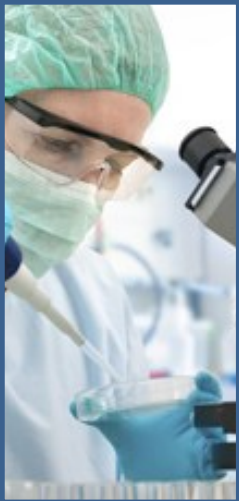


PharmaRAM™ II



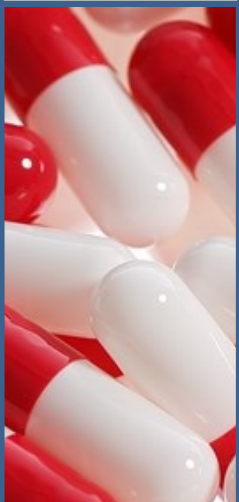
the way you think about formulating pharmaceuticals



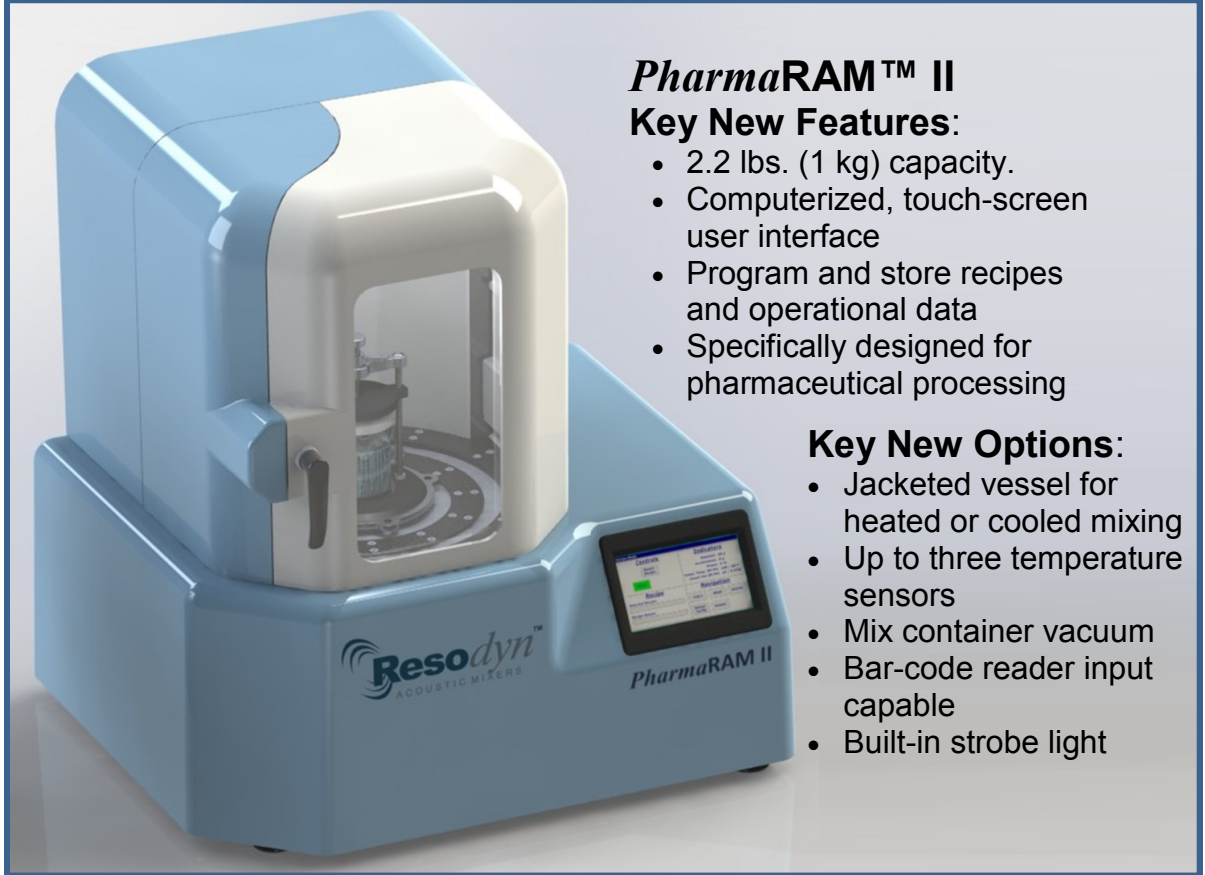
Formulations



Topicals



Capsules



PharmaRAM™ II

Key New Features:

- 2.2 lbs. (1 kg) capacity.
- Computerized, touch-screen user interface
- Program and store recipes and operational data
- Specifically designed for pharmaceutical processing

Key New Options:

- Jacketed vessel for heated or cooled mixing
- Up to three temperature sensors
- Mix container vacuum
- Bar-code reader input capable
- Built-in strobe light

Innovative Second Generation Technology

Designed for improved mixing that is faster, cleaner, and safer, the **PharmaRAM™ II** introduces significant benefits of *ResonantAcoustic® Mixing (RAM)* technology at a 2.2 lbs. (1 kg) scale. Pharmaceutical formulations and compounded medicines processing can achieve higher quality and lower cost. The **PharmaRAM™ II** is well suited for mixing of liquids and powders, as well as pastes, creams, and ointments.

