

Incubated Shaker

Multi-stackable type

Maximal space-saving multi-stackable model

Structural Functional Features

- Large-capacity triple stackable incubated shaker.
- Up to 80°C, 400rpm enables experimental conditions for various applications.
- Three operating modes: Temperature & Shaking, Temperature, or Shaking.
- Shaking structure with minimized vibration.
- Convenient to change samples with glide-up door.
- Stable shaking of high-load samples. (patent registered: 10-1678160)

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.
- Stand with adjustable feet to ensure a level installation, and retractable casters to allow positioning prior to installation. (Retractable Foot Caster)

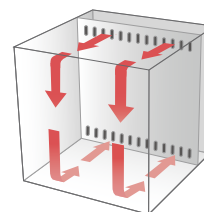
Outstanding Safety

- Electronic over temperature protection system. (A-OT, advanced over temperature limiter)
Independent precision temperature sensor and controller provides more secure and reliable over temperature protection.
- Conventional over-temperature protection system. (B-OT, backup over temperature limiter)
A backup device against electronic system failure, mechanically preventing over temperature even when there are electronic errors.
- 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.



ISS-7100R

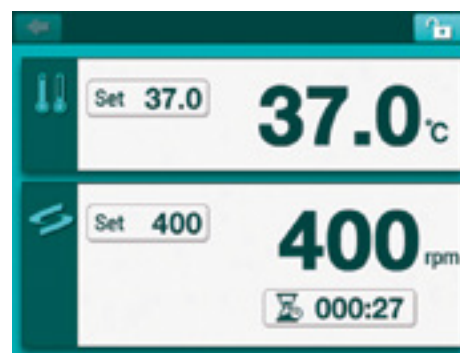
with Universal Platform, Flask Clamp (option)



Door lift-up structure for safe and convenient sample handling.



Rail-type platform allowing samples to be removed/mounted by pulling out the platform to the front.



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.

DD Shaking System Patented

Powerful DD motor for large-capacity shaking
The triple cam system provides stable shaking with high load samples.
(patent registration : 10-1678160)



Specification

Model	ISS-7100		ISS-7100R		ISS-7200		ISS-7200R	
Temperature								
Range (°C / °F)	Amb. +10 to 80 / Amb. +18 to 176		Amb. -20 (Min. 4) to 80 / Amb. -36 (Min. 7.2) to 176		Amb. +10 to 80 / Amb. +18 to 176		Amb. -20 (Min. 4) to 80 / Amb. -36 (Min. 7.2) 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)	0.6 / 1.08		0.5 / 0.90		0.6 / 1.08		0.5 / 0.90	
Refrigerator (Hp)	-		1/6		-		1/6	
Shaking system								
Motion type	Orbital		Orbital		Orbital		Orbital	
Speed range (rpm)	30 to 400 (stackable : 30 to 250)		30 to 400 (stackable : 30 to 250)		30 to 300 (stackable : 30 to 200)		30 to 300 (stackable : 30 to 200)	
Max. speed per permissible load (rpm)	1 unit only 400 (max. 20 kg / 44.1 lbs)		1 unit only 400 (max. 20 kg / 44.1 lbs)		1 unit only 300 (max. 20 kg / 44.1 lbs)		1 unit only 300 (max. 20 kg / 44.1 lbs)	
	Stacked units 250 (max. 15 kg / 33.1 lbs) 200 (max. 20 kg / 44.1 lbs)		Stacked units 250 (max. 15 kg / 33.1 lbs) 200 (max. 20 kg / 44.1 lbs)		Stacked units 200 (max. 15 kg / 33.1 lbs) 150 (max. 20 kg / 44.1 lbs)		Stacked units 200 (max. 15 kg / 33.1 lbs) 150 (max. 20 kg / 44.1 lbs)	
Amplitude size (mm / inch, dia.)	25.4 / 1		25.4 / 1		50.8 / 2		50.8 / 2	
Speed stability ²⁾ (rpm, %)	±1		±1		±1		±1	
Timer (count-down)	999 hr 59 min.		999 hr 59 min.		999 hr 59 min.		999 hr 59 min.	
Dimension (1 unit)								
Chamber volume (L / cu ft)	198 / 7.0		198 / 7.0		198 / 7.0		198 / 7.0	
Platform (W x D, mm / inch)	755 x 520 / 29.7 x 20.5		755 x 520 / 29.7 x 20.5		755 x 520 / 29.7 x 20.5		755 x 520 / 29.7 x 20.5	
Interior (W x D x H, mm / inch)	809 x 624 x 393 / 31.9 x 24.6 x 15.5		809 x 624 x 393 / 31.9 x 24.6 x 15.5		809 x 624 x 393 / 31.9 x 24.6 x 15.5		809 x 624 x 393 / 31.9 x 24.6 x 15.5	
Exterior (W x D x H, mm / inch)	1 unit ; 1307 x 996 x 755 / 51.5 x 39.2 x 29.7 1 unit+stand-I or 2 units stacked ; 1307 x 996 x 1355 / 51.5 x 39.2 x 53.3 2 units+stand-II stacked ; 1307 x 996 x 1655 / 51.5 x 39.2 x 65.2 3 units stacked ; 1307 x 996 x 1955 / 51.5 x 39.2 x 77.0							
Net weight (Kg / lbs)	300 / 661.4		320 / 705.5		300 / 661.4		320 / 705.5	
Electrical requirements (230V, A)	60Hz, 3.7	50Hz, 3.7	60Hz, 5.6	50Hz, 5.6	60Hz, 3.7	50Hz, 3.7	60Hz, 5.6	50Hz, 5.6
Cat. No.	AAH238131K	AAH238132K	AAH238231K	AAH238232K	AAH239131K	AAH239132K	AAH239231K	AAH239232K
Electrical requirements (120V, A)	60Hz, 7.1		60Hz, 10		60Hz, 7.1		60Hz, 10	
Cat. No.	AAH238115U		AAH238215U		AAH239115U		AAH239215U	

1) The temperature control range of the ISS-7100 and ISS-7200 models are from 10°C above the ambient temperature of the equipment. (15°C to 40°C) to 80°C The temperature control range of the ISS-7100R and ISS-7200R models are from 20°C below the ambient temperature (18°C to 35°C) of the device to 80°C. (However, the lowest control temperature is 4°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, Stand, Stacking Kit, LC GreenBox