

Incubators

Incubated Shakers (Chamber Models)

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.



ISS-4075R / ISS-3075

Included Accessories

Optional Accessories

☛ see page 85-87

- 2 Wire Shelves
- Retractable Foot Caster
- Universal / Dedicated Platforms
- Rubber Mats, Universal Attachments

※ Above products design can be changed without prior notice.

Control Display



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Operating Features

General Control

- Intuitive touch screen LCD controller with easy icons and logical menus.
- Automatic run is available with non-volatile set point memory after power interruption.
- Built-in RS-232 port and USB port for external control and data collection.

Shaking Control

- Speed range: 10 to 500 rpm. (10 to 250rpm for the top unit of a stack)
- Orbit diameter: 19.1mm.
- Timer range: 1 min. to 999 hr 59 min.
- Audible/Visible alarm activated by shaking speed deviation.
- Worry-free operation.
 - Automatic shaking speed adjustment in case of excessive workload such as unbalanced load placement, unusual vibrations caused from unstable floor or external shock.
- Shaker protection system against over-current, stalled platform check.

Temperature Control

- Temperature range:
 - Amb. +5°C to 80 °C (for ISS-3075 / 4075)
 - Amb. -20°C (Min. +4) to 80°C (for ISS-3075R / 4075R)
- Microprocessor PID control and auto-tuning.
- Three point temperature calibration.
- Triple independent temperature monitor system.
 - Temperature deviation alarm (High/Low)
 - Electronic temperature limiter (High/Low)
 - Mechanical over-temperature limiter (High)

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

Constructional Features

- Chambers stackable, up to two levels.
- Wide speed range even with heavy workload.
 - Equipped with a maintenance-free BLDC motor to generate smooth, quiet, uniform, and yet powerful shaking motion.
- 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.
- Pleasant test environment by the smooth acceleration and deceleration control.
 - Smooth start and smooth stop function prevents chemical spills from flasks or test tubes.
- Wide sample monitoring.
 - Clear observation of samples without affecting inner chamber's environment thanks to the transparent viewing window with bright LED lamps.
- Easy-access drain system with a quick disconnect valve offers great convenience to clean up of spills.
- Two adjustable-height shelves provided allow static incubation or refrigeration, which increase storage capacity.
- Air-tight silicone door seal to provide excellent temperature uniformity.
- Corrosion resistance stainless steel interior.
- Three step adjustable high-velocity fan ensuring uniform temperature distribution and rapid thermal recovery after door open.
- Retractable foot caster, beneficial for easy mobility during installation or relocation. (optional)
- Built-in electrical outlet with a safety cover inside the chamber.
- Environment-friendly CFC-free refrigerant. (for ISS-3075R / 4075R)

Specifications & Ordering Information



Model		ISS-3075	ISS-3075R	ISS-4075	ISS-4075R				
Temperature	Min. Temp. (°C / °F)	Amb. +5 to 80 / Amb. +9 to 176	Amb. -20 (Min. +4) to 80 / Amb. -36 (Min. +72) to 176	Amb. +5 to 80 / Amb. +9 to 176	Amb. -20 (Min. +4) to 80 / Amb. -36 (Min. +72) 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)	10 to 500 (Stackable Top :10 to 250)							
	Accuracy	±1 % of set speed (>100rpm) / ±1 (<100rpm)							
	Timer	1 min. to 999 hr 59 min.							
	Max. Load (kg / lbs)	10 / 22.0 at 500 rpm 21 / 46.3 at 400 rpm							
Dimension	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)	578x812x854 / 22.8x31.9x33.6		678x892x934 / 26.7x35.1x36.8					
	Shelves (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, 5.2A	50Hz, 5.2A	60Hz, 7A	50Hz, 7A	60Hz, 5.2A	50Hz, 5.2A	60Hz, 76A	50Hz, 76A
Cat. No.		AAH23431K	AAH23432K	AAH23531K	AAH23532K	AAH23631K	AAH23632K	AAH23731K	AAH23732K
Electrical Requirements (120V)		60Hz, 9.9A		60Hz, 13.5A		60Hz, 9.9A		60Hz, 14.7A	
Cat. No.		AAH23415U		AAH23515U		AAH23615U		AAH23715U	

※ Permissible environmental conditions: temperature (15-40°C).

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