

## Homogenizer



**Model : YR413**  
**Homogenizer**  
**Manufacturer : Kalstein**

**Price : \$ 17,500.00**

### Description :

A homogenizer is a very important part of any laboratory. This instrument is used for the homogenization of various types of material, such as tissue, plant, food, soil, and many others. This process is accomplished by turning one of the liquids into a state consisting of extremely small particles distributed uniformly throughout the other liquid.

### Homogenizer function

YR413 model is your solution for sample preparation and cell lysis. This is the reliable, fast and high-throughput homogenizer to extract DNA, RNA or proteins from animal, human and plant tissues, microorganisms, spores, bones, among others. Grind and homogenize a large range of biological samples, compatible with any analysis DNA-RNA Electrophoresis, Liquid Chromatography, Western Blot, etc.

### Homogenizer machine

This model can accomplish fast, effective and reproducible homogenization of a wide range of samples, including tissues and cells hard to lyse. It also owns extraordinary power for the processing of even impact resistant samples such as bones or cartilage. The YR413 is an ideal solution for releasing DNA, RNA, Proteins, Enzymes, from very tough samples while retaining molecular integrity.

Using disposable sample tubes pre-filled with a variety of lysing beads, the YR413

vigorously and uniformly shakes the tubes providing an efficient, consistent, high-yield and quality homogenization usually in less than 35 seconds.

Know some of the typical samples that goes through this homogenizer:

- Animal, Plant, Human cells.
- Micro-organisms.
- Drugs, polymers, lotions, etc.
- Soil and sediments.
- Swabs and feces.
- Bone, brain, tumors.
- Bacterial gram + or -.
- Yeast, fungi, spores.
- Seeds, roots.
- Feces, swabs.

## Homogenizer

About the applications, any researcher who requires genomic DNA, RNA or recombinant protein as a starting material will benefit from the unit system.

- Northern blot analysis, qPCR and microarrays.
- Optimization of recombinant protein expression.
- Library synthesis and Southern blots.
- Pathogen screening of soil or water.
- RT-PCR and differential display.
- Environmental surveys.
- Verification of food safety.

This homogenizer machine also features a "3D Rotating High Speed Motion" for quick disruption of those fibrous tissues and resistant cells

Fifty programmable memory settings and user optional condition settings

In addition, a wide range of rotation speed settings from 4 to 7 m/s, increment 0.05m/s

This model runs with a brushless motor realizing no brush particle generation

It is easy to remove the sample tube holder and fix sample tubes. Moreover, it is easy to monitor the disruption process through the clear lid. Besides, this machine simultaneously homogenizes 6\*2ml tubes or 2\*5ml tubes and 24\*2ml tubes or 12\*5ml tubes. In addition, its disposable tubes ensure no threat of cross-contamination or sample degradation. Finally, the YR413 vigorously and uniformly shakes the tubes providing an efficient, consistent, high yield and quality homogenization usually in 35 seconds or less.

Product Model: YR413.

Product Name: Homogenizer.

YR413 is your solution for sample preparation and cell lysis. The reliable, fast and high-throughput homogenizer to extract DNA, RNA or proteins from animal, human and plant tissues, micro-organisms, spores, bones, etc.

Grind and homogenize a large range of biological samples, compatible with any analysis DNA-RNA Electrophoresis, Liquid Chromatography, Western Blot etc.

## Homogenizer

### Product Information

Fast, effective and reproducible homogenization of a wide range of samples, including tissues and cells hard to lyse. It also owns extraordinary power for the processing of even impact resistant samples such as bones or cartilage. The YR413 is an ideal solution for releasing DNA, RNA, Proteins, Enzymes, etc. from very tough samples while still retaining molecular integrity.

### Typical Samples

- Animal, Plant, Human cells.
- Micro-organisms.
- Drugs, polymers, lotions, etc.
- Soil and sediments.
- Swabs and feces.
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### Applications

- Any researcher who requires genomic DNA, RNA or recombinant protein as a starting material will benefit from the unit system.
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### Features

- "3D Rotating High Speed Motion" for quick disruption of those fibrous tissues and resistant cells.
- 50 programmable memory settings and user optional condition settings.
- A wide range of rotation speed settings from 4 to 7 m/s, increment 0.05m/s.
- Brushless motor realizing no brush particle generation.
- Easy to remove sample tube holder and fix sample tubes.
- Easy to monitor the disruption process through the clear lid.
- Simultaneously homogenize:
  - 6\*2ml tubes or 2\*5ml tubes.

## Homogenizer

- 24\*2ml tubes or 12\*5ml tubes.
- Disposable tubes ensure no threat of cross-contamination or sample degradation.
- The YR413 vigorously and uniformly shakes the tubes providing an efficient, consistent, highyield and quality homogenization usually in 35s or less.

Parameters by Models

## Homogenizer

### Homogenizer

<b>Model:</b>	YR413
<b>Display</b>	OLED
<b>Speed Range(m/s)</b>	4.00m/s-7.00m/s, increment 0.05m/s
<b>Speed Range (rpm)</b>	2430rpm -- 4260rpm, increment 10rpm
<b>Cycle Duration</b>	1s -- 90s, increment 1s
<b>Pause time</b>	1s -- 120s, increment 1s
<b>Cycle</b>	10
<b>Programmable</b>	50
<b>Samples</b>	24 x 2ml/1.5ml/0.5ml or 12 x 5ml grinding tube
<b>Acceleration Time</b>	<4s
<b>Deceleration Time</b>	<4s
<b>Noise</b>	<70 db
<b>Power</b>	500W
<b>Dimensions (W×D×H)</b>	280×360×385 mm
<b>Weight (kg)</b>	25.0 kg
<b>Power Supply</b>	AC100~240V, 50/60Hz