

# Rocking Shaker

## Simple Adjustments for Rocking Speed

WIGGENS Rocking Shaker is innovatively designed for use in a wide range of lab applications. WS-350R provides controlled seesaw-like motion, while the Shakers offer a smooth, low-foaming, 3D wave motion. Each unit includes a dimpled mat and universal harness

It can be used in the incubator because the unit is designed for ambient temperature between 2 °C and 50°C

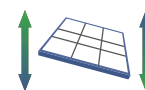
## Your advantages

- > Working speeds range from 5rpm to 100rpm
- > Bright TFT with display resolution 1rpm, easy to operate with the knob and control keys
- > Tilt Angle ranges from 7° to 13°
- > Smooth Starting function to protect sample spilling out
- > Users can set the timer from 1 min to 99 hour 59 min, with the count-down timer.
- > BLDC motor provides low noise and strong durability
- > During overload situation, it shows overload sign, make alarm and stop the running



## Application

Mixing blood samples, DNA extractions, blotting techniques, staining and destaining gels, hybridizations



## Specifications

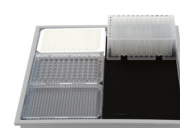
Model		WS-350R
Shaking System	Speed range(rpm)	5~ 100
	Speed control type	Feedback Control
	Tilt Angle	Easy adjustable from 7° to 13°
	Timer	1min to 99 hrs 59 min, Count-down time
Safety device	Over current protection	
Max. Load including attachment (kg)	5	
Motor type	BLDC motor	
Control panel	TFT, touch keys and the control knob	
Dimension	Overall Dimension (W×D×H, mm)	276 x 343 x 150
	Tray dimension (W x D, mm)	276x 276
	Net Weight (kg)	6.9
Materials	PP, PET, Powder coated steel (Housing)	
Electrical requirement	100 ~ 240VAC, 50 / 60 Hz	
Order No.	W5011001	

## Accessories

Order No.	Part	Description
W5011101	Removable tray (Standard)	Included tray, silicon mate and universal harness (6ea)
W5011102	Removable tray	Included tray, rubber mat and universal harness (6ea)
W5011201	Tray	Tray only
W5011202	Rubber mat	Rubber mat
W5011203	Dimpled mat	Dimpled mat
W5011204	Universal harness, 6ea	Universal harness, 6ea



W5011101



W5011102

# Waving Shaker

## Simple Adjustments for Tilt Angle and Speed

WIGGENS Waving Shaker is innovatively designed for use in a wide range of lab applications. WS-350W provides controlled orbital motion, while the Shakers offer a smooth, low-foaming, 3D wave motion. Each unit includes a dimpled mat and universal harness. It can be used in the incubator because the unit is designed for ambient temperature between 2 °C and 50°C.

### Your advantages

- > Working speeds range from 8rpm to 100rpm
- > Bright TFT with display resolution 1rpm, easy to operate with the knob and control keys
- > Tilt Angle ranges from 0° to 13°
- > Smooth starting function to protect sample from spilling out
- > Users can set the timer from 1 min to 99 hour 59 min, with the count-down timer.
- > BLDC motor provides low noise and strong durability
- > During overload situation, it shows overload sign, make alarm and stop the running



### Application

Mixing blood samples, DNA extractions, blotting techniques, staining and destaining gels, hybridizations



### Specifications

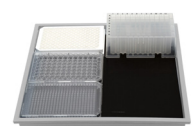
Model		WS-350W
Shaking System	Speed range(rpm)	8~ 100
	Speed control type	Feedback Control
	Tilt Angle	Easy adjustable from 0° to 13°
	Timer	1min to 99 hrs 59 min, Count-down time
Safety device	Over current protection	
Max. Load including attachment (kg)	5	
Motor type	BLDC motor	
Control panel	TFT, touch keys and the control knob	
Dimension	Overall Dimension (W×D×H, mm)	276 x 343 x 150
	Tray dimension (W x D, mm)	276x 276
	Net Weight (kg)	7.3
Materials	PP, PET, Powder coated steel (Housing)	
Electrical requirement	100 ~ 240VAC, 50 / 60 Hz	
Order No.	W5011002	

### Accessories

Order No.	Part	Description
W5011101	Removable tray (Standard)	Included tray, silicon mate and universal harness (6ea)
W5011102	Removable tray	Included tray, rubber mat and universal harness (6ea)
W5011201	Tray	Tray only
W5011202	Rubber mat	Rubber mat
W5011203	Dimpled mat	Dimpled mat
W5011204	Universal harness, 6ea	Universal harness, 6ea



W5011101



W5011102

# Microplate Shaker

## Suitable for Microplate, Micro-tube and Conical tube

The microplate shaker is driven by brushless DC motor. It is mainly used in the mixed oscillation of enzyme label plate (96-well / 384-well plate), cell culture plate (24-well plate, 48-well plate, 96-well plate), micro tube and conical tube. It can be used in immunoassays, staining and other experiments. It has compact design and ensures, simple and convenient operation, safety, stability and no noise.

