



STACKABLE BOD INCUBATOR SHAKER



Rivotek BOD incubator saves lab space and ideal for complete large capacity applications with our floor and stackable orbital shakers. Combine incubated and refrigerated shaker capabilities with easy-to-use, ergonomic controls to maximize application flexibility and production. Our high performance models offer maximum protection against cross contamination and a directed airflow system which provides temperature uniformity and ideal growth conditions even when the units are full.

Triple eccentric drive handles heavy loads, uniform agitation and continuous 24-hour operation even at high speeds

View actual and set-points of speed and time simultaneously on Digital display while monitoring and controlling chamber temperature range with $\pm 0.1^{\circ}\text{C}$ accuracy at 37°C .

Features:

- Three times the capacity of a floor shaker in virtually the same footprint
- Built for both sensitive eukaryotic culture applications—with contamination-reducing, coved corner design, single-piece chamber and tight temperature uniformity—and for demanding prokaryotic culture applications
- Rugged construction, wide speed range and no limits on “hard shake” speed, even when stacked three-high
- Electronic components and chiller units are easily accessed from the front during regular maintenance or service
- Insulated, fold-up door with easy access to platform flasks.
- Wide-view window and xenon light provide high visibility for harvesting
- Heavy-gauge cold-rolled steel exterior
- Type 304 stainless-steel chamber with coved corners; holds 2L Erlenmeyer flasks, has xenon light with switch
- Magnetic door gasket for tight seal

Mechanics

- Heavy-duty, eccentric drive mechanism allows extended speed ranges from 25 to 300 rpm, ± 1 rpm with minimal vibration, even when shakers are stacked three high
- Durable, dynamically balanced orbital shaker mechanism ensures optimum oxygenation and nutrient mixing, reduced cell clumping, and prevention of splashing and flask wetting
- Triple counterbalanced mechanism provides optimum handling of full or unbalanced loads, regardless of flask placement
- Cool-running, brushless, 1/3hp DC motor ensures continuous maintenance-free operation
- Forced laminar airflow provides excellent temperature uniformity, reduces risk of cross-contamination

Recommended for:

- Bacterial suspensions
- Hybridizations
- Solubility studies
- Diagnostic test
- Extraction procedures
- Washing procedures
- General mixing
- Protein expression
- Staining and destaining
- Plasmid purification

Technical Specifications:

Incubator Shaker with cooling Floor Model. (Heavy duty shaker)		
Model	50084 160	50084 250
Flask capacity with the following options	1000ml x 9 No's / 500ml x 16 no's / 250ml x 36 no's	2000ml x 12 No's / 1000ml x 15 No's / 500 ml x 24 No's / 250ml x 35 No's / 100ml x 70 No's
Speed	0 - 250 rpm	
Display:	Digital RPM Indicator with motion Drive feedback control	
Motion:	Orbital	
Control:	Feedback control System	
Temperature range:	10°C to 60°C	
Controller	Digital temperature controller PID type	
Accuracy:	+/- 1°C	
Circulation:	Blower assembly for uniform temperature	
Refrigerant:	408 gas	
Material	Heavy-gauge Cold-rolled Steel Chamber	
Position of fan	Horizontal dual blower fan positioned at the back of the shaker for uniform circulation & suction	
Chamber Illumination:	Light provided to view the samples	
Driver Motor:	BLDC Motor	
Speed Sensor:	Built in Hall sensor	
Temperature sensor:	PT100 sensor	
Driving Mechanism:	Heavy duty casting mechanism with eccentric counter weight balanced drive	
Platform Size:	550 mm x 550 mm	800mm x 550mm
Inner Chamber Dimensions:	W x D x H (650x 600x420) mm	W x D x H (860x 700x420) mm
Outer Chamber Dimensions:	W x D x H (950x 780x620) mm	W x D x H (1225x 875x625) mm
Inner Chamber:	Stainless Steel	
Outer Chamber:	Aluminium powder coated	
Input Voltage:	230vac@ 50Hertz	