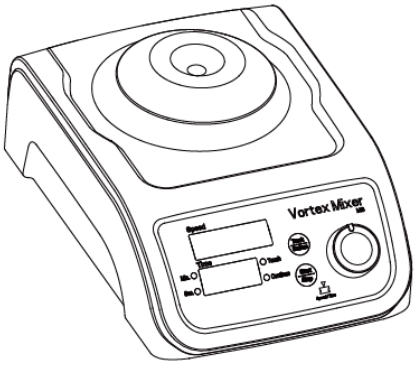
Kalstein

Model YR05007-1

Vortex Mixer

Instruction Manual



Thank you very much for purchasing our Vortex Mixer Model YR05007-1.

Please read the “Operating Instructions” and “Warranty” before operating this unit to assure proper operation. After reading these documents, be sure to store them securely together with the “Warranty” at a hand place for future reference.

Warning: Before operating the unit, be sure to read carefully and fully understand important warnings in the operating instructions.

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Introduction

This series of products is high speed small oscillator which suitable for two or more sample for fast mixing. Used widely to college, research institutions and laboratory.

This series of products have compact structure designing; low center of gravity provide the stable operation when high speed ;use the DC brushless Motor ,long-life, low noise the motor drive directly ,no belt loss; induction and variable frequency motor (without belt work):chuck installing more conveniently; Inching feature and consecutive operation, easy for switching ;Centric balance piece designing, amplitude can be achieved 4.5mm,nice oscillation effects .

Metal hull, reliable and strong; Timing function, also can be countdown and digital showing.

Digital show the setting speed and operation speed, easy and clearly.

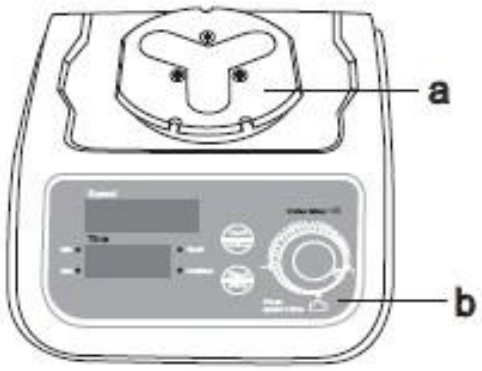
All the fixtures can be inching feature and consecutive operation, suited to the lab requirement.

Safety guidance

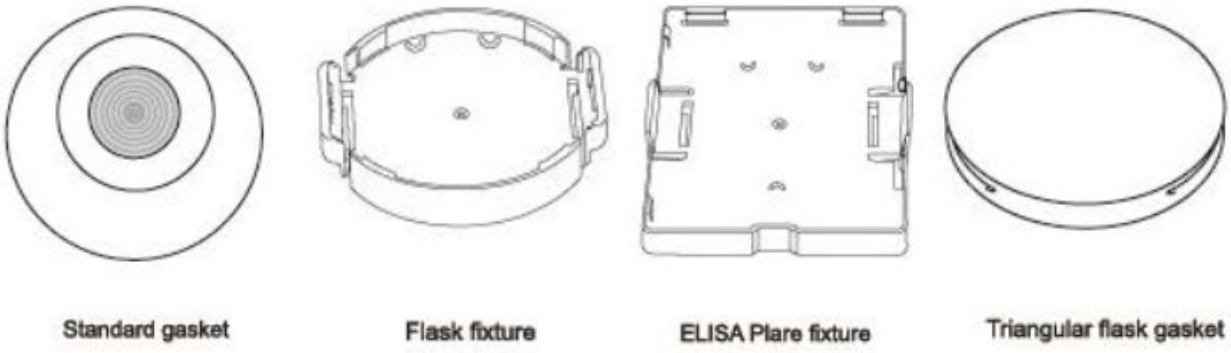
1. It only can use the original adapter.
2. The instrument only can be placed on the strong and horizontal table-board.
3. The instrument will be highly oscillated, the container should be together with the cover and the sample in the container cannot past the half, prevent the sample spilled when instrument operating.
4. It should be power off when change the fixture.
5. It should be wipe liquid samples when it spilled on instrument.
6. It cannot move when the instrument is operating.
7. The fixture should be fixed in place, prevent it fly off when the instrument is operating.
8. The sample cannot exceed the Max load.

