

**LAB1ST**



# Mixing



Labfirst Scientific Instruments (Shanghai) Co., Ltd.

# Vortex F

## Fixed speed Vortex Mixer

## Applications

Vortex mixers are ideal for mixing liquid components in tubes, resuspension of cells, using an eccentric mechanism. They are widely used in clinical labs performing virus diagnostic tests and in biological & chemical analysis applications.

It is perfect for mixing high-viscosity materials, such as waxes and slurries; to mix battery slurries, paints, pharmaceuticals and more.



Wide range of accessories

### VT1.1 Standard top(Default)

Cat. No.921001


for <math>\varnothing</math>30mm tubes and small vessels




Specifications	Vortex F (Fixed speed)
Voltage,Frequency	100-120V/200-240V,50/60Hz
Power	60W
Mixing motion	Orbital
Orbital diameter	4mm
Motor type	Shaded pole motor
Motor rating input	58W
Motor rating output	10W
Speed range	3000rpm
Speed display	-
Run type	Touch operation/Continuous
Dimension[W×H×D]	127×130×160mm
Weight	2.0kg
Permissible ambient temperature	5-40°C
Permissible relative humidity	80%RH
Protection class	IP20




**VT1.3.1 tube adapter** Cat. No.921004  
for 48 test tubes, Ø6mm (1 ml)



**VT1.2 Tube holding rod** Cat. No.921002  
used with tube adapters




**VT1.3.2 tube adapter** Cat. No.921005  
for 15 test tubes, Ø10mm (1.5-2 mL)




**VT1.3 Universal top plate** Cat. No.921003  
Ø 100mm




**VT1.3.3 tube adapter** Cat. No.921006  
for 16 test tubes, Ø12mm (5 mL)




**VT1.3.6 Platform pad** Cat. No.921009  
Ø99mm, multiple small tubes and vessels




**VT1.3.4 tube adapter** Cat. No.921007  
for 8 test tubes, Ø16mm (10 mL)




**VT1.3.7 vacuum chuck** Cat. No.921010  
made of rubber




**VT1.3.5 tube adapter** Cat. No.921008  
for 8 test tubes, Ø20mm (10-15 mL)



**PS1.2 Microplate clamp** Cat. No.921202



**VT1.3.6 PCR tube adapter** Cat. No.921012  
for 56 test PCR tubes, strips of 8 ,  
Ø5mm (0.1mL-0.5 mL)

















## Application of accessories

Accessories	Adjustable speed model (0-2500rpm)	
	Touch mode (High speed area)	Continuous mode (Low speed area)
VTI.1	Y	Y
VTI.2 + VT1.3.1	Y	
VTI.2 + VT1.3.2	Y	
VTI.2 + VT1.3.3	Y	
VTI.2 + VT1.3.4	Y	
VTI.2 + VT1.3.5	Y	
VTI.3 + VT1.3.6	Y	
VTI.3 + VT1.3.1		Y
VTI.3 + VT1.3.2		Y
VTI.3 + VT1.3.3		Y
VTI.3 + VT1.3.4		Y
VTI.3 + VT1.3.5		Y



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