

Incubated & Refrigerated Shakers

Benchtop type



Digital incubating/ refrigerating benchtop shakers

Combines a benchtop incubator/ refrigerator with dual-action in *orbital and reciprocating* shakers. Fulfills a variety of molecular biology, general incubation, and cell culture applications.

Shaking features

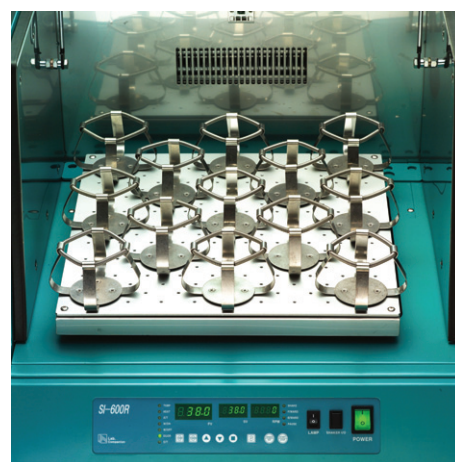
- Select between orbital or reciprocating action
- Speed range: 10 to 300 rpm
- Programmable shaking motion
 - Run time: 10 sec to 999 hr 59 min 59 sec
 - Forward & Backward, Pause: 10 sec to 59 min 50 sec
- Maximum orbit size: 40mm dia. (1.6" dia.)

Operating features

- 5°C above room temperature to 60°C for SI-300, 600
15°C to 60°C for SI-300R, 600R
- Uniformity $\pm 1.0^\circ\text{C}$ at 38°C (based on various conditions)
- Microprocess PID control/ Auto-tuning/ Calibration
- Digital timer: 1 min to 99 hr 59 min, delayed ON/ OFF
- Over-temperature limiter/ Door opening alarm
- Digital LED display for temperature (0.1°C resolution), speed, and shaking motions
- 3 different temperature values memorable
- 9 steps of temperature profiles programmable and repeat up to 200 cycles
- Adjustable fan speed within 3 steps
- RS-232 interface available

Constructional features

- Brushless DC motor for long maintenance-free operation
- High-velocity fan ensures rapid thermal recovery and excellent uniformity



Inside fo SI series

- Air spring door and lid guard against sudden closures
- Transparent acryl lid and inner lamp functions allow observation of flask contents
- Use CFC-free refrigerant (SI-300R/ 600R)

Optional Accessories

see page 11-13

- Universal/ Dedicated platforms, Rubber mats, Universal attachments
- Flask clamps, Funnel clamps
- Test tube racks, Spring wire racks
- Microplate holders (three styles)
- Sticky pads

Specifications & Ordering Informations



Model		SI-300	SI-300R	SI-600	SI-600R
Temperature	Range	Amb. +5°C to 60°C (Amb. +9°F to 140°F) for SI-300, 600 +15°C to 60°C (+59°F to 140°F) for SI-300R, 600R			
	Accuracy	$\pm 0.1^\circ\text{C}$ at 38°C ($\pm 0.18^\circ\text{F}$ at 100°F) at room temp. +25°C (+77°F)			
	Uniformity	$\pm 1.0^\circ\text{C}$ at 38°C ($\pm 1.8^\circ\text{F}$ at 100°F) at room temp. +25°C (+77°F)			
	Refrigerator	-	1/8 HBP	-	1/8 HBP
Shaking system	Motion type	Orbital or Reciprocating motion selectable			
	Frequency	10 to 300 rpm			
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause: 10 sec to 59 min 50 sec			
	Orbit size (mm dia.)	20, 30, 40mm dia. (0.8, 1.2, 1.6" dia.) Available/ Standard - 30mm dia. (1.2" dia.)			
Dimensions	Recip stroke length (mm)	20, 30, 40mm (0.8, 1.2, 1.6") Available/ Standard - 30mm (1.2")			
	Platform (W×L)	330×330mm (13.0×13.0")		410×410mm (16.1×16.1")	
	Internal (W×D×H)/ Volume	410×410×320mm/ 53L (16.1×16.1×12.6"/ 1.9cu ft)		510×510×320mm/ 83L (20.1×20.1×12.6"/ 2.9cu ft)	
	Overall (W×D×H)	440×740×622mm (17.3×29.1×24.5")		540×850×622mm (21.3×33.5×24.5")	
	Net weight	74.0kg (163.0lb)	85.0kg (187.0lb)	91.0kg (200.0lb)	102.0kg (225.0lb)
Electrical Requirements [230V]		50/60Hz, 4.0A	60Hz, 5.5A	50/60Hz, 4.0A	60Hz, 5.5A
Cat. No.		AAH23105K	AAH23111K	AAH23112K	AAH23205K
Electrical Requirements [120V]		50/60Hz, 7.5A	60Hz, 10.1A	50/60Hz, 7.5A	60Hz, 10.1A
Cat. No.		AAH23106U	AAH23113U	AAH23206U	AAH23213U

* Permissible Environmental Condition: Temperature 5~40°C(41~104°F), Maximum relative humidity 80%