used.

The LabRAM Vacuum Mixer is an indispensable mixer for any laboratory and offers:

High Quality Mixes

- Complete and thorough
- Consistent from batch to batch

Quick turn around:

- Rapid mix times
- No impellers to clean
- No mix vessel to clean
- Mixing vessel is replaced in seconds

Versatility:

- Mix gases, liquids, solids, powders, pellets
- Mix very viscous liquids or pastes
- Mix in a variety of vessels including glass vials, disposable containers, tubes or custom metal vessels

Safe mixing for sensitive and hazardous materials:

- Mix in sealed vessels
- Mix in disposable vessels
- No localized areas of high shear — reduced heat generation
- Vacuum equipped



Specifications

Features:

- Mix capacity: up to 500 grams
- Vacuum equipped
- RAMWARE™ Software for data collection and programmable mixing protocols
- 100 G acceleration (981 m/sec²)
- Digital acceleration and frequency readout
- Digital timer

Size:

- Mixer: 130 lbs (59kg), 16 inch (41 cm) diameter
- Power supply and controls: 40 lbs (18kg)
- Bench top mounting
- 220 VAC, 60Hz



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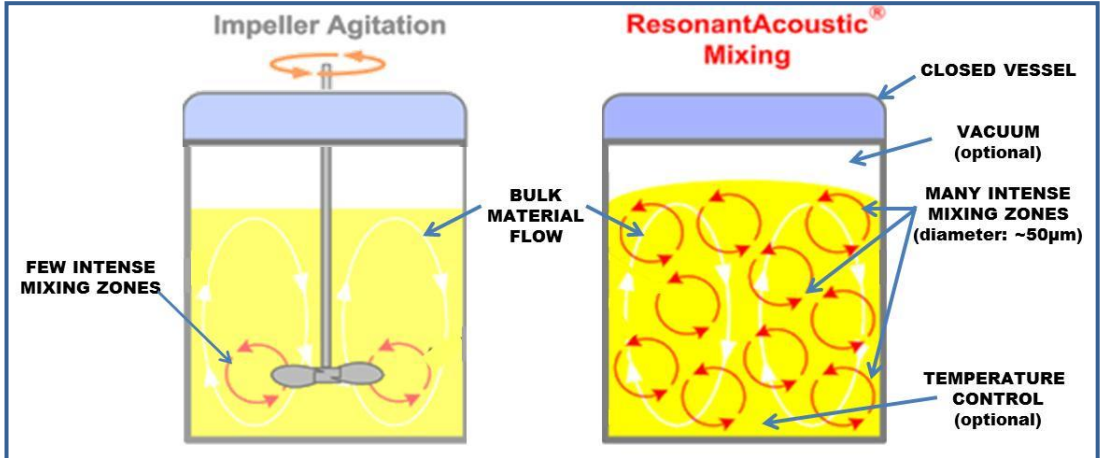
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- 점성이 높은 물질을 짧은 시간에 혼합을 할 수 있는 시스템입니다.
(1 ~ 1,000,000 cP)
- 가스, 액체, 고체, 분말 및 점성이 있는 물질을 진공상태에서 유동화 및 분산의 혼합을 할 수 있으며, Coating과 Mixing을 동시에 수행할 수 있는 시스템입니다.
- 임펠러를 사용하지 않고, low-frequency와 high-intensity acoustic energy를 발행하여, 혼합용기 내부의 물질을 고르게 혼합시킬 수 있습니다.
- Shipping Container를 포함한 다양한 튜브 및 일회용 플라스틱 용기 등을 혼합용기로 사용할 수 있습니다.
- 진공상태에서 산소 또는 습기 등에 민감한 물질을 효율적으로 혼합할 수 있습니다.
- 나노입자 현탁액과 점성 젤까지 다양한 재료의 유동화 및 분산이 가능합니다.
- Jacketed Vessel을 이용하여, 혼합온도를 조절할 수 있습니다.

Applications

- Nano – Micro Particle Mixing & Coating
- Powder - Powder Mixing & Coating
- Powder – Liquid Mixing
- Liquid – Liquid Mixing : Suspensions and Emulsification
- High Viscosity Pastes and Gels Mixing
- Mixing Energetics Compound
- Powder & Viscous Liquid Polymer