

REFRIGERATED TISSUE HOMOGENIZER



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ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

KEY FEATURES:

- **Versatile Grinding Options:** Suitable for dry grinding, wet grinding and homogenization of samples.
- **High Throughput:** Capable of processing up to 192 samples simultaneously, ensuring quick and efficient sample preparation.
- **Adaptable Sample Sizes:** Compatible with a range of adapters (0.5ml, 2ml, 5ml, 10ml, 15ml, 30ml and 50ml) for various sample volumes.
- **Wide Sample Compatibility:** Perfect for grinding and crushing a wide range of plant tissues—including roots, stems, leaves, flowers, fruits, and seeds—as well as diverse animal tissues such as brain, heart, liver, kidneys, muscles, and bones etc. From delicate thymus and lymph nodes to robust plant samples, it handles it all with ease. Ideal for precise analysis and detection of food and drug ingredients, making it an essential tool for diverse laboratory applications.
- **Cross-Contamination Prevention:** Enclosed disposable centrifugal tubes ensure sample integrity by preventing cross-contamination.
- **Low-temperature freezing table:** Designed to support various low-temperature experiments, including sample storage, electrophoresis, and membrane transfer, ensuring precise and reliable results.
- **consistent repeatability:** The experiment ensures consistent repeatability, delivering the same precise grinding results each time by simply setting the same grinding frequency and duration.

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The IG-III RHM is a high-speed, low-temperature tissue grinding instrument designed to operate in environments as cold as -50°C. Utilizing a vertical vibration system, it ensures efficient sample processing by causing grinding beads and frozen samples to collide, creating shear and impact forces for thorough tissue homogenization. It is ideal for research institutions, universities, agricultural colleges, biomedical labs, and food testing facilities that require rapid, one-time processing of multiple samples.

KEY FEATURES:

- **Temperature Control:** Maintains a temperature range from -50°C to room temperature, with precision control of $\pm 1^\circ\text{C}$.
- **Swift refrigeration:** Quickly lowers the temperature below 0°C after startup, ensuring effective sample preservation and minimizing degradation. This enables consistent low-temperature grinding, reducing the breakdown of proteins and RNA.
- **Emergency stop button:** Instantly halts the grinding process at any time, ensuring quick and safe operation.
- **Electromagnetic safety lock:** Includes an electromagnetic safety lock that ensures the lid remains secure during operation, providing protection throughout the grinding process.
- **Optimized Grinding:** The vertical shaking system moves back and forth at high speed for optimized grinding.
- **Preset programs:** Pre-programmed with 10 sets of common tissue grinding parameters, ensuring optimal grinding conditions for various specimens.

SPECIFICATIONS

Specification	Details
Model	IG-III RHM
Process Capacity	Up to 192 samples can be processed simultaneously
Adapters	Multiple adapters are available
Lowest Cooling Temperature	-50°C
Operating Mode	The vertical shaking system moves back and forth at high speed
Temperature range	-50°C to room temperature
Homogenizing frequency	0-70 Hz
Max. Speed (rpm)	2100 rpm
Preset Programs	10
Temperature Control Precision	±1°C
Standard Specification	24 x 2 mL
Adapter Specification (Optional)	A) 24x0.5mL, 24x2mL, 48x2mL B) 32x2mL, 60x2mL, 96x2mL C) 12x5mL, 10x10mL, 4x30mL (steel can) D) 6x5mL (steel can), 8x15mL (steel can) E) 2x50mL (steel can), 96-well plate x2x0.2mL F) 8x50mL/8x15mL
Freezing Table	Yes
Adapter Fixing Method	Nut
Working Time	0-99min99s
Emergency Stop Button	Yes
Electromagnetic Safety Lock	Screen click control with automatic power-off unlocking
Maximum Feeding Size	No requirements, adjustable according to the adapter
Cooling Method	Compressor cooling
Transport Screws	Yes (2 at the bottom)
Advantages	Lower cooling temperature can reach -50°C; low temperature freezing table. Protects samples and meets low-temperature needs for Western Blot experiments, electrophoresis, and transfer membranes.
Noise	<65dB
Power	500W
External Dimensions (LxBxH)	565x380x425 mm
Inner chamber dimensions (LxBxH)	200x200x160 mm
Freeze table dimensions (LxBxH)	245x280x100 mm
Power supply	AC220V, <6A



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