Orbital Shaker





LCD screen

Application

Orbital shaker controls the orbital movements frequency to make material dissolution, liquid mixing, microbial culture and plant tissue culture circulate in experimental container. It is widely used in plants incubate, fermentation, hybridization, bacterial culture, biochemical reactions, enzyme and tissue research or small production of biological samples.

Feature

- Adopt single-axis drive and balancing technology, smooth running, low consumption and low noise.
- Micro-computer control frequency and time, built in power off protection, it can resume work after normal power supply.
- Large LCD screen can display frequency and time, menu operate interface, easily to understand.
- 24V DC control guaranty safety use.
- Brushless DC motor, large start torque, wide speed adjustment, free maintenance.
- Adjustable motor start-up torque to avoid over load samples that can not start the instrument.
- Vibration imbalance detection. When shaker vibrates fiercely, the instrument stops automatically and smoothly.
- Many kinds of clamps and racks for selection, and the change of these parts are very easily, improve work efficient.
- Programmable controller can simplified the experiment process, realize automatically control and running.
- RS-232 and USB can be selected one of them, connect with computer, instruments can be monitored the time, alarm and rotation speed.

Safety

- Protection on key components: Key components have over current, over temp., over load etc safety protection, it can prevent instruments accidents without precautions.
- Breakdown message provided: When the instrument breakdown, the breakdown messages show on the screen to help operator easily check.







Orbital Shaker

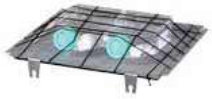
Technical parameters

Model	BS-1	BS-2	BS-3	BS-15	BS-25	BS-35
Speed range	40 – 250rpm	40 – 300rpm		40 – 500rpm		
Frequency accuracy	±1rpm					
Amplitude	20mm			4mm	5mm	5mm
Max loading capacity	2000ml	4000ml	9000ml	2000ml	4000ml	9000ml
Display	LCD screen					
Timer	1 – 99h59min					
Platform sizes (mm)	250×250	350×350	450×450	250×250	350×350	450×450
Overall size W×D×H (mm)	290×375×110	390×495×125	490×605×137	290×375×110	390×495×125	490×605×137
Rated power	60W					
N.W	20 Kg	30Kg	40 Kg	20 Kg	30Kg	40 Kg
Powder requirement	AC220V/50Hz					
Standard configuration	250ml×8pcs	250ml×13pcs	250ml×18pcs	250ml×8pcs	250ml×13pcs	250ml×18pcs

Orbital shaker & Shaker incubator accessories and configuration


Spring wire rack


Universal attachment

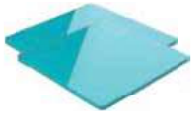

Cell culture spring rack


Flask clamp


Rubber mat


Tube rack


Universal platform


Sticky pad

Model		BS-1	BS-2	BS-3	BSI-1	BSI-2	BSI-3
Universal Platform W×D(mm)	250×250	√			√		
	350×350		√			√	
	450×450			√			√
Spring Wire Rack W×D(mm)	250×250	√			√		
	350×350		√			√	
	450×450			√			√
Universal Attachment W×D×H(mm)	250×250×85	√			√		
	350×350×100		√			√	
	450×450×100			√			√
Cell Culture Spring Rack W×D(mm)	250×250	√			√		
	350×350		√			√	
	450×450			√			√
Rubber Mat W×D(mm)	250×250	√			√		
	350×350		√			√	
	450×450			√			√
Individual Flask Clamps (mm)	50ml	16	36	49	16	36	49
	100ml	9	23	36	9	23	36
	250ml	8	13	18	5	13	18
	500ml	4	8	16	4	8	16
	1000ml	-	4	9	-	4	9
	2000ml	-	1	4	-	-	4
Test Tube Rack	Φ8mm×105	2	3	4	2	3	4
	Φ10mm×72						
	Φ12mm×72						
	Φ14mm×42						
	Φ17mm×26						
	Φ25mm×14						
	Φ30mm×12						
	Φ35mm×10						
	Φ50mm×4						
Sticky Pad W×D(mm)	140×140	1	4	9	1	4	9

Flask clamp placement diagram

BS-1/BSI-1


50ml*16pcs

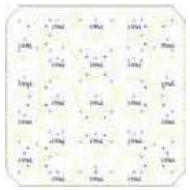

100ml*9pcs


250ml*8pcs


500ml*4pcs

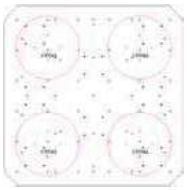
BS-2/BSI-2


50ml*36pcs


100ml*23pcs


250ml*13pcs


500ml*8pcs


1000ml*4pcs


2000ml*1pcs (Except for BSI-2)

BS-3/BSI-3


50ml*49pcs


100ml*36pcs


250ml*18pcs


500ml*16pcs


1000ml*9pcs


2000ml*4pcs