

**LAB1ST**



# Mixing



Labfirst Scientific Instruments (Shanghai) Co., Ltd.

# Orbister 330 Orbister 250

## LCD Digital Orbital Shaker

### Features

- Independent LCD display for speed and time
- Compact footprint
- Provides smooth and uniform shaking
- Two options: 7.5 kg (Orbister 330) with platform and 2.5kg (Orbister 250) with platform speed range 100-500 rpm and 100-800 rpm
- Continuous or timer operation mode
- Maintenance- free brushless DC motor
- Over speed detection and protection
- Wide range of optional platform for flasks, and other popular vessels
- Remote function provides PC control and data transmission
- Free software for PC control & data logging

### Applications

Suitable for mixing in culture dishes, flasks and beakers. Ideal for aeration and extraction applications. It can be used in environmental chambers and CO2 incubators.















Orbister 330













Orbister 250




Specifications	Orbister 330	Orbister 250
Orbital diameter	10mm	4mm
Max. load capacity (with platform)	7.5kg	2.5kg
Motor type	Brushless DC motor	Brushless DC motor
Motor input power	28W	28W
Motor output power	15W	15W
Speed range	100-500rpm	100-800rpm
Speed display	LCD	LCD
Timer display	LCD	LCD
Time settings range	1min-19h59min	1min-19h59min
Voltage,Frequency	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	30W
Weight	12kg	8.1kg
Permissible ambient temperature and humidity	5-40°C,80%RH	5-40°C,80%RH
Dimension[W×D×H]	370×420×100mm	300×340×100mm
Protection class	IP21	IP20
Data connector	RS232	RS232

Cat. No.	Description	Orbister 330	Recipster 330	Wavester 330	3D-Ster 330	Orbister 250	Recipster 250
 921805	SK330.5, Dish platform with non-slip mat and fixed string (8pcs) Dimension[WxD]: 30x28.5cm	■	■	■	■		
 921806	Silicone mattress for 16x 5~15 mL tubes, use with SK330.5	■	■	■	■		
 921807	Silicone mattress for 6x 50 mL tubes, use with SK330.5	■	■	■	■		
 921812	SK180.4, Dish attachment with non-slip mat Dimension[WxD]: 24x21.5cm					■	■
 921813	SK180.5, Large size dish attachment with non-slip mat Dimension[WxD]: 30x23cm					■	■
 921814	SK180.6, Dish attachment with non-slip mat Dimension[WxD]: 28x28cm					■	■
 921815	Silicone mattress for 10x 5~10 mL tubes					■	■
 921816	Silicone mattress for 4x 50 mL tubes					■	■
 921801	SK330.1, Universal attachment with 4 bars Size: 32x32cm Capacity for flask: 25 mLx21pcs, 50mLx15pcs, 100 mLx12pcs, 250mLx6pcs, 500x4pcs	■	■	■	■		
 921804	SK330.3, Lengthways roller attachment Size: 32x32cm Capacity for flask: 25 mLx21pcs, 50mLx15pcs, 100 mLx12pcs, 250mLx6pcs, 500x4pcs	■	■	■	■		
 921808	SK180.1, Universal attachment with 3 bars Size: 25x24.5cm Capacity for flask: 25 mLx10pcs, 50mLx8pcs, 100 mLx6pcs, 250mLx4pcs, 500x2pcs					■	■
 921811	SK180.3, Lengthways roller attachment Size: 25x24.5cm Capacity for flask: 25 mLx10pcs, 50mLx8pcs, 100 mLx6pcs, 250mLx4pcs, 500x2pcs					■	■

