Digital incubating/ refrigerating benchtop shakers.

Transparent lid offers great visibility and gas spring supports ensure hand-down handling of the samples by allowing immediate and easy access to your samples.

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

IST-3075 / IST-4075R

with optional dedicated platform and universal attachment

Optional accessories
see page 95-97
• Universal platforms, Rubber mats
• Flask clamps, Funnel clamps, Test tube racks, Gateway

※ Above products design can be changed without prior notice.

Control display

Gas spring lid

CE | CSA C US | RoHS Compliant | Safety Patented | Green CFC-Free | Computer Interface | Color Touch | 500 rpm | Best Effort Run | Temperature Calibration 3 Points | Over Temp. | Auto Run | Deviation Warning | Stalled Platform

Performance

- Temperature range:
  - Ambient +5°C to 80°C for IST-3075 / 4075.
  - Ambient -15°C (Min. 15) to 80°C for IST-3075R / 4075R.

- Competitive high shaking speed up to 500 rpm.

- 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 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 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, 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 dosing or sampling process.

- Corrosion resistance stainless steel interior.

- Built-in RS-232 port and USB port for external control and data collection.
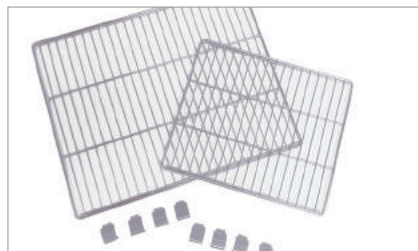
Safety

- 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.

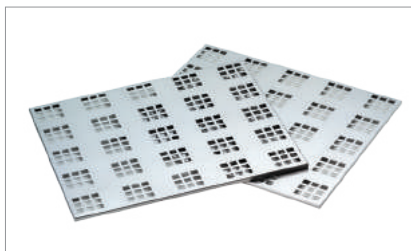| Model		IST-3075		IST-3075R		IST-4075		IST-4075R	
Temperature	Range (℃ / ℉)	Amb. +5 to 80 / Amb. +9 to 176		Amb. -15 (Min. 15) to 80 / Amb. -27 (Min. 27) to 176		Amb. +5 to 80 / Amb. +9 to 176		Amb. -15 (Min. 15) to 80 / Amb. -27 (Min. 27) to 176	
	Fluctuation at 37℃ in flask (±℃ / ℉)	0.1 / 0.18							
	Variation at 37℃ in flask (±℃ / ℉)	0.5 / 0.90							
	Refrigerator (Hp)	-		1 / 6 HBP		-		1 / 6 HBP	
Shaking system	Motion type	Orbital							
	Amplitude size (mm / inch, dia.)	19.1 / 0.75							
	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 / 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			
Dimension	Volume (L / cu ft)	53 / 1.9				83 / 2.9			
	Platform (W×D) (mm / inch)	350×350 / 13.8×13.8				450×450 / 17.7×17.7			
	Interior (W×D×H) (mm / inch)	410×410×320 / 16.1×16.1×12.6				510×510×320 / 20.1×20.1×12.6			
	Exterior (W×D×H) (mm / inch)	440x785x510 / 17.3x30.9x20.1				540x 890 x510 / 21.3x35x20.1			
	Net weight (Kg / lbs)	65 / 143.3		73 / 160.9		81 / 178.6		90 / 198.4	
Electrical requirements (230V)		60Hz, 4A	50Hz, 4A	60Hz, 5.5A	50Hz, 5.5A	60Hz, 4A	50Hz, 4A	60Hz, 5.5A	50Hz, 5.5A
Cat. No.		AAH23411K	AAH23422K	AAH23511K	AAH23522K	AAH23611K	AAH23622K	AAH23711K	AAH23722K
Electrical requirements (120V)		60Hz, 7.5A		60Hz, 10.1A		60Hz, 7.5A		60Hz, 10.1A	
Cat. No.		AAH23465U		AAH23565U		AAH23665U		AAH23765U	

※ FDA establishment registered company. FDA listed products.
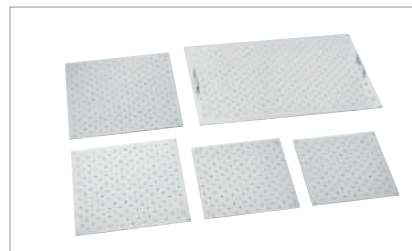
Accessories & Options

for Incubators

Wire shelves

Perforated shelves

Universal platforms

Wire shelves

Stainless steel and electro-polished shelves are readily removed without using tools for easy cleaning.

