

# Incubated Shaker Tabletop type

## Provides convenient internal observation environment

### Structural Functional Features

- Model optimized for use on experiment bench.
- Up to 80°C, 500rpm enables setting of various experimental conditions.
- Three operating modes: Temperature & Shaking, Temperature, or Shaking.
- Door structure allows for easy sample removal/attach at the front.
- Shaking structure with minimized vibration.
- Four models according to refrigeration system and the size of the platform.



### IST series

with Universal Platform, Flask Clamp (option)

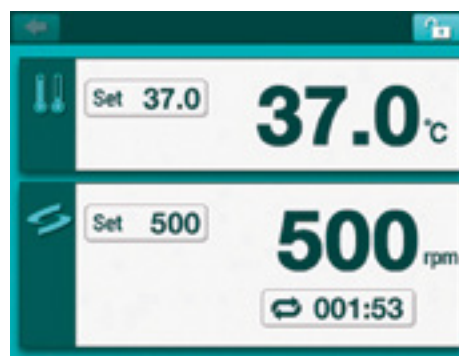
### Use Convenience Features

- Accurate rpm and temperature control through temperature auto-tuning / microprocessor PID and calibration.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)
- Countdown timer (999 hours 59 minutes) of shaking operation.
- Intuitive operation with color touch display.
- High brightness / low-power LED illumination makes it easy to observe inside.
- Spill drain port for internal cleanliness and easy maintenance.



### Outstanding Safety

- Over temperature limit function.
- Soft start and stop shaking function.
- Malfunction prevented by controller lock function.
- Displays all information such as device operation and error occurrence.
- Overcurrent protection device restricts operation when objects are caught inside the system and shaking is not possible.

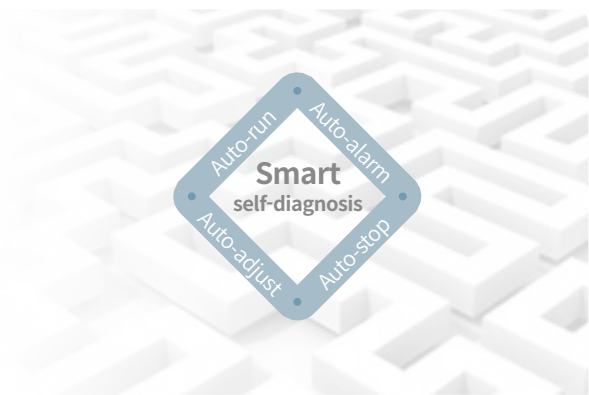


Color touch display



## Smart Self-diagnosis

- Real-time self-diagnostics to check equipment for abnormal conditions.
- Alarm is generated by monitoring difference between actual rpm/temperature and set rpm/temperature.
- Automatic rpm adjustment when device instability occurs. (high rpm, overload, weight imbalance, etc.)
- Detects abnormal conditions relating to the platform on which the sample is placed and stops the operation.
- Automatic restart as it was operated after power recovery.



## Specification

Model	IST-3075		IST-3075R		IST-4075		IST-4075R	
<b>Temperature</b>								
Range (°C / °F)	Amb. +5 to 80 / Amb. +9 to 176		Amb. -15 (Min. 15) to 80 / Amb. -27 (Min. 27) to 176		Amb. +5 to 80 / Amb. +9 to 176		Amb. -15 (Min. 15) to 80 / Amb. -27 (Min. 27) to 176	
Fluctuation at 37°C in flask (±°C / °F)	0.1 / 0.18		0.1 / 0.18		0.1 / 0.18		0.1 / 0.18	
Variation at 37°C in flask (±°C / °F)	0.5 / 0.90		0.5 / 0.90		0.5 / 0.90		0.5 / 0.90	
Refrigerator (Hp)	-		1/6		-		1/6	
<b>Shaking system</b>								
Motion type	Orbital		Orbital		Orbital		Orbital	
Speed range (rpm)	20 to 500		20 to 500		20 to 500		20 to 500	
Max. speed per permissible load (rpm)	500 (max. 10 kg / 22.0 lbs) 400 (max. 15 kg / 33.1 lbs)		500 (max. 10 kg / 22.0 lbs) 400 (max. 15 kg / 33.1 lbs)		500 (max. 14 kg / 30.9 lbs) 400 (max. 21 kg / 46.3 lbs)		500 (max. 14 kg / 30.9 lbs) 400 (max. 21 kg / 46.3 lbs)	
Amplitude size (mm / inch, dia.)	19.1 / 0.75		19.1 / 0.75		19.1 / 0.75		19.1 / 0.75	
Speed stability <sup>2)</sup> (rpm, %)	±1		±1		±1		±1	
Timer (count-down)	999 hr 59 min.		999 hr 59 min.		999 hr 59 min.		999 hr 59 min.	
<b>Dimension</b>								
Chamber volume (L / cu ft)	53 / 1.9		53 / 1.9		83 / 2.9		83 / 2.9	
Platform (W x D, mm / inch)	350 x 350 / 13.8 x 13.8		350 x 350 / 13.8 x 13.8		450 x 450 / 17.7 x 17.7		450 x 450 / 17.7 x 17.7	
Interior (W x D x H, mm / inch)	410 x 410 x 320 / 16.1 x 16.1 x 12.6		410 x 410 x 320 / 16.1 x 16.1 x 12.6		510 x 510 x 320 / 20.1 x 20.1 x 12.6		510 x 510 x 320 / 20.1 x 20.1 x 12.6	
Exterior (W x D x H, mm / inch)	440 x 785 x 510 / 17.3 x 30.9 x 20.1		440 x 785 x 510 / 17.3 x 30.9 x 20.1		540 x 890 x 510 / 21.3 x 35 x 20.1		540 x 890 x 510 / 21.3 x 35 x 20.1	
Net weight (Kg / lbs)	65 / 143.3		73 / 160.9		81 / 178.6		90 / 198.4	
<b>Electrical requirements (230V, A)</b>	60Hz, 4    50Hz, 4		60Hz, 5.5    50Hz, 5.5		60Hz, 4    50Hz, 4		60Hz, 5.5    50Hz, 5.5	
<b>Cat. No.</b>	<b>AAH23411K</b>	<b>AAH23422K</b>	<b>AAH23511K</b>	<b>AAH23522K</b>	<b>AAH23611K</b>	<b>AAH23622K</b>	<b>AAH23711K</b>	<b>AAH23722K</b>
<b>Electrical requirements (120V, A)</b>	60Hz, 7.5		60Hz, 10.1		60Hz, 7.5		60Hz, 10.1	
<b>Cat. No.</b>	<b>AAH23465U</b>		<b>AAH23565U</b>		<b>AAH23665U</b>		<b>AAH23765U</b>	

1) The temperature control range of the IST-3075 and IST-4075 models are from 5°C above the ambient temperature of the equipment. (15°C to 40°C) to 80°C The temperature control range of the IST-3075R and IST-4075R models are from 15°C below the ambient temperature (18°C to 35°C) of the device to 80°C. (However, the lowest control temperature is 15°C)  
 2) Actual rpm allowable error for set rpm is ±1rpm if setting is less than 100rpm, ±1% if setting is higher than 100rpm.

## Accessories Page 106

Universal Platform, Flask Clamp, Funnel Clamp, Test Tube Rack, Microplate Holder, Lab Sticker, Spring Wire Rack, Dedicated Platform, Rubber Mat, Universal Attachment, LC GreenBox