

Jeio Tech Benchtop Incubator Shakers (IST Series)

Brand: Jeio Tech

Jeio Tech's Benchtop Incubator Shakers (IST Series) are digital incubating/refrigerating benchtop shakers with a wide speed range, allowing laboratories to carry out effective sample monitoring with each model's maintenance-free BLDC motor, which produces a quiet but powerful shaking motion.

With four models to choose from, these benchtop shaking incubators each have an instinctive touch-screen LCD controller with easy icons and logical menus, along with a simple digital timer for shaking operations.

Features:

Performance:

- Temperature range ambient from +5°C to 80°C for IST-3075/4075 and -15°C (15 min.) to 80°C for IST-3075R/4075R.
- Competitive high shaking speed up to 500rpm.
- Orbital shaking motion in 19mm 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 a 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 the door is opened.
- 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 and convenient sample loading. Convenient sample monitoring without affecting inside environment thanks to the three side transparent acrylic lid with bright LED lamps. Gas spring lid supports providing smooth motion, soft opening and closing.
- 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 closing or sampling process.
- Corrosion resistance stainless steel interior.
- Built RS-232 port and USB port for external control and data collection.

Safety:

- Automatic run after power interruption.
- Temperature and shaking speed deviation alarm.
- Over-current protection, stalled platform check.
- Mechanical over-temperature protection device.
- Environment-friendly CFC-free refrigerant (for IST-3075R/4075R).
- Audible and visible open door alarms.



Specifications:

Model(s)		IST-3075	IST-3075R	IST-4075	IST-4075R
Product Code(s)		AAH23422K	AAH23522K	AAH23622K	AAH23722K
Temperature	Range (°C)	Amb. +5 to 80	Amb. -15 (Min. 15) to 80	Amb. +5 to 80	Amb. -15 (Min. 15) to 80
	Fluctuation at 37°C in Flask	± 0.1			
	Variation at 37°C in Flask	± 0.5			
	Refrigerator (Hp)	-	1/6	-	1/6
Shaking System	Motion Type	Orbital			
	Amplitude Size (mm)	19.1			
	Speed Range (rpm)	20 to 500			
	Accuracy	± 1% of set speed (>100rpm)/± 1 (≤100rpm)			
	Timer	1 min. to 999 hr. 59 min,			
	Max. Load (kg)	10 at 500rpm 15 at 400rpm		14 at 500rpm 21 at 400rpm	
Dimensions	Volume (litres)	53		83	
	Platform (w x d)	350 x 350mm		450 x 450mm	
	Internal (w x d x h)	410 x 410 x 320mm		510 x 510 x 320mm	
	External (w x d x h)	440 x 785 x 510mm		540 x 890 x 510mm	
	Net Weight (kg)	65	73	81	90
Electrical Requirements (230V)		50 Hz, 4A	50Hz, 5.5A	50Hz, 4A	50Hz, 5.5A
Max. Mountable Flask Clamps	Stainless Steel	For 50ml	36		49
		For 100ml	24		39
		For 250ml	14		20
		For 300ml			
		For 500ml	9		16
		For 1 Litre	6		9
		For 2 Litres	4		5
		For 2.8 Litres	2		4
	Plastic	For 50ml	36		49
		For 100 - 125ml	19		29
		For 200ml	13		21
		For 250ml	13		19
		For 300ml			
		For 500ml	9		12
For 1 Litre		4		9	
For 2 Litres		2		4	

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