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MIXERS

Vortex Mixer
Rotator Mixer
Roller Mixer
Vertical Oscillator



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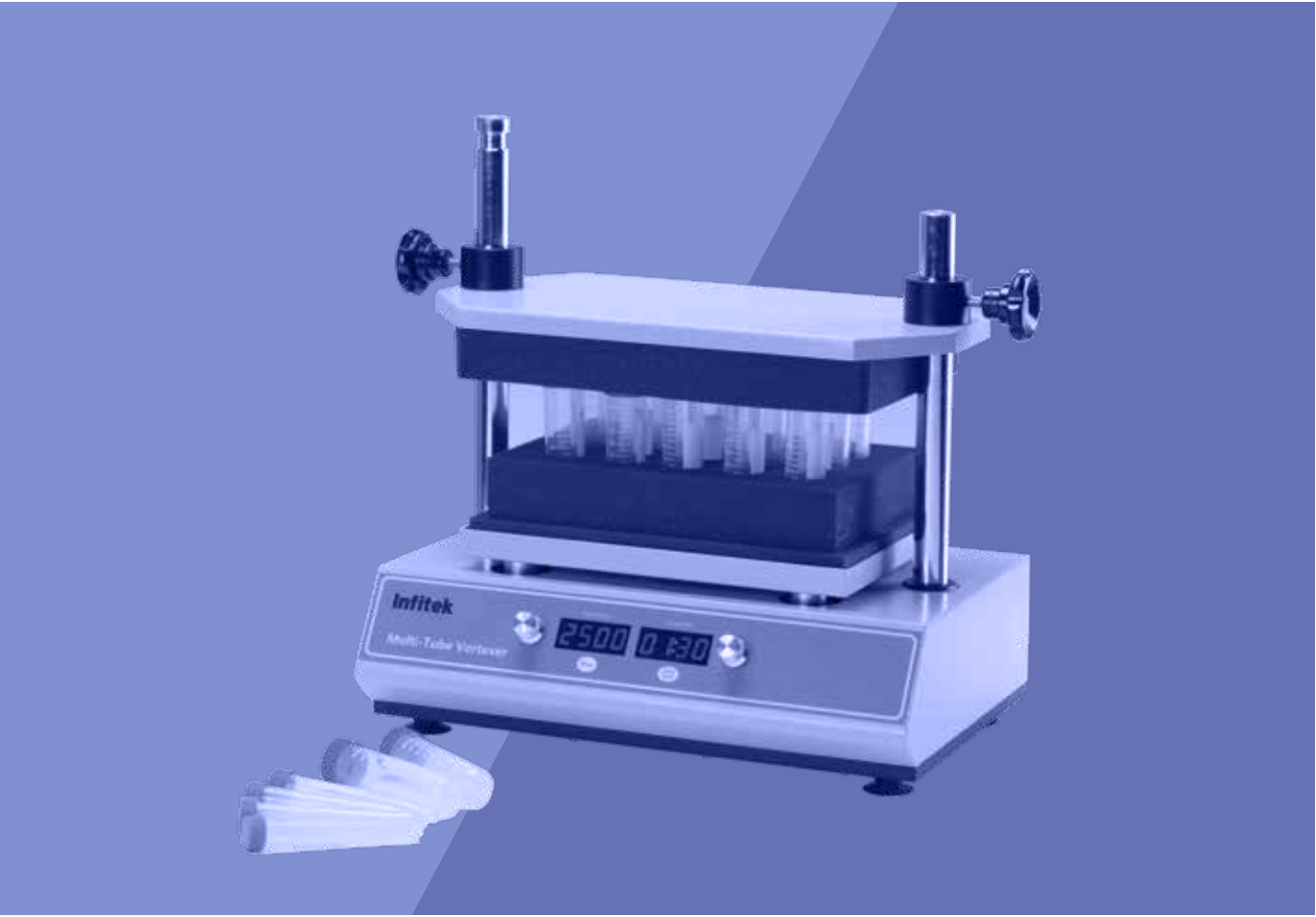
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Vortex Mixer

VMX-S VMX-F



Features

- Touch operation or continuous mode.
- Variable speed control from 0 to 3000rpm (VMX-S).
- Fixed Speed 3000rpm (VMX-F).
- Used for various mixing applications with optional adapters (VMX-S).
- Specially designed vacuum suction feet for body stability.
- Robust aluminum-cast construction.



