

# In vitro shaker Mix-VR/EVR

**Compact sized 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 temperature control function and improved uniformity and stability --> P.053 CO<sub>2</sub> Incubators that can be inside this unit --> P.138-140



Mix-VR

Mix-EVR  
(4 x Well plates can be mounted in the standard)

Each above not a mounted with the shaking platform.

## Features

- High-speed orbital shaking [VR]
- Intense shaking, like Vortex mixer [EVR]
- Enable to use even inside refrigerators with 4°C [All models]

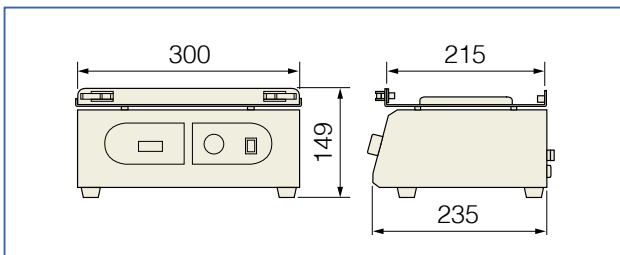
## Applications

- 6 to 24-hole plates or Thickly test tubes etc. [VR]
- Stirring of Microtubes, 96-hole plates, Vial etc. [EVR]
- Dissolution, Extraction, Mixing [All models], ELISA, Cultivation [EVR]

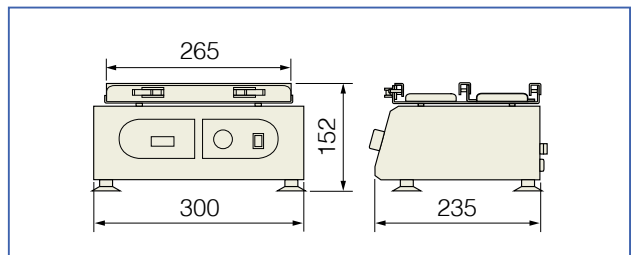
Model	Mix-VR	Mix-EVR
Shaking motion	Orbital shaking	Horizontal eccentric shaking
Shaking speed	50 to 500r/min (*1)	250 to 2500r/min (*1)
Platform dimensions	300 x 200mm	- (*2)
Ambient temp. range	0°C to 50°C	
Maximum load	Approx. 2kg (Optional platform and vessel holders not included)	
Shaking speed display	Digitally (Standard)	Digitally (Option)
Safety devices/functions	Motor protection circuit at overload, Fuse	
Dimensions (W x D x H)/Weight	300 x 235 x 149mm, Approx. 12.2kg	300 x 235 x 152mm, Approx. 6.5kg
Power supply	AC100 to 240V/0.5A	

(\*1) The maximum value might not be meet depending optional platforms and vessels. (\*2) Equipped with platform for 4pcs of well plate as standard.

### Dimensions Mix-VR



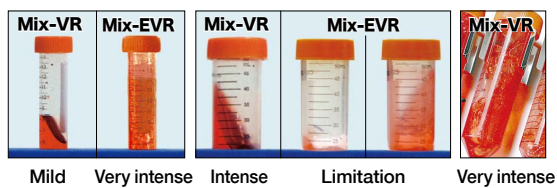
### Dimensions Mix-EVR



### The stirring forces of Mix-VR and Mix-EVR

Directions of vessels	Vertical		Horizontal	
	Diameter		Length	
Size of Vessels	Above φ20mm	Below φ20mm	110 to 240mm	Below 110mm
	Mix-VR	Mild (Less than 20% Liquid volume)	Slightly intense	Very intense
Mix-EVR	Limitation	Very intense	Unsuitable	Slightly intense

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



(\*1) The stirring can be suppressed that the samples not stick to the lid depending the speed and liquid volume.

(\*2) The sticking to the lid cannot be prevented at "Very intense" near the max speed.

### USER'S VOICE

The important is to know the features and specs to use it well



Selection guide  
Constant temperature incubator shaker  
CO<sub>2</sub> incubator shaker  
Shaker  
Mixer  
Rotator  
Stirrer  
Bead beater  
Ultrasonic homogenizer  
Aluminum block bath  
Minimize bath  
Water bath  
Shaking water bath  
Immersion cooler  
Hybridization oven  
Constant temperature chamber  
Centrifugal concentrator  
Cold trap  
Freeze dryer  
Electrophoresis and blotting apparatus  
Constant temperature water circulating system [Chiller]  
Appendix