Cat. No.	Description	Orbister 330	Recipster 330	Wavester 330	3D-Ster 330	Orbister 250	Recipster 250
 921802	Bar for SK330.1 universal attachment	■	■	■	■		
 921809	Bar for SK180.1 universal attachment					■	■
 921822	Connect sticks for double dishes shaker	■	■	■	■	■	■
 921803	SK330.2, Fixing clip attachment Size: 32 x 32cm	■	■	■	■		
 921810	SK180.2, Fixing clip attachment Size: 25 x 24cm					■	■
 921817	Fixing clip for flask volume 25mL, used with SK330.2[56pcs] SK180.2[36pcs]	■	■	■	■	■	■
 921818	Fixing clip for flask volume 50mL, used with SK330.2[28pcs] SK180.2[18pcs]	■	■	■	■	■	■
 921819	Fixing clip for flask volume 100 mL, used with SK330.2[28pcs] SK180.2 [18pcs]	■	■	■	■	■	■
 921820	Fixing clip for flask volume 200/250 mL, used with SK330.2[13pcs] SK180.2[8pcs]	■	■	■	■	■	■
 921821	Fixing clip for flask volume 500 mL, used with SK330.2[9pcs] SK180.2[8pcs]	■	■	■	■	■	■

Lab1st mixers range can be divided into different series as per mixing speed, working mode, load capacity etc:

Series	Image	Model	Speed Range	Working mode	Capacity
<b>Vortex Mixer</b>		Vortex S	0~3000rpm	Orbital (touch + continuous modes)	-
		Vortex F	3000rpm(fixed)	Orbital (touch + continuous modes)	-
		Vortex E	3000rpm (fixed)	Orbital (touch mode)	-
		Vortex C	0~3000rpm	Orbital (touch + continuous modes)	8x2mL
<b>Microplate Mixer</b>		Microster M	0~1500rpm	Orbital (continuous mode)	0.5Kg
<b>Disk Rotator</b>		Rotaster 3	10~70rpm	360° rolling (timer + continuous)	60x1.5mL, 16x15mL, 8x50mL, (available for 3 layers)
<b>Rotisserie Rotator</b>		Grillster T	10~70rpm	360° rolling (timer + continuous)	48x1.5mL, 24x15mL, 24x50mL
<b>Disk Rotator</b>		Rotaster 1 basic	0~80rpm	360° rolling (continuous)	48x2mL, 16x15mL, 8x50mL
<b>Rotisserie Rotator</b>		Grillster basic	0~80rpm	360° rolling (continuous)	32x2mL, 20x15mL, 16x50mL
<b>Rocker</b>		See-saw 30 basic	0~30rpm	30±3° rocking (continuous)	10x10mL, 4x50mL
		See-saw 30L	0~30rpm	30±3° rocking (continuous)	16x10mL 6x50mL
		See-saw 30D	0~30rpm	40±3° rocking (continuous)	32x10mL, 12x50mL
<b>Roller</b>		Rollster 6	0~70rpm	360° rocking&rolling (timer + continuous)	4Kg
		Rollster 6 basic	0~70rpm	360° rocking&rolling (continuous)	4Kg

Lab1st shaker series can be divided to different types as per different motion models:

Series	Image	Model	Plate Size	Display	Speed Range	Max. Load Capacity
<b>Orbital Shaker</b>		Orbiter 330	32x32cm	LCD	100-500rpm	7.5Kg
		Orbiter 250	25x24.5cm	LCD	100-800rpm	2.5Kg
		Orbiter 330 basic	33.5x33.5cm	LCD	70-400rpm	3Kg
		Orbiter 250 basic	26.8X26.8cm	LED	40-200rpm	2Kg
<b>Linear Shaker</b>		Recipster 330	32x32cm	LCD	100-350rpm	7.5Kg
		Recipster 250	25x24.5cm	LCD	100-350rpm	2.5Kg
<b>Rocking Shaker</b>		Wavester 330	30x28.5cm	LCD	10-70rpm	10Kg
		Wavester 250 basic	26.8x26.8cm	LED	10-80rpm	2Kg
<b>3D Shaker</b>		3D-Ster 330	30x28.5cm	LCD	10-70rpm	5Kg