

NEW

# In vitro shaker 2 Mix-EVR2/VR2

**Compact sized and easy to use for bench tops and inside refrigerators. Especially designed for fine and intense shaking. Various options enable high performance in Mixing and Extraction.**

•High-end model with improved uniformity and stability --> P.063 •CO<sub>2</sub> Incubators that can be inside this unit --> P.154-156

## Features

- High-speed orbital shaking [VR2]
- Intense shaking, like Vortex mixer [EVR2]
- Can be used even inside refrigerators with 4°C [All models]
- Digital display and settings are standardized, Optional functions are also available [VR2/EVR2]



Mix-EVR2

4 pcs of well plates can be fixed in standard



## Applications

- 6 to 24-hole plates or Thickly test tubes, etc. [VR2]
- Stirring of Microtubes, 96-hole plates, Vials, etc. [EVR2]
- Dissolution, Extraction, Mixing [All models], ELISA, and Cultivation [EVR2]



Mix-VR2

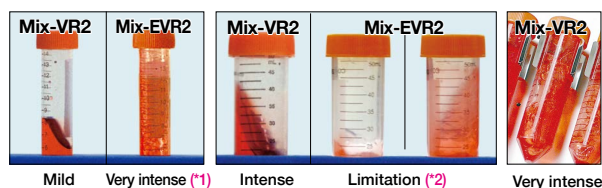
Optional shaking platform not included



Model	Mix-EVR2	Mix-VR2
Shaking motion	Horizontal eccentric shaking	Orbital shaking
Shaking speed/width	250 to 2500 r/min (*1), 2 mm	50 to 500 r/min (*1), 10 mm
Platform dimensions	- (*2)	300 × 200 mm
Ambient temp. range	0°C to +50°C	
Maximum load	Approx. 2 kg (Optional platform and vessel holders are not included.)	
Speed display/Setting	Digital display/Input	
Option① Timer operation function	Available as option •Timer mode (1 min to 99 h 59 min) *When the timer function is not being used, it can count the time. •ON-OFF •OFF-ON •ON-OFF-ON (Repeat)	
Option② Transmission output	Available as an optional •Additional transmission output (1-5V) terminal	
Safety devices/functions	Current limiter, Internal overheat detection, Fuse	
Dimensions (WxDxH)	300 × 235 × 152 mm	300 × 235 × 149 mm
Weight	Approx. 6.5 kg	Approx. 12.2 kg
Power supply	AC100V-240V/0.5A (universal power supply)	

(\*1)The maximum value may not be met depending on the optional platforms and vessels. (\*2)Equipped with platform for 4 pcs of well plate as standard. Optional shaking platform can be used by replacing the base.

## The stirring forces of Mix-VR2 and Mix-EVR2



(\*1)The stirring can be suppressed so that the samples do not stick to the lid depending on the speed and liquid volume.  
 (\*2)The sticking to the lid cannot be prevented at "Very intense" near the max speed.

	Suitable Well plates and Microtubes		
<b>Mix-VR2</b>	6 well (Up to 200 r/min)	12 well (Up to 300 r/min)	24 well (Up to 400 r/min)
<b>Mix-EVR2</b>	96 well (Up to 1000 r/min)	96 well DWP (Up to 2000 r/min)	0.5 to 2 mL Microtube

Directions of vessels	Vertical		Horizontal	
Size of Vessels	Diameter		Length	
	Above φ20 mm	Below φ20 mm	110 to 240 mm	Below 110 mm
<b>Mix-VR2</b>	Intense	Mild (Less than 20% Liquid volume)	Slightly intense	Very intense
<b>Mix-EVR2</b>	Limitation	Very intense	Unsuitable	Slightly intense

## USER'S VOICE

It is important to know the features and specs in order to use it well.



# Additional optional functions (For VR2/EVR2)

## Option①: Timer operation function

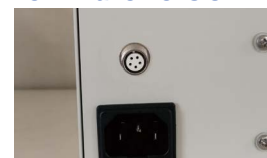
The shaker can be "stopped" by turning it ON-OFF after the set time has elapsed and "started" by turning it OFF-ON. In addition, the operation can be "stopped and started repeatedly" by pressing ON-OFF-ON, thus preventing sedimentation of samples in the vessel and enabling work to proceed when the user is absent, such as after returning home or doing other work. While the timer operation function is not used, it can count the time.



Mix-EVR2 + Option①

## Option②: Transmission output terminal extension

Attach a female terminal on the back of the main unit that can be connected to a recorder, etc. From the terminal, the signal 1 to 5 [V] is output, which is corresponding respectively to the speed display of 0 to 2500 [r/min] for Mix-EVR2 and 0 to 500 [r/min] for Mix-VR2. Since it can be connected to a recorder, etc., it is recommended for customers who need to record the operation of equipment used in the work process.



A connector for connection is included. Connect to the signal wiring (AWG22 to 24) from the target device.