# Example of Optional shaking platform in combination

Mix-VR					
Plastic containers or Dishes	50mL Disposal centrifuge tubes	250mL Erlenmeyer flasks	100mL Color comparison tubes	50mL Disposal centrifuge tubes for Hard	50mL Disposal centrifuge tubes
Stick sheet ST-2030	Spring net shaking platform MR-2030	Universal shaking platform MT-2030	Universal shaking platform MT-2030	Universal shaking platform MT-2030	Tilted clamp shaking platform ML-2030
-	-	Clamp for Erlenmeyer flask CF-0250x6	Horizontal clamp for Centrifuge tube AT-0004	Horizontal clamp for Centrifuge tube AT-0004x2	Tilted clamp for Centrifuge tubes Clamps ML-0050

Mix-VR	Mix-EVR (with Speed display)				
50mL Disposal centrifuge tubes	1.5mL Microtubes	φ18mm Test tubes	φ16.5mm Test tubes	Disposable Centrifuge tubes for 15 mL	Plastic containers or Dishes
Vertical holding shaking platform ER-2300	Microtube rack EM-1524x4	Vertical holding shaking platform ER-2300	Vertical holding shaking platform ER-2300	Tilted shaking platform ML-2030	VR standard shaking platform
50mL Centrifuge tube rack	-	Test tube rack ER-1830E	Test tube/Centrifuge tube rack ER-1636MT	Tilted clamps for Centrifuge tubes ML-0015	Stick sheet ST-2030

## Stick sheet (VR/EVR)

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

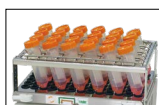


<b>Model</b>	<b>ST-2030</b>
Applicable models	Mix-VR/EVR (VR standard platform required in EVR (*))
Dimension	195x295x2Hmm

(\*Up to 100r/min in VR and only Tray or Dishes in EVR.

## Spring net shaking platform (VR)

This enables various shaped vessels being fixed on the platform. Spring net can be added by SP2030.



<b>Model</b>	<b>MR-2030</b>
Applicable models	Mix-VR (Below 350r/min)
Dimension/ Capacity	200x300x95Hmm Up to 24pcs when 50mL Disposable centrifuge tube.

## Microtube rack (EVR)

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



<b>Model</b>	<b>EM-0524</b>	<b>EM-1524</b>
Applicable models	Mix-EVR	Vessels/Capacity
		0.5mLx24
Applicable models	Mix-EVR	Vessels/Capacity
		1.5mLx24

## Universal shaking platform (VR)

This is for Clamps for Erlenmeyer flask and Horizontal clamps for Centrifuge tubes be fixed on the platform.



<b>Model</b>	<b>MT-2030</b>
Applicable models/ Dimension	Mix-VR, 200x300x23Hmm

## Clamp for Erlenmeyer flask (VR) Mounted on MT-2030 for use.

<b>Model</b>	<b>CF-0100</b>	<b>CF-0250</b>	<b>CF-0300</b>	<b>CF-0500</b>
Vessels/Capacity	100mL x 12	250mL x 6	300mL x 6	500mL x 3

## Tilted clamp shaking platform (VR/EVR)

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



<b>Model</b>	<b>ML-2030</b>
Applicable models/ Dimension	Mix-VR/EVR, 256x300x30Hmm, Angle 5°

## Vertical holding shaking platform (VR/EVR)

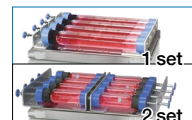
This is for Test tube rack and Shaking platforms for Test tubes/Centrifuge tubes. Remove the standard platform to replace it.



<b>Model</b>	<b>ER-2300</b>
Applicable models/ Dimension	Mix-VR/EVR, 180 (Inside dimension)x201x27Hmm

## Horizontal clamp for Centrifuge tube (VR)

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



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

## Tilted clamps for Centrifuge tubes (VR/EVR)

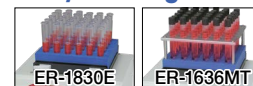
Holders that stir mainly Disposable centrifuge tubes strongly. The stirring effect can be obtained even liquid volume large as ML-2030 has a 5° angle.



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

## 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%.



<b>Model</b>	<b>ER-1830E</b>	<b>ER-1636MT</b>	<b>50mL Centrifuge tube rack</b>
Applicable models	Mix-EVR	Mix-EVR	Mix-VR
Capacity	φ18mm Test tube x 30	φ16.5mm Test tube or Disposable Centrifuge tube for 15 mL x 36	Disposable Centrifuge tube for 50 mL x 16

(\*Made to Order product. We gladly manufacture other racks for such as Vials.

We contribute to the development of research and industry.  
[ 2019-2020 General Catalog ] **TATEC**

● Protuberances not included in Dimensions. ● Vessels of photo not included.

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homogenizer  
Ultrasonic homogenizer  
Aluminum block bath  
Minimize bath  
Water bath  
Shaking water bath  
Immersion cooler  
Hybridization oven  
Constant temperature chamber  
Centrifugal concentrator  
Cold trap  
Freeze dryer  
Electrophoresis and Blotting apparatus  
Constant temperature water circulating system (Chiller)  
Appendix