

## Incubated Shakers (Chamber)

Specially designed to be double-stacked on the floor or located on the lab benches for space saving.

Multi-purpose incubated shakers feature a wide range of temperature control and large chamber volume.



**REMOTE CONTROL**  
with your **MOBILE DEVICE**  
see page 8-9



### ISS-4075R / ISS-3075

with optional accessories

**Standard accessories** • Wire shelves (2ea)

**Optional accessories** • Universal platforms, Universal attachments, Flask clamps  
see page 95-97 • Retractable foot caster, Stacking kits for stackable chambers, Gateway

※ Above products design can be changed without prior notice.

Control display





## Performance

- Temperature range:
  - Ambient +5°C to 80°C for ISS-3075 / 4075.
  - Ambient -20°C (Min. 4) to 80°C for ISS-3075R / 4075R.
- Competitive high shaking speed up to 500 rpm. (Stackable up to 250rpm)
- Orbital shaking motion in 19.1mm diameter.
- Microprocessor PID control.
- Three point temperature calibration / Automatic tuning
- Wide speed range even with heavy workload.
  - Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion.
- Best effort run function intelligently manages its rpm to keep shaking even workload is out of its capacity.
  - Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.
- Pleasant test environment by the smooth acceleration and deceleration control.
  - Smooth start and smooth stop function prevents chemical spills from flasks or test tubes.
- High-velocity fan ensures uniform temperature distribution and rapid thermal recovery after door open.
- Air-tight silicone door seal to provide excellent temperature uniformity.

## Convenience

- Intuitive touch screen LCD controller with easy icons and logical menus.
- Easy-set digital timer for shaking operation. (1 min. to 999 hr. 59 min.)

- Wide sample monitoring.
  - Clear observation of samples without affecting inner chamber's environment thanks to the transparent viewing window with bright LED lamps.
- Repetitive task can be easily performed as the platform stops where it starts.
  - Stopping the shaking platform always at the same position is highly beneficial for automated dosing or sampling process.
- Two adjustable-height shelves provided allow static incubation or refrigeration, which increase storage capacity.
- Built-in electrical outlet with a safety cover inside the chamber.
- Corrosion resistance stainless steel interior.
- Easy-access drain system with a quick disconnect valve offers great convenience to clean up of spills.
- Built-in RS-232 port and USB port for external control and data collection.
- Retractable foot caster, beneficial for easy mobility during installation or relocation. (optional)
- Chambers stackable, up to two levels.

## Safety

- Automatic run after power interruption.
- Temperature and shaking speed deviation alarm.
- Over-current protection, Stalled platform check.
- Triple independent temperature monitor system.
  - Temperature deviation alarm (High/Low)
  - Electronic temperature limiter (High/Low)
  - Mechanical over-temperature limiter (High)
- Environment-friendly CFC-free refrigerant. (for ISS-3075R / 4075R)
- Audible and visible open door alarms.

Model		ISS-3075	ISS-3075R	ISS-4075	ISS-4075R	
Temperature	Range (°C / °F)	Amb. +5 to 80 / Amb. +9 to 176	Amb. -20 (Min. 4) to 80 / Amb. -36 (Min. 7.2) to 176	Amb. +5 to 80 / Amb. +9 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				
	Variation at 37°C in flask (±°C / °F)	0.5 / 0.90				
	Refrigerator (Hp)	-	1/6Hp	-	1/6Hp	
Shaking system	Motion type	Orbital				
	Amplitude size (mm / inch, dia.)	19.1 / 0.75				
	Speed range (rpm)	20 to 500 (stackable : 20 to 250)				
	Accuracy	±1% of set speed (>100rpm) / ±1 (≤100rpm)				
	Timer	1 min. to 999 hr 59 min.				
Dimension	Max. Load (kg / lbs)	10 / 22.0 at 500 rpm 15 / 33.1 at 400 rpm 15 / 33.1 at 250 rpm (stacked)		10 / 22.0 at 500 rpm 21 / 46.3 at 400 rpm 21 / 46.3 at 250 rpm (stacked)		
	Volume (L / cu ft)	80 / 2.8		150 / 5.3		
	Platform (WxD, mm / inch)	350x350 / 13.8x13.8		450x450 / 17.7x17.7		
	Interior (WxDxH, mm / inch)	440x440x418 / 17.3x17.3x16.5		540x540x518 / 21.3x21.3x20.4		
	Exterior (WxDxH, mm / inch)	578x815x854 / 22.8x32.1x33.6		678x895x934 / 26.7x35.2x36.8		
No. of wire shelf (standard / max.)	2 / 8		2 / 11			
Net weight (kg / lbs)	153 / 337.3		160 / 352.7		183 / 403.4	190 / 418.9
Electrical requirements (230V)	60Hz, 6.2A 50Hz, 6.2A		60Hz, 7.9A 50Hz, 7.9A		60Hz, 6.2A 50Hz, 6.2A	60Hz, 7.9A 50Hz, 7.9A
Cat. No.	AAH23431K AAH23432K		AAH23531K AAH23532K		AAH23631K AAH23632K	AAH23731K AAH23732K
Electrical requirements (120V)	60Hz, 9.5A		60Hz, 13A		60Hz, 9.5A 60Hz, 13A	
Cat. No.	AAH23415U		AAH23515U		AAH23615U AAH23715U	

\* Temp. change may occur during automatic defrost. (for ISS-3075R/4075R)

\* FDA establishment registered company. FDA listed products.