



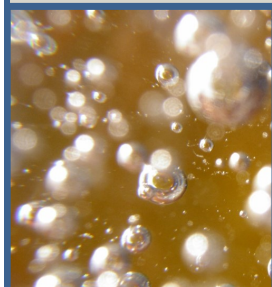
LabRAM™ II



How You Think About Mixing and Processing



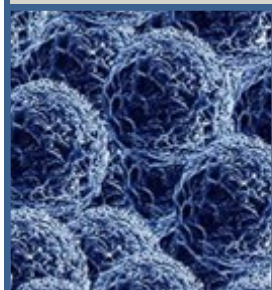
Solids/Powders



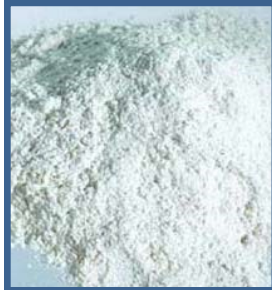
Liquids/Gases



Viscous/Slurry



Coating/Nano



Mill/Grind

Resodyn Acoustic Mixers' **LabRAM™ II**, features significant operational and control features for mixing and processing a broad range of applications. Many difficult to mix materials can be processed faster, better, more efficiently, and more productively using the **LabRAM™ II**.

Designed around Dynamic Processing Requirements

The **LabRAM™ II** design features reflect users' critical needs, delivering twice the capacity, order-of magnitude power increase compared to the previous LabRAM, exceptional sound reduction, integrated accessory operation, recipe development and data management, and the speed, quality, and lab-to-production scaling RAM's reputation is built on.

The **LabRAM™ II** Mixing and Processing Capabilities

- Up to 2.2 lbs. (1 kg) mix capacity, double the capacity of previous **LabRAM™** models
- Programmable recipe development and storage, data management and download
- Adjustable and optional vessel holders accept many mixing vessel types
- Manual or automatic/programmable vacuum operation (optional)
- Jacketed Vessel provides mixing vessel temperature control from 302°F (150°C) heating to 0°F (-18°C) cooling (optional)
- Temperature sensor - precision resistance temperature detectors (RTDs) with m12 connector (optional)
- Built-in strobe facilitates viewing of **RAM** mixing phases and progression (optional)
- Fully integrated operating software with touchscreen interface
- Vessel contents processing data monitoring and collection while mixing
- Multiple level security and access control
- Fully integrated **LabRAM™ II** houses all electronics, power and control hardware, eliminating the need for a separately housed control component
- Acoustic housing dimensions 33" H x 29" W x 24 1/2" D (cm: 83.8 x 73.7 x 62.2)

Global Mixing & Processing Technology

Since its introduction to the marketplace in 2007, **RAM** mixers have become the technology of choice for many commercial mixing and processing applications. **RAM's** unique combination of features and performance has proven successful from laboratories to production facilities, at over 800 locations in 30+ countries worldwide, many in Fortune 500 companies.



- Ideal for
- Liquids
 - Gases
 - Solids
 - Slurries
 - Coating
 - Milling



Integrated, slide-out handles for ease of handling and proper placement.



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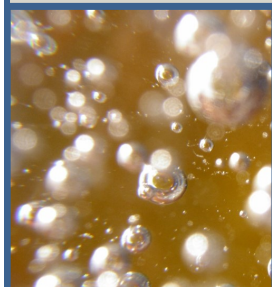
LabRAM™ II

change How You Think About Mixing and Processing

Optional LabRAM™ II Processing Accessories



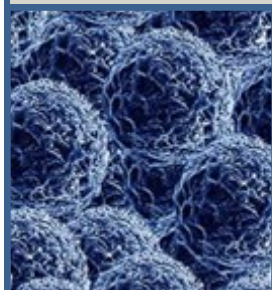
Solids/Powders



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Mill/Grind

A. Jacketed Vessel

- Up to 2.2 lbs. (1 kg) payload
- Cooling system capable of temperature range from 302°F (150°C) to 0°F (-18°C)
- Free-standing chiller/heaters available

B. Spray System

- Distribute or coat dry ingredients with minute amounts of liquid without wetting or clumping
- Up to 2.2 lbs. (1 kg) payload
- Vacuum compatible reaching 10 Torr
- Syringe and Peristaltic pumps available

C. Automatic Vacuum System

- Automatic vacuum controlled through LabRAM operating system
- Integrate vacuum function in recipes
- Can operate in manual mode for development reaching 10x Torr

D. Manual Vacuum System

- Manual vacuum integrates with LabRAM connecting hardware
- Fingertip analog control
- Test and develop parameters, with vacuum reaching 10 Torr



ResonantAcoustic® Mixing (RAM) Product Line Features



LabRAM™ performance is reflected across the RAM product line, enabling new product development and breakthrough results not possible with traditional mixing methods. All RAM products use low-frequency acoustic mixing at up to 100g of acceleration for intense but low-shear mixing resulting in:

- 10—100x faster processing
- Highly reliable repeatability
- Direct scaling from laboratory to production without increases in processing time
- Capacities of 1.1 lbs (500 gram LabRAM™ I), 2.2 lbs. (1 kg, LabRAM™ II) to 11 lbs. (5 kg, OmniRAM), 80 lbs. (36.3 kg, RAM 5), to 920 lbs. (417.3 kg, RAM 55)
- Exceptional ingredient distribution
- Hazardous material compatible options

Witness RAM Technology First Hand, with Your Materials:
 Arrange a FREE RAM demonstration and mixing test at your facility.
 406-497-5333
 info@resodyn.com