



ORBITAL INCUBATOR SHAKER

Our company manufactures and supplies Orbital Shakers Incubators catering to customers' varied requirements. These Orbital Shakers are made of world class raw material and tested under the guidance of specialists.



SALIENT FEATURES

- Double walled construction with inner chamber made of stainless steel 304 and outer chamber made of mild steel duly powder coated
- Solid door with full view inner plexi-glass door or see through double walled door with glass window enables inspection and monitoring of inner chamber specimens without disturbing the process temperature.
- Shaking platform made of SS 304
- High grade mineral wool insulation to ensure temperature stability & reduced energy consumption
- Designed air flow system ensuring uniform temperature distribution
- Micro processor based PID temperature indicator cum control with LED display
- PT-100 temperature sensor (sensitivity 0.1°C)
- Heating done by long lasting SS air heater
- Shaking with the help of DC Drive & Brush less motor having Eccentric pulley mechanism
- 50-220RPM shaking speed range
- Shaker speed can be controlled through a continuously speed variable regulator knob
- Shaking accuracy of ± 2 RPM
- 25 mm orbital action
- SS / Fiber clamps having spring tension for holding flask
- Continuous running operation of shaker
- Independent digital displays for shaking speed (RPM) and temp
- Shelf for sample incubation
- SS wire mesh or perforated shelf as per user requirement
- Fluorescent lamp illumination for clear view of work chamber
- Over temp cut off using safety thermostat
- Validation port provided
- Automatic restart at pre set speed and temp in case of power interruption
- It works on 230V AC single phase power supply

SPECIFICATION

Description	SAII-OIS-9	SAII-OIS-16	SAII-OIS-25	SAII-OIS-49
Maximum Load Kgs	20	30	50	100
Shaking Plate Size	12" x 12"	18" x 18"	24" x 24"	30" x 30"
Speed Range	50 - 220 RPM			
Temp Range	Ambient +5°C to 80°C			
Temp Accuracy	$\pm 0.5^\circ\text{C}$		$\pm 1^\circ\text{C}$	
Temp Uniformity	$\pm 0.5^\circ\text{C}$		$\pm 1^\circ\text{C}$	

Spire Automation & Innovation, India.

Inspiring Generations...

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Max humidity	80%			
Shaking Amplitude	25 mm			
Flask Capacity	250ml x 9 flask / 1000 ml x 4 flask	250ml x 16 flask / 1000 ml x 9 flask	250ml x 25 flask / 1000 ml x 16 flask	250ml x 49 flask / 1000 ml x 25 flask
Chamber volume	100 L	190 L	385 L	565 L
Internal Size W x D x H	16" x 16" x 24"	22" x 22" x 24"	28" x 28" x 30"	34" x 34" x 30"
External Size W x D x H	20" x 22" x 38"	26" x 28" x 38"	32" x 34" x 44"	38" x 40" x 44"
Weight	100	140	190	250

User can select any one capacity platform as per his / her requirement for shaking platform

Model / Flask capacity (ml)	150 ml	250 ml	500 ml	1000 ml	2000 ml	3000 ml	5000 ml
SAII-OIS-9	9	9	4	4	1	1	1
SAII-OIS-16	25	16	16	9	4	4	2
SAII-OIS-25	36	25	25	16	9	4	4
SAII-OIS-49	64	49	36	25	16	9	9

OPTIONAL (Additional Feature):

- 7 days circular chart paper temperature recorder
- PLC controlled equipment having touch screen colour display HMI with data logging facility of temp and RPM parameter
- MOC Outer body SS 304 & MOC inner body SS 316
- Interlocking of door and shaker – Shaking stops automatically as door is opened and resumes operation as door is closed
- Validation – IQ, PQ & OQ documents
- Audio visual temp deviation alarm
- Audio visual power failure alarm and door open alarm
- Digital timer for setting shaking time
- Inbuilt voltage stabilizer for high voltage protection
- Extra clamps of 150 ml / 250 ml / 500 ml / 1000 ml / 2000 ml / 3000 ml / 5000 ml
- Heavy duty shaker AC motor operated using variable frequency drive having shaking speed 10 to 300 RPM
- Heavy duty shaker with high RPM – Heavy duty AC motor operated using variable frequency drive for high shaking speed 10 to 400 RPM (Horizontal Models)



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