

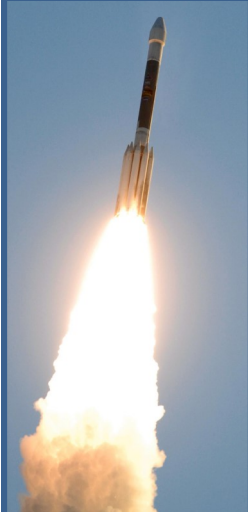


LabRAM™ II H

Second Generation Mixing
Technology of Choice for
Energetics Mixing



PYROTECHNICS



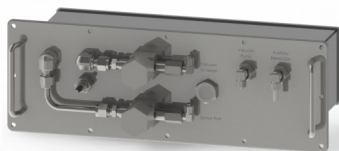
PROPELLANTS



MUNITIONS

The industry standard in hazardous and energetic development and processing

- Class I Div I Class II Div I
- Vacuum System



• Jacketed
Vessel

• Remote
Operation



Resodyn Acoustic Mixers' hazardous location mixer, specifically designed for mixing of energetic materials. significant benefits to all developers and processors for both applications. The world's most demanding customers rely on ResonantAcoustic® Mixers technology for high quality and low cost processing of hazardous materials.

the LabRAM™ II H is
The LabRAM™ II H introduces
government and defense
technology for high

Mixing and Processing Technology of Choice

Since its introduction to the energetics marketplace in 2007, ResonantAcoustic® Mixers have become the processing technology of choice at many government and commercial facilities. The technology allows users to employ intense, low-frequency acoustic mixing at up to 100g's of acceleration, without the several inherent issues associated with the use of conventional mixing. The advanced design features incorporated into the LabRAM™ II H reflect design and operational considerations recommended to Resodyn by experts in the energetics community over the past several years.

Integrated Component Design

The LabRAM™ II H system integrates all electronic, power, accessory, hardware and analytical tools onboard, operated from a central, remote control panel. The LabRAM™ II H is fully functional with or without an optional acoustic housing (not shown). All enclosure and housing materials are 304L stainless steel.

Innovative New Features and Options

The LabRAM™ II H responds robustly to energetic users' dynamic and demanding requirements:

- Up to 2.2 pounds/1,000 gram capacity
- Designed and produced to be eligible for Class I Div I and Class II Div I Groups C-G environments
- Remotely mounted Purge and Pressurization System
- Jacketed Vessel for material temperature control 302°F / 150°C heating to 0°F / -18°C cooling (optional)
- Temperature sensor - 316L resistance temperature detectors (RTDs) with m12 connector (optional)
- Automatic or Programmable Mix Vacuum before, during, and after the processing/mixing cycle (optional)
- Remote control panel operations up to 25 miles
- Onboard programmable control of mixing operations and permanent recording of operations and measured results
- Sealed, hazardous rated, SS 304 mixing platform prevents entry of mixing materials into the enclosure
- Laptop-based human machine interface available
- Redundant ground paths mitigate static charge build-up



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LabRAM™ II H Specifications

Item	Description	LabRAM™ II H
1	Maximum Payload Capacity	2.2 lbs.
2	Enclosure Material	304L Stainless Steel
3	Sealed Enclosure	Yes
4	Sound Emitted	<70 dB at 3'
5	Purged Enclosure	Yes
6	Enclosure Ground	Yes
7	Resonator Grounded	Yes
8	Payload Fixture Grounded	Yes
9	Vessel Temperature Monitoring	2 RTD's monitored and recorded
10	Automatic/Programmable Vacuum	Yes
11	Data Logging	Yes
12	Remote Operation	Yes
13	Class I Div 1 Ratable	Yes
14	Class II Div 1 Ratable	Yes
15	Recommended for use in Hazardous environment	Yes
16	Onboard Programmable Control and Recording	Yes
17	Weight	350 lbs / 400 lb with enclosure (159 kg / 182 kg with enclosure)
18	Dimensions (Resonator) approximate clearance, including RTD and Vacuum line Bridge	35" W x 27" D x 28" H (0.89 m x 0.69 m x 0.71 m)
19	LabRAM II H Remote Box Clearance (width x depth x height)	13.5" x 12" x 8" (0.35 m x 0.31 m x 0.21 m)
20	Purge & Pressure Control Unit	9" x 6.5" x 14.5" (0.23 m x 0.16 m x 0.37 m)
21	Electrical @ 50/60 Hz, CE Certified	100-120 VAC / 200-240 VAC
22	Purge Air	20-120 psi (1.4-8.3 bar) at 12 SCFM (240 l/min)
23	Cooling Fluid	0.5 gpm (2 l/min) at 60°F (15.5°C) at 0-15 psi (0-1 bar)

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