## Your advantages

- > Working speeds range from 150rpm to 1200rpm
- > Bright TFT with display resolution 1rpm, easy to operate with the knob and control keys
- > Rotational motion with shaking radius of 3mm
- > Smooth starting function to protect the sample from spilling out
- > Users can set the timer from 1 min to 99 hour 59 min, with the count-down timer.
- > Possible to use 1.5ml Micro-tube, 15ml, 50ml conical tube.
- > BLDC motor provides low noise and strong durability
- > During overload situation, it shows overload sign, make alarm and stop the running



## Specifications

Model		WS-350P
Shaking System	Speed range(rpm)	150~1,200 (No-load running)*
	Speed control type	Feedback Control
	Orbital diameter (mm)	3
	Timer	1min to 99 hrs 59 min, Count-down time
Safety device		Over current protection
Max. Load including attachment (kg)		4
Motor type		BLDC motor
Control panel		TFT, touch keys and the control knob
Dimension	Overall Dimension (W×D×H, mm)	249 x 329 x 127
	Tray dimension (W x D, mm)	267x 183
	Net Weight (kg)	10.3
Materials		PP, PET, Powder coated steel (Housing)
Electrical requirement		100 ~ 240VAC, 50 / 60 Hz
Order No.		W5011003

\* Maximum speed at full load is 925 Rpm

## Accessories

Order No.	Part	Description
W5011301	Micro-tube rack	1.5ml Micro-tube rack
W5011302	Micro-tube rack	15ml Micro-tube rack
W5011303	Micro-tube rack	50ml Micro-tube rack

# Heating Shaker

Useful for a variety of molecular biology applications.

Interval mix function in program mode can be properly set according to users' test condition.

## Features

- > Microprocessor PID control ensuring consistent shaking motion and precision accuracy.
- > Speed range from 150 to max. of 1500 rpm (depending on the choice of interchangeable blocks)
- > Maximum 9 temperature range-specific calibration.
- > Memory function of programmed protocols allowing relevant parameters (such as temp., rpm, time) of each protocol step to be stored.
  - Up to 10 protocols allowed for memory storage.
  - Up to 10 steps allowed for each protocol.
  - Interval Mix function (continuous switching between shaking and phasing)
- > Two types of timer modes:
  - Timer 1 starts only after reaching the set temp.
  - Timer 2 starts right after the timer setting.



- > 96-Well Tube Block Set with Covers
- > 0.5mL / 1.5mL / 50mL Tube Block Set with Covers



## Specifications

Mode		WS-350B	
Order No.	W5012350		
Control	Feedback control PID		
Display	VFD (0.1°C resolution)		
Temperature	Range (°C)	Amb.+5-100°C	
	Fluctuation at 80°C (±°C)	0.3	
	Variation at 80°C (±°C)	0.7	
	Heating power (W)	360	
Safety	OverTemp.	Heating plate	
	Over Current	Current limit protection	
	Motion Type	Orbital	
Shaking System Dimension (WxDxH)	Speed range (rpm)	96-well tube block	150 -1500
		0.5mL tube block	150- 1000
		1.5 mL tube block	150-1000
		50 mL tube block	150-800
	Orbit Size (mm)	2	
Overall(WxDxH) (mm)	276 x 334 x 170		
Weight (kg)	8.3		
Electrical requirements	230V, 50 / 60 Hz, 1.7A		

## Constructional

- > Bright VFD display with responsive touch buttons.
- > Its powder coated stainless steel body is highly chemical-resistant and easy-to-clean.
- > Optimal heat transfer is achieved by the tight coupling design of the main body and the corrosion-resistant anodized aluminum blocks.
- > Low-profile design with rubber feet for minimal vibration and noise.
- > Blocks can be easily interchanged by the included block lifter.



W5012454

W5012451



W5012452

W5012453

## Accessories

Order No.	Description	Max. Mountable Tube
W5012451	0.5 mL Tube Block Set with Cover	0.5mL x 48 holes (microtube)
W5012452	1.5 mL Tube Block Set with Cover	1.5mL x 24 holes (microtube)
W5012453	50 mL Tube Block Set with Cover	50mL x 6 holes (centrifuge tube)
W5012454	96-well Tube Block Set with Cover	0.2mL x 96 holes (microtube)