

Incubator Shakers - Benchtop Models

Digital incubating / refrigerating benchtop shakers

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
- Orbit diameter: 19mm
- 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

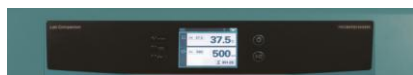
- Temperature range:
 - Amb. +5°C to 80°C (for IST-3075 / 4075)
 - Amb. -15°C (Min. +15) to 80°C (for IST-3075R / 4075R)
- Microprocessor PID control and auto-tuning
- Three point temperature calibration
- Two different mechanical over-temperature protection devices



Constructional Features

- 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 tasks 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 processes
- 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 and convenient sample loading
 - Convenient sample monitoring without affecting inside environment thanks to the three side transparent acryl lid with bright LED lamps
 - Gas spring lid supports providing smooth motion and soft opening and closing
- 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
- Environmentally friendly CFC-free refrigerant (for IST-3075R / 4075R)

Control Panel



Specifications



Model	IST-3075	IST-3075R	IST-4075	IST-4075R
Product Code	AAH23422K	AAH23522K	AAH23622K	AAH23722K
Temperature	Min. Temp (°C / °F)	Amb. +5 to 80 / Amb. +9 to 176	Amb. -15 (Min. +15) to 80 / Amb. -27 (Min. +27) to 176	Amb. +5 to 80 / Amb. +9 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 / 8 HBP (220V, 230V) 1 / 6 HBP (100V, 120V)	1 / 8 HBP (220V, 230V) 1 / 6 HBP (100V, 120V)
Shaking System	Motion type	Orbital		
	Amplitude Size (mm/ inch, dia.)	19.1 / 0.75		
	Speed Range (RPM)	10 to 500		
	Accuracy	± 1% of set speed (>100rpm) / ± 1 (<100rpm)		
	Timer	1min to 999 hr 59 min		
Dimensions	Max Load (kg / lbs)	10 / 22.0 at 500 rpm 15 / 33.1 at 400 rpm		14 / 30.9 at 500 rpm 21 / 46.3 at 400 rpm
	Volume (L / cu ft)	53 / 1.9		83 / 2.9
	Platform (WxD) (mm / inch)	350 x 350 / 13.8 x 13.8		450 x 450 / 17.7 x 17.7
	Internal (WxDxH) (mm / inch)	410 x 410 x 320 / 16.1 x 16.1 x 12.6		510 x 510 x 320 / 20.1 x 20.1 x 12.6
	Overall (WxDxH) (mm/inch)	440 x 785 x 510 / 17.3 x 30.9 x 20.1		540 x 890 x 510 / 21.3 x 35 x 20.1
	Net Weight (Kg/ lbs)	65 / 143.3	73 / 160.9	81 / 178.6
Electrical Requirements (230V)	50 Hz, 4A	50 Hz, 5.5A	50 Hz, 4A	50 Hz, 5.5A

IST-3075 / IST-4075R

- Universal / Dedicated Platforms, Rubber Mats, Universal Attachments
- Flask Clamps, Funnel Clamps
- Test Tube Racks, Spring Wire Racks

Optional Accessories: