

# 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.			
Dimension	Max. Load (kg / lbs)	10 / 22.0 at 500 rpm 21 / 46.3 at 400 rpm			
	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	
Electrical Requirements (230V)	Net Weight (kg / lbs)	153 / 337.3		183 / 403.4	
		60Hz, 5.2A 50Hz, 5.2A		60Hz, 5.2A 50Hz, 5.2A	
Cat. No.		AAH23431K AAH23432K	AAH23531K AAH23532K	AAH23631K AAH23632K	AAH23731K AAH23732K
Electrical Requirements (120V)		60Hz, 9.9A		60Hz, 9.9A	
Cat. No.		AAH23415U		AAH23615U	

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

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