VMX-S(Adjustable speed)



VMX-F(Fixed speed)

Specifications

Model	VMX-S(Adjustable speed)	VMX-F(Fixed speed)
Voltage	100-120V/200-240V,50/60Hz	100-120V/200-240V,50/60Hz
Power	60W	60W
Mixing motion	Orbital	Orbital
Orbital diameter	4mm	4mm
Motor type	Shaded pole motor	Shaded pole motor
Motor rating input	58W	58W
Motor rating output	10W	10W
Speed range	0-3000rpm	3000rpm
Speed display	Scale	-
Run type	Touch operation/Continuous	Touch operation/Continuous
Dimension[W×H×D]	127×130×160mm	127×130×160mm
Weight	2kg	2kg
Permissible ambient temperature	5-40 C	5-40 C
Permissible relative humidity	80%RH	80%RH
Protection class	IP21	IP21

Accessories of VMX-S

Standard accessories

Standard top		After installation	
VT1.1 For<φ30mm tubes and small vessels			Touch mode (High speed area) Continuous mode (Low speed area)

Optional accessories

Universal top plate	Platform pad	After installation	
VT1.3 φ100mm		Continuous mode (Low speed area)	

Universal top plate	Tube adapter	After installation
	VT1.3.1 48×φ6mm(1mL tubes)	
	VT1.3.2 15×φ10mm(1.5-2mL tubes)	
	VT1.3.3 16×φ12mm(5mL tubes)	
	VT1.3.4 8×φ16mm(10mL tubes)	
	VT1.3.5 8×φ20mm(10-15mL tubes)	
	VT1.3.8 24×φ10mm(1.5-2mL tubes)	
	VT1.3.9 56×φ5mm(0.1-0.5mL PCR tubes, PCR strip tubes)	
	VT1.3.10 4×φ28mm(50mL tubes)	
	VT1.3.11 12× φ 9.8mm+12× φ 6.6mm+12× φ 5mm(1.5/2.0/0.5/0.2mL tubes)	
	VT1.3.12 30× φ 9.8mm+55× φ 6.6mm+44× φ 5mm(1.5/2.0/0.5/0.2mL tubes)	

Tube holding rod	Tube adapter	After installation
 VT1.2	VT1.3.1 48×φ6mm(1mL tubes) 	 Touch mode (High speed area)
	VT1.3.2 15×φ10mm(1.5-2mL tubes) 	
	VT1.3.3 16×φ12mm(5mL tubes) 	
	VT1.3.4 8×φ16mm(10mL tubes) 	
	VT1.3.5 8×φ20mm(10-15mL tubes) 	
	VT1.3.8 24×φ10mm(1.5-2mL tubes) 	
	VT1.3.9 56×φ5mm(0.1-0.5mL PCR tubes, PCR strip tubes) 	
	VT1.3.10 4×φ28mm(50mL tubes) 	
	VT1.3.11 12×φ9.8mm+12×φ6.6mm+12×φ5mm(1.5/2.0/0.5/0.2mL tubes) 	

Microplate clamp		After installation	
PS1.0 Include rectangle PCR tube adapter			Continuous mode (Low speed area)
Ampule/Tube Attachment		After installation	
VT1.4 4pc ampule/tube(0.2-15mL)			Continuous mode (Low speed area)
Erlenmeyer flask attachment		After installation	
VT1.5 100-250mL, Operating speed: 0-1500rpm			Continuous mode (Low speed area)

Vortex Mixer, Single/double Microplate

VMX-M



Features

A wide range of speed from 0 to 1500rpm.
Used for various mixing applications with optional adapters.
Maintenance-free brushless DC motor.



Specifications

Model	VMX-M
Shaking movement	Orbital
Orbital diameter	4.5mm
Max. shaking weight(with accessory)	0.5kg
Motor type	Brushless DC motor
Motor rating input	18W
Motor rating output	10W
Speed range	Single microplate: 0-1500rpm Double microplate: 0-1000rpm
Speed display	Scale
Voltage	100-240V,50/60Hz
Power	20W
Dimension	260×150×80mm
Weight	3kg
Permissible ambient temperature and humidity	5-40 C , 80%RH
Protection class	IP21

Multi-Tube Vortexer

VMX-MT



Features

- Easy to operate with one-touch knob.

1min~99h59min time range, automatic warning sound when finish working.

Microprocessor control, simple operation panel, LED displays for speed and time.

Humanized program design, built-in short mix and timing operation modes.
- A variety of test tube foam racks for option to meet the mixing needs of different test tubes.

Soft start, uniform acceleration, effectively avoid samples splashing.

Brushless DC motor: precise shaking speed, long service life maintenance-free.

Process up to 50 samples at a time to make the experiment more convenient and efficient.

Description

VMX-MT Multi-Tube Vortexer is with technique of brushless DC motor and microprocessor controlled technique. Unique knob operation is easy to use. It can maximum process 50 samples at once. A variety of test tube foams can be selected to meet the mixing needs of different test tubes. It can be widely used in the biotechnology, microbiology, medical analysis and other industries.

Specifications

Model	VMX-MT
Speed range	500~2500rpm
Orbit	4mm
Temp setting range	1min ~99h59min
Max load	4.5kg
Power supply	70W
Voltage	AC110~240V 50/60Hz
Dimension(mm)	410x276x432
Package Dimension(mm)	520x430x510
N.W.	20kg

Accessories

Type	Picture	Sponge Tube Rack(mm)	Capacity	Remarks
MS200-T10		Φ 9~10	50	Standard
MS200-T12		Φ 11~13	50	Standard
MS200-T15		Φ 14~17 (15ml Centrifuge tube)	50	Standard
MS200-T20		Φ 18~21	50	Standard
MS200-T25		Φ 24~27	15	Standard
MS200-T29		Φ 28~32 (50ml Centrifuge tube)	15	Standard
Foam pad (upper)		/	/	Standard
Foam pad (lower)		/	/	Standard

Multi-Tube Vortex Mixer

VMX-R3000

Features

- Wide application range, and simple operation.
- 7-inch color touch screen control, real-time display of the current rate and remaining time.
- Appointment start, cycle setting, multiple steps of different rate and duration.
- Available in 3 modes for operation for various sample matrices.
- High throughput, can process up to 66 samples simultaneously.
- Compatible with 100mL, 50mL and 15mL vials, also available in customized rack.



Application



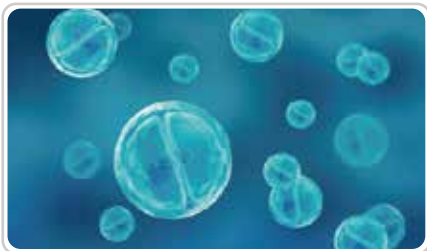
QuEChERS method

Used to extract pesticides, antibiotics, and drugs.



Molecular biology

Used in PCR and DNA extraction for mixing reagents.



Cell biology

Used in cell culture for mixing

Description

- As an ideal mixer for large sample batches, it is mainly used for vortex mixing up to 66 samples (using 2mL EP tubes) at a time, in great effect and efficiency. It can accommodate a wide variety of vials with different sponge racks and can be widely used in molecular biology, cell biology, chemicals, pharmaceuticals, and food industries.

Specification

Model	VMX-R3000
Oscillation Mode	Eccentric rotation, amplitude 3.6mm
Oscillation Speed	500-3000rpm
Motor	Brushless motor
Time Setting	Set running time within 1s to 160 hours; Sound alarm automatically after the operation
Sample Capacity	18 positions*50mL centrifuge tube (φ29mm), also available in other size of racks
Display	7-inch color touch screen, real-time display (set time, rate and remaining time)
Operation Mode	Available in pulse mode, programmed operation mode, positive and reverse mode; For pulse mode and positive and reverse mode, the running time of set rate can be set as needed;
Programmable Running	Up to 4 steps in the method, set different time and rate for automatic rate change
Appointment Oscillation and Cycle	The interval time between cycles is selectable, and the appointment oscillation time can be up to 12 hours
Method Management	Able to use previous method and save method, max. 50 methods
Safety	With button to stop the equipment in emergency
Light Indicator	To show the current state of the equipment by the light color
Others	Log and error reporting information collection and display, able to find the equipment operation and status
Non-Operating Storage Environment	Temperature: 0℃~40℃ (32℉~104℉) Humidity: 20%~70% RH
Operating Environment	Temperature: 10℃~40℃ (50℉~104℉) Humidity: 20%~70% RH
Electricity	AC 200~240V, 50/60Hz, 150W
External Dimension	400*310*520mm
Package Dimension	700*500*1240mm (Including 1 pallet)
N.W./G.W.	25kg/43kg (Including 1 pallet)

Vortex Mixer

VMX4.5-35 VMX3-28



Description

Vortex mixer uses eccentric rotation to make the liquid in the test tube and other containers generate vortex, so as to achieve the purpose of fully mixing the solution.

Features

The instrument is characterized by fast mixing speed, thorough mixing, and vortex-like liquid that can mix all the test liquids attached to the tube wall evenly.

It is suitable for mixing the liquids in general test tubes, beakers, flasks, liquid separators, and funnels evenly.

It is also very easy to mix some insoluble drugs such as erythromycin, dyeing liquid, etc., and the effect is remarkable.

The mixed liquid does not need electric stirring and magnetic stirring, so the mixed liquid is not affected by external pollution and magnetic fields.

Application

As a powerful auxiliary tool for laboratory analysis, it is widely used in environmental monitoring, medical and health, petrochemical, food, metallurgy and other various colleges, laboratories and laboratories of scientific research and production companies for mixing and extraction. It can also be used for shaking culture of various samples such as biology, biochemistry, cells and bacteria.



Specifications

Model	VMX4.5-35	VMX3-28
Range of rotation	1000~3500rpm (Stepless speed regulation)	1000~2800rpm (Stepless speed regulation)
Time setting	NO	Timing display
Amplitude	4.5mm	3mm
Mixing method	Horizontal circumference	Horizontal circumference
Capacity	Single tube	Standard single-tube vortex head, sponge tray, four kinds of sponge modules
Operation mode	inching	Continuous, inching

Vortex Mixer, Lab Mini Economic

VMX-E



Features

- For small amount of sample mix
- Touch operation
- Fixed speed: 3000rpm
- Small and beautiful
- DC brushless motor, stable performance

Specifications

Model	VMX-E
Power supply [VAC]	100-240
Frequency [Hz]	50/60
Power [W]	12
Mixing motion	Orbital
Revolving diameter [mm]	4.8
Motor rating output[W]	10
Rotational speed [rpm]	3000
Operating mode	Inching
External dimension [mm]	133×133×80
Dimension of packing box [mm]	250×185×130
Weight [kg]	0.6
Allowable environment temperature [°C]	5-40
Permissible Ambient Temperature	≤80%RH
Protection class	IP21



Rotary Mixer, Adjustable-Angle

RMX-AR RMX-AR-E



RMX-AR

- Electronic adjustment of speed and time.
- LCD display speed and time.
- Speed range from 10 to 70rpm.
- Provides gentle but effective rolling.
- A wide variety of accessories are available.

RMX-AR-E

- Provides gentle but effective rolling.
- Adjustable speed range from 0 to 80 rpm.
- A wide variety of accessories are available.

Specifications

Model	RMX-AR	RMX-AR-E
Motor type	Brushless DC motor	DC motor
Tilt angle	0-90°	-
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	-
Timer	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension[D×W×H]	220×510×260mm	300X220X310mm
Package Dimension[D×W×H]	480x340x460mm	480x340x470mm
G.W.	7	4
Permissible ambient temperature and humidity	5-40℃,80%RH	5-40℃,80%RH
Protection class	IP21	IP21

Rotator Mixer

RMX-AR-S



Features

- LED display of speed and timer.
- Compatible with tubes 1.5~50mL.
- Rotating plate tilt angle 0~90°.
- Program ends up with beep alarm.
- High quality motor.
- Gentle mixing.
- Tube holder is easy to remove and clean.



Description

- RMX-AR-S is designed to provide stacking rotating plates which doubles the usable surface area; it is precise with speed adjustment and timer functions. It can be placed in an incubator. The mixer is suitable for tissue culture, extraction, blood sample mixing, radioimmunoassay, glucose, in biological, chemical, animal and plant analysis, clinical experiments and many other aspects.

Specification

Model	RMX-AR-S
Speed	10rpm~80rpm
Tilt Angle Range	0°~90°
Timing	0~99h59min
Turnable Plate Capacity with Tube Holders	8×50mL tubes, 16×10/15mL tubes or 32×1.5/2.0mL tubes
Electricity	AC100~230V,50/60Hz
Power	30W
Dimension(W*D*H)(mm)	250*320*300mm
N.W.(kg)/G.W.(kg)	4.2kg/5.5kg
Package Dimension(W*D*H)(mm)	400*310*340mm

Rotator Mixer, Vertical Type

RMX-RR RMX-RR-E



RMX-RR

- Electronic adjustment of speed and time
- LCD display speed and time
- Speed range from 10 to 70rpm
- Provides gentle but effective rolling
- A wide variety of accessories are available



RMX-RR-E

- Provides gentle but effective rolling
- Adjustable speed range from 0 to 80 rpm
- A wide variety of accessories are available



Specifications

Model	RMX-RR	RMX-RR-E
Motor type	Brushless DC motor	DC motor
Speed range	10-70rpm	0-80rpm
Speed display	LCD	Scale
Timer display	LCD	-
Timer	1-1199min	-
Operation mode	Continuous / timer	Continuous
Voltage	100-240V, 50/60Hz	100-240V, 50/60Hz
Power	40W	20W
Dimension [D×W×H]	220×510×260mm	150×530×190mm
Permissible ambient temperature and humidity	5-40℃, 80%RH	5-40℃, 80%RH
Protection class	IP21	IP21

Rotator Mixer

RMX-RR-S



Optional blocks

Type	Picture	Accessories
L1		15mL*22
L2		50mL*12
L3		15mL*12
L4		50mL*12
L5		1.5/2.0mL*36
L6		50mL*4+15mL*8+1.5/2.0mL*16

Description

- RMX-RR-S is a test tube rotator with adjustable rotation speed, hovering and shaking functions. It provides efficient and gentle mixing, keeping biological samples in suspension. It is applied to prevent blood clotting, latex diagnosis, immunoprecipitation, etc., which is ideal for laboratory research fields such as molecular biology, biochemistry, clinical, histochemistry, etc.

Features

- Suitable for all test tubes of any 1.5mL~50mL.
- Free combination of test tube clamps.
- For use in cold storage or incubators.
- Adjustable speed and time of vibration at any angle.
- 10 different built-in programs (rotation and vibration)
- 2 additional programmable settings (6 segments editable per selfprogram)

Specification

Model	RMX-RR-S
Speed	1rpm~99rpm
Operation Mode	Circular motion
Timing	1min ~99h59min
Voltage	DC12V
Power	12W
Dimension(W*D*H)	440*135*280
N.W./G.W.	2 kg/4.24kg
Shipping Dimension(L*W*H)	550*270*300mm

Rotator Mixer, Vertical Type

RMX-RR-SII



RMX-RR-SII Multi-Rotator is a high speed shaker with brushless DC motor and microprocessor controlled technique. Mix and culture all kinds of flask, petri dish and beaker, by changing different platforms. It can be applicable in different laboratories: biotechnology, microbiology and medicine analysis, etc.