Product figure

Host

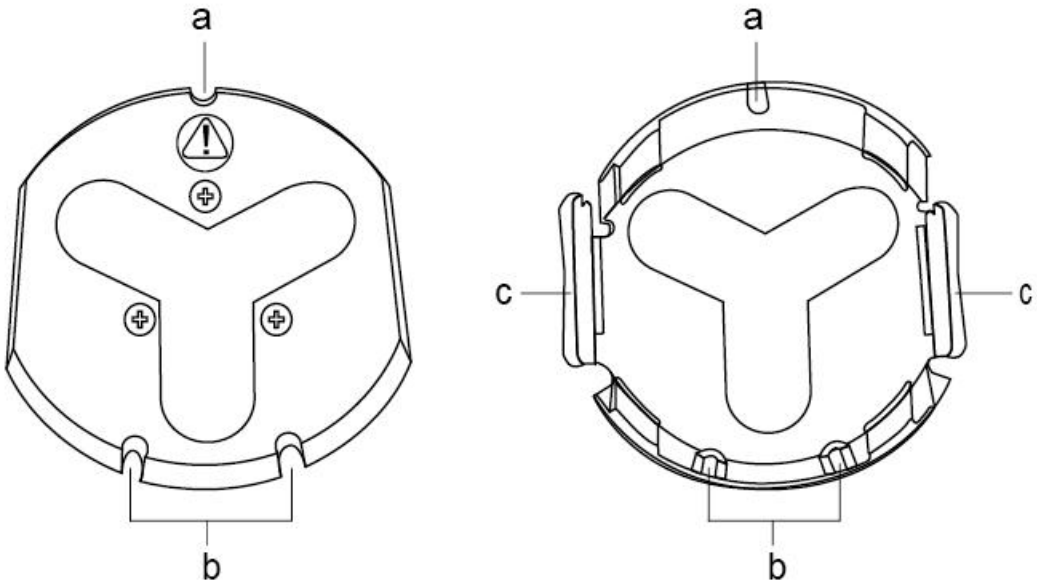


Accessory



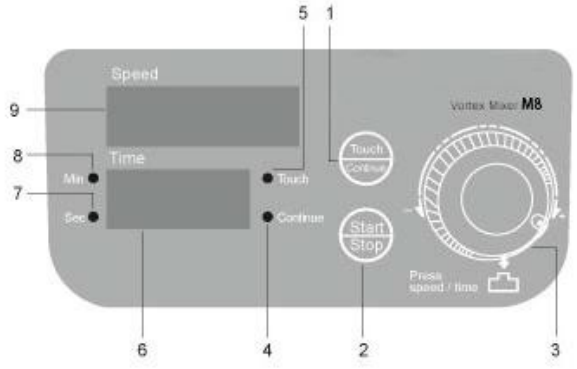
Instrument installation

Place the instrument in table, please make sure that the power with OFF, choose the requirement for gasket or fixture.
When install the gasket, fixed one side first, then the other side fit into oscillating board via its flexibility.
When install the fixture, according to the position of identification, fix the clamp to the oscillating board, please press the other side of oscillating board, when hearing the “KA” sound, it means that the installation is correct.



A: The position of single cutting identification
B: The position of double cutting identification
C: Clamp
D: The position of speed identification

Operating instructions



1: Touch / Continue The button for switchover the Inching and continuation mode.
2: Start / stop the button for start and stop, when in Inching a mode, press this button can be short mixing, the instrument start and stop will have the “DIDI” hint sound.
3: Speed / Time speed and the time adjusting knob, press it can be chose the parameter of “speed”,” minute” and “second”, when the display flash showing, it can be adjusted, clockwise for increasing, anticlockwise for reducing. After 3 flashings, it defaults the value automatically which was setting.
4: Continue oscillating indicator light
5: Inching oscillating indicator light
6: Time display; indicator light for minutes and seconds.
7: Time indicator light for” minute”
8: Time indicator light for “second”
9: Speed display, RPM/min

Operating steps

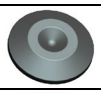
It will be automatic detected the standard gasket and fixture and limited in the safety speed.
Use the standard gasket which the max the speed at 3000 RPM, press the speed adjusting knob, clockwise for increasing, anticlockwise for reducing. Press the tube or centrifuge tube to the standard gasket, the instrument can be operation. The instrument will be stop when the sample leave the standard gasket. The display shows operating time.
Use other fixture, the instrument will distinguish automatic, speed limit automatic.
Choose the sample adapter, place the sample which should be mixed, according the button”1” choose the operation mode ,if use the touch mode ,adjust the speed which need ,press the start/stop button ,the instrument operating,, when release the button it will be stop , the time display showing operate time;
If want to use the Continue oscillating mode, according the Touch / Continue button for Switchover, setting the speed and time ,press start /stop button, the instrument will be operated according the speed and time setting, Arrived the setting time ,the instrument will be stop, the display showing “End” and have the have the “DIDI” hint sound .

Technical parameters

Model	YR05007-1
Oscillation Mode	circumferential
Turnaround diameter	4.5mm
Speed range	200-3000rpm/min stepless speed regulating
Voltage	100-240V
Maximum Load	1.0kg

Timing functions and showing	Timing function also can be countdown and digital showing
Speed setting and showing	0-3000rpm Real-time digital showing the speed and time
Driving	Induction and variable frequency motor (without belt work)
Motor input power	20W
Motor Output power	15W
Operator schema	Inching feature and consecutive operation
Dimension mm (WxDxH)	210x150x69
Weight	4kg
Protection Class	IP21
Standard configuration Standard gasket	Standard configuration Standard gasket

Enzyme labelled plate fixture

Product name	Part No/Speed	USE	Picture
Test tube gasket Standard	**M8-1 Max 3000rpm**	Plate the tube which the diameter no more than 50mm small containers Slot structure to prevent the container from sliding during	
Flat bottomed flask jigs Optional	M8-2 Max.3000rpm	Plate the flask which the diameter no more than 85mm	
Enzyme labelled plate fixture Optional	M8-3 Max.1500rpm	Fix the ELISA plate	
Test tube gasket Optional	M8-4 Max.1500rpm	Oscillation diameter 10mm，30 holes tube	
Test tube gasket Optional	M8-5 Max.1500rpm	Oscillation diameter 17mm，5 holes tube	
Test tube gasket Optional	M8-6 Max.1500rpm	Oscillation diameter 12-13mm，16 holes tube	
Test tube gasket Optional	M8-7 Max.1500rpm	Oscillation diameter 15mm 12holes sample bottle	
Test tube gasket Optional	M8-8 Max.1500rpm	PCR0.2ml×8 tube or 0.2ml tube PCR96 plate	
Test tube basket Optional	M8-9 Max.1500rpm	Oscillation diameter 17mm，12 holes tube	
Test tube basket Optional	M8-10 Max.1500rpm	Oscillation diameter 50ml，2 holes Cone bottom / round bottom	
Test tube basket Optional	M8-11 Max.1500rpm	Oscillation diameter 25mm，4 holes penicillin bottle