# Optional shaking platform

## Sticky sheet (VR2/EVR2)

A non-slip sheet that used placing on the platform. Adhesion that is weakened with dust and dirt can be recovered by washing with water.



Model	ST-2030
Applicable models	<b>Mix-VR2/EVR2</b> (VR standard platform required in EVR2/EVR) (*)
Dimension	195 × 295 × 2H mm

(\*) Up to 100 r/min in VR2 and only Tray or Dishes in EVR2.

## Spring net shaking platform (VR2)

This enables various shaped vessels to be fixed on the platform. Spring net can be added with SP2030 (see P.069).



Model	MR-2030
Applicable models	<b>Mix-VR2</b> (Below 350 mm/min)
Dimension/ Capacity	200 × 300 × 95H mm Up to 24 pcs when 50 mL Disposable centrifuge tube.

## Microtube rack (EVR2)

Equipped with a non-slip foot to make it easy to use as a Lab top tube stand. Two types are available.



Model	EM-0524
Applicable models	<b>Mix-EVR2</b> Vessels/Capacity 0.5 mL × 24
Model	EM-1524
Applicable models	<b>Mix-EVR2</b> Vessels/Capacity 1.5 mL × 24

## Universal shaking platform (VR2)

Clamps for Erlenmeyer flask and Horizontal clamps for Centrifuge tubes are to be fixed on the platform.



Model	MT-2030
Applicable models/Dimension	<b>Mix-VR2</b> , 200 × 300 × 23H mm

## Clamp for Erlenmeyer flask (VR2)

Mounted on MT-2030 for use.

Model	CF-0100	CF-0250	CF-0300	CF-0500
Vessels/Capacity	100 mL × 12	250 mL × 6	300 mL × 6	500 mL × 3

## Tilted clamp shaking platform (VR2/EVR2)

This is for Centrifuge tubes. Remove the standard platform to replace it.



Model	ML-2030
Applicable models/ Dimension	<b>Mix-VR2/EVR2</b> , 256 × 300 × 30H mm, Angle 5°

## Vertical holding shaking platform (VR2/EVR2)

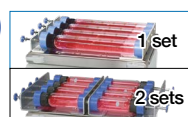
This is for Test tube rack and Shaking platforms for Test tubes/Centrifuge tubes. Remove the standard platform to replace it.



Model	ER-2300
Applicable models/ Dimension	<b>Mix-VR2/EVR2</b> , 180 (Inside dimension) × 201 × 27H mm

## Horizontal clamp for Centrifuge tube (VR2)

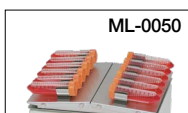
This securely holds the Centrifuge tube, Stoppered test tube, or Water-compliant 100 mL Color comparison tube. Optimal for Extraction experiment. Mounted on MT-2030 for use.



Model	AT-0004
Vessels Diameter	10 to 37 mm, 4 pcs in 1 set
Capacity	With 1 set: Vessels with 75 to 240 mm in length such as 100 mL Color comparison tube. With 2 sets: Vessels with 75 to 110 mm in length such as 50 mL Centrifuge tube.

## Tilted clamps for Centrifuge tubes (VR2/EVR2)

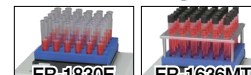
Holders that strongly stir Disposable centrifuge tubes. The stirring effect can be obtained with large volumes of liquid even though the MT-2030 has a 5° angle.



Model	ML-0015
Applicable models	<b>Mix-EVR2</b> Capacity Vessels with φ16.5 to 20 mm and approx. 150 mm in length (15 mL Disposal centrifuge tubes) × 20 pcs
Model	ML-0050
Applicable models	<b>Mix-VR2</b> Capacity Vessels with φ28 to 35 mm and approx. 150 mm in length (50 mL Disposal centrifuge tubes) × 12 pcs

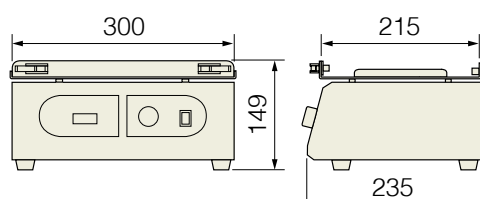
## Test tube rack and Rack for Test tube/Centrifuge tube

Racks that stir Test tubes and Centrifuge tubes vertically. Recommended to make the liquid volume less than 50%.



Model	ER-1830E	ER-1636MT	50 mL Centrifuge tube rack
Applicable models	<b>Mix-EVR2</b>	<b>Mix-EVR2</b>	<b>Mix-VR2</b>
Capacity	φ18 mm Test tube × 30	φ16.5 mm Test tube or Disposable Centrifuge tube for 15 mL × 36	Disposable Centrifuge tube for 50 mL × 16

## Dimensions Mix-VR2



## Dimensions Mix-EVR2