Features

- 1. LCD displays time and shaking speed.
- 2. Easy to operate with touch knob.
- 3. Setup the time of 1min~99h59min. Beep alarms when operation ends.
- 4. Different platforms can be chosen for variety demands.
- 5. Gentle and reliable shaking with brushless DC motor.
- 6. Programmable motions include:
Orbital rotational motion,
Reciprocal motion,
Pause. Not only run in one particular type,
But also alternate motions of different types cyclically.



Specifications

Model	RMX-RR-SII
Shaking speed	10-100rpm
Timing range	1min ~99h59min
Time period for orbital rotational and reciprocal motions	1-250s
Time for pause	1-5s
Max. load	6kg
Power	25W
Voltage	AC110~240V 50/60Hz
Dimension	485x200x226mm
Weight	5.9kg

Optional accessories

Type	Specifications
PRS-01	Vertical installation, 44*1.5ml/2.0ml
PRS-02	Horizontal installation, 40*1.5ml/2.0ml
PRS-03	Vertical installation, 32*5ml
PRS-04	Horizontal installation, 40*5ml
PRS-05	Vertical installation, 12*10ml/15ml
PRS-06	Horizontal installation, 16*10ml/15ml
PRS-07	Vertical installation, 12*50ml
PRS-08	Horizontal installation, 16*50ml

*Choose one type as a standard accessory

Rotator Mixer, Vertical Type

RMX-SRD



RMX-SRD

It can accommodate up to 16 × 5~10ml blood vessels, or 6× 50ml tubes on each of the two layers with different silicon mattress accessories.

Tilt angle up to 40°.

Application

The rocking rotators combine the advantages of the long axis rotator and the rocking shaker. Compared with the rocking shaker, it can provide a greater tilt angle, for better performance in some clinical laboratory applications (such as the mixing of blood samples in vacuum blood vessels).

At the same time, the series minimizes redundant functional settings for straighter and simpler user operation under clinical conditions.

Specifications

Model	RMX-SRD
Tilt angle	40±3°
Load capacity	1kg
Motor type	Brushless DC motor
Speed range[rpm]	0~30
Operation mode	Continuous
Dimension (W×D ×H)mm	405×160×160
Voltage	100~240V, 50/60Hz
Power	15W
Weight	2.2kg
Permissible ambient temperature and humidity	5~40 ℃,80%RH

Accessories Information

Type	Picture	Describe
Cat. No.18202835		Silicone mattress for 16× 5~10ml blood collection tubes on long decks (RMX-SRL&RMX-SRD)
Cat. No.18202852		Silicone mattress for 10× 5~10ml blood collection tubes on short decks (RMX-SRS)
Cat. No.18202846		Silicone mattress for 6× 50ml test tubes on long decks (RMX-SRL&RMX-SRD)
Cat. No.18202853		Silicone mattress for 4× 50ml test tubes on short decks (RMX-SRS)

Roller Mixer

RMX-TR RMX-TR-E



Description

Tube rollers provide a gentle and highly efficient rolling motions, ideal for mixing blood samples, viscous substances and liquid solid suspensions. Used in a variety of applications, such as the prevention of blood coagulation, immune precipitation, etc.