Exceptional RSD Results

Since being introduced in 2007, RAM mixers have become the processing technology of choice at many developmental, formulating, and production facilities. A primary reason is RAM's ability to consistently achieve less than 4%, even less than 2%, relative standard deviation (RSD) across a wide range of excipients and API combinations. *(Please see the RSD Mix Test Results chart on reverse side.)*

The advanced design features incorporated into the **PharmaRAM™ II** reflect design and operational considerations from many *ResonantAcoustic® Mixing* users in compounding and pharmaceutical communities.

PharmaRAM™ II utilizes low-frequency, high-intensity acoustic energy to rapidly fluidize and disperse material. **PharmaRAM™ II** is a non-contact mixing technology; completely and uniformly mixing without the use of impellers, blades, or wands.



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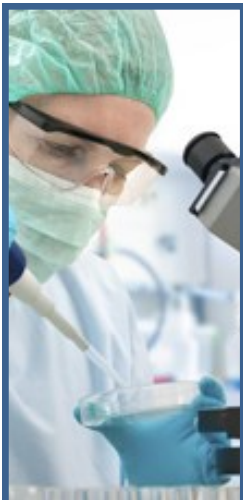
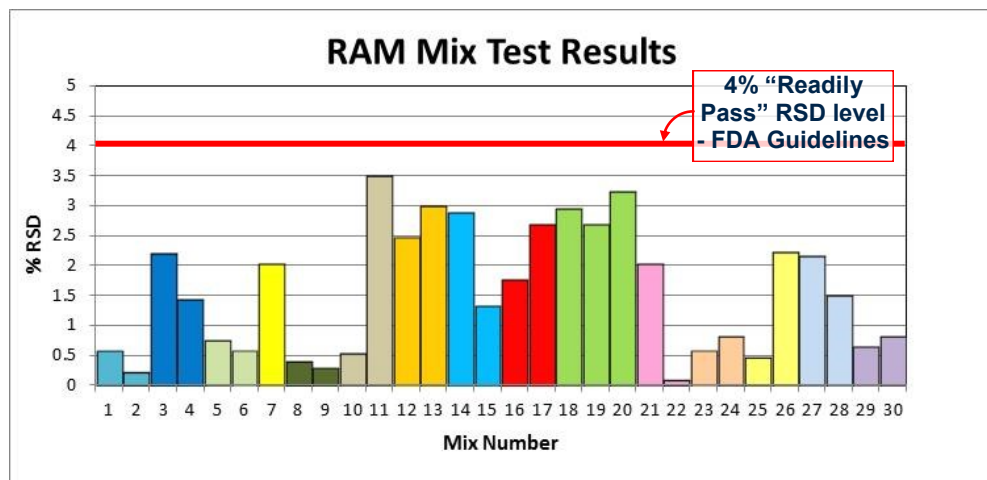
PharmaRAM™ II



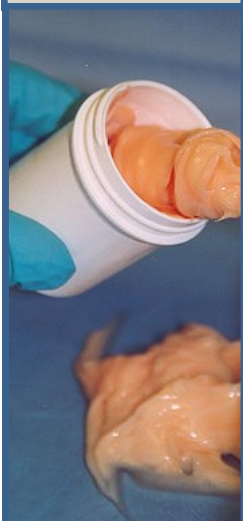
the way you think about formulating pharmaceuticals

ResonantAcoustic® Mixing delivers exceptional, highly repeatable RSD results

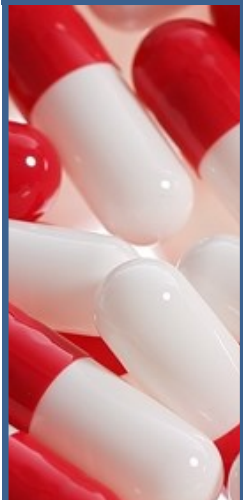
30 common API/excipient mixes tested achieved <4% RSD requirement in under 2 minutes of mixing time



Formulations



Topicals



Capsules

Benefits

- Eliminate manual mixing variability
- Programmed operation for repeatable results
- Superior potency through content uniformity
- Rapid mixing reduces processing time
- Sealed mixing vessel enhances safety
- Automatic operation reduces repetitive motion
- No cross contamination with single use vessel
- Easy to use, menu-based program control
- Vacuum option degasses, virtually eliminating air entrainment

Specifications

- Mix Weight up to 2.2 pounds (1 kg)
- Mix Volume up to 34 fl. oz. (1 L)
- Up to 100 g acceleration (981 m/sec²)
- Computerized, touch-screen user interface
- Mixer Weight: 260 pounds (118 kg)
- Mixer Size (inch/cm): 32" (82 cm) W, 30" (76 cm) D 33" (83.8 cm) H
- Bar-code reader input capable
- 110/220 VAC, 50/60 Hz
- CE Certified





Processing Technology of Choice for Drug Development, Compounding, and Manufacturing

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Other products include:
PharmaRAM II GMP Mixer,
RAM 5 and RAM 55
Production Mixers