Specifications

Model	RMX-TR	RMX-TR-E
Amplitude	24mm	24mm
Motor type	DC motor	DC motor
Rocking motion	Rocking and rolling	Rocking and rolling
Max. load capacity	4kg	4kg
Number of rollers	6	6
Roller size[length]	280mm	280mm
Speed range	10 -70rpm	0-70rpm
Speed display	LCD	Scale
Timer	Yes	-
Timer display	LCD	-
Time setting range	1-1199min	-
Operation mode	Continuous/timer	Continuous
Voltage	100-240V,50/60Hz	100-240V,50/60Hz
Power	30W	25W
Dimension [D×W×H]	450×260×120mm	450×260×120mm
Weight	5.1kg	4.5kg
Permissible ambient temperature and humidity	5-40 ℃,80%RH	5-40 ℃,80%RH
Protection class	IP21	IP21

Roller Mixer

RMX-TR-SII



Description

- Roller Mixer is mainly used for mild mixing and keeping biological samples in suspension. They are suitable for similar applications such as prevention of blood coagulation, latex diagnosis, immunoprecipitation, and so on.

Specifications

Model	RMX-TR-SII
Speed range	20~99rpm
Operation mode	Rolling & Swinging
Timing range	1min~99h59min/∞
Forwards/Reverse motion	Yes
Timer for Forwards/Reverse	30sec~99min59sec
Amplitude	25mm
Roller quantity	6
Roller length	280mm
Max. load	4kg
Power	15W
Voltage	AC100~240V, 50/60Hz
Dimension(mm)	480x250x100
Weight	3.8kg

Vertical Oscillator

SHK-R20V

Features

Simple operation

Color touch screen displaying oscillation speed and time.

With start and stop buttons, it can be stopped and started at any time during the oscillation process.

Reservation start, recurring setup.

Convenience & Humanized design

Transparent viewing window with built-in LED light allows user to observe the sampling situation at any time.

The upper cover of the instrument is equipped with boosting module, which makes it easier to open and close the instrument cover.

With sound insulation cotton inside the equipment for sealing and soundproofing.

Safety

With electronic lock, the machine automatically stops running when the door is opened to ensure personnel safety.

Equipped with an emergency mechanical door opening device to deal with sudden power failure and electronic locks that cannot be opened.

Emergency button on the front of the device for emergency use.

Flexible application

The product has a compact structure and occupies a small area (<0.2m2), and can be flexibly placed on various laboratory tables for operation.

Available in various sizes of sample racks to meet different applications, and sample rack can be customized.

Multiple different speed and times of operation, different methods can be set up according to application needs.



Description

- The vertical oscillator can be used for rapid oscillation and mixing of samples, cell disruption, tissue homogenization. It can handle a wide range of samples, including plant roots, stems, leaves, flowers, fruits, seeds and animal tissues, and can also meet the requirements for sample extraction in QuEChERS pre-treatment methods.



Specification

Model	SHK-R20V
High Throughput	Up to 576 samples can be processed in one batch
Oscillation Speed	500-1800rpm, Max. Amplitude: 32mm
Oscillation Cycle	Max. 10mins for each oscillation step, max. 4 steps; Able to set max. 20 cycles of repeating the oscillation method, max. rest time between cycles is 60mins.
Appointment Operation	Max.12 hours
Gradient Program Control	4 steps of gradient setting
Sample Rack	20*50mL, 38*15mL, 10*100mL, 54*2mL; Other specifications can be customized;
Max. Sample Capacity	576 positions
Control Software	7-inch color touch screen to display real-time operating status
Method Storage	Max.50 methods
Overweight Detection	Perform weight detection before operation to prevent the equipment from running overweight
Non-Operating Storage Environment	Temperature: 0℃~40℃ (32℉~104℉) Humidity: 20%~85% RH
Operating Environment	Temperature: 10℃~40℃ (50℉~104℉) Humidity: 20%~80% RH
Electricity	AC 200~240V, 50/60Hz, 1500W
External Dimension	370*520*690mm
Package Dimension	800*600*1200mm (Including 1 pallet)
N.W./G.W.	70kg/96kg (Including 1 pallet)



Food Safety



Rapid Sample Processing



Life Science