Cat. No.	Description			Suitable for
	Included	Maximum	W×L (mm / inch)	
EDA8136	2	7	366×316 / 14.4×12.4	IB-05G
EDA8135	2	11	446×366 / 17.6×14.4	IB-15G
EDA8137	2	11	576×419 / 22.7×16.5	IB-25G
EDA8136	2	10	366×316 / 14.4×12.4	IB-01E
EDA8220	2	13	466×490 / 17.6×19.3	IB-11E
EDA8219	2	14	566×466 / 22.3×17.6	IB-21E
EDA8136	4	14	366×316 / 14.4×12.4	IB-02G-2C
	8	28		IB-02G-4C
EDA8219	2	11	566×466 / 22.3×17.6	IL3-15(A)
	4	22		IL-11-2C
	8	44		IL-11-4C
EDA8220	3	25	466×490 / 17.6×19.3	IL3-25(A)
EDA8223	1	5	195×310 / 7.7×12.2	ILP-02
EDA8221	2	10	305×299 / 12×11.8	ILP-12
EDA8235	2	8	416×406 / 16.4×16.0	ISS-3075(R)
EDA8233	2	11	516×506 / 20.3×19.9	ISS-4075(R)
EDA8244	2	4	247×247 / 9.7×9.7	IM-10

Perforated shelves

Stainless steel shelves are readily removed without using tools for easy cleaning.

Cat. No.	Description		Suitable for
	Maximum	W×L (mm / inch)	
AAA12531	7	366×316 / 14.4×12.4	IB-05G
AAA12532	11	446×366 / 17.6×14.4	IB-15G
AAA12535	11	576×419 / 22.7×16.5	IB-25G
AAA12531	10	366×316 / 14.4×12.4	IB-01E
AAA22522	13	466×490 / 17.6×19.3	IB-11E
AAA22521	14	566×466 / 22.3×17.6	IB-21E
AAA12531	14	366×316 / 14.4×12.4	IB-02G-2C
	28		IB-02G-4C
AAA22521	11	566×466 / 22.3×17.6	IL3-15(A)
	22		IL-11-2C
	44		IL-11-4C
AAA22522	25	466×490 / 17.6×19.3	IL3-25(A)
AAA24501	5	195×310 / 7.7×12.2	ILP-02
AAA24502	10	305×299 / 12×11.8	ILP-12
AAA24511	4	247×247 / 9.7×9.7	IM-10

Stacking kits

Stackable up to 2 units using exclusive stacking kits for space saving.

Cat. No.	Description	Suitable for
AAA21521	Stacking kits for stackable chambers	IB-05G
AAA21522	Stacking kits for stackable chambers	IB-15G
AAA21523	Stacking kits for stackable chambers	IB-25G
AAA26501	Stacking kits for stackable chambers	IB-01E
AAA26502	Stacking kits for stackable chambers	IB-11E
AAA26503	Stacking kits for stackable chambers	IB-21E

Lab Companion

for Incubated Shakers

Flask clamps

Plastic clamps (plastic)

Funnel clamps

Dedicated platforms

Universal platforms / Flask clamps / Funnel clamps

Universal platforms provide flexibility for mixing assortments of test tubes and glassware of varying sizes on a single platform.
Various clamps for Erlenmeyer flasks and separatory funnels are available.

Description		Model	IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
		Platform size	350×350mm / 13.8x13.8inch	450×450mm / 17.7×17.7inch	755×520mm / 29.7×20.5inch	755×520mm / 29.7×20.5inch	350×350mm / 13.8x13.8inch	450×450mm / 17.7×17.7inch
Universal platform			AAA23501-V3	AAA23502-V3	AAA23503-V3	AAA23503-V4	AAA23501-V3	AAA23502-V3
Flask clamps (Stainless steel)	Erlenmeyer flask size		Max. mountable flask clamps					
	for 50 ml	AAA23550	36	49	88	88	36	49
	for 100 ml	AAA23551	24	39	68	68	24	39
	for 250 ml	AAA23552	14	20	39	39	14	24
	for 300 ml	AAA23556	14	20	39	39	14	24
	for 500 ml	AAA23553	9	16	28	28	9	16
	for 1L	AAA23554	6	9	18	18	6	9
	for 2L	AAA23555	4	5	11	11	4	6
	for 2.8L	AAA23557	2	4	8	8	2	5
	for 4L	AAA23558	-	-	6	6	-	4
	for 6L	AAA23559	-	-	5	-	-	2
Flask clamps (plastic)	Erlenmeyer flask size		Max. mountable flask clamps					
	for 50 ml	AAA30570	36	49	88	88	36	49
	for 100 ~ 125 ml	AAA30571	19	29	48	48	19	29
	for 200 ml	AAA30572	13	21	35	33	13	21
	for 250 ml	AAA30573	13	19	35	33	13	19
	for 300 ml	AAA30574	12	19	35	33	12	19
	for 500 ml	AAA30575	9	12	24	24	9	12
	for 1L	AAA30576	4	9	12	12	5	9
	for 2L	AAA30577	2	4	8	8	4	5
Funnel clamps	separatory funnel size		Max. mountable funnel clamps					
	for 250 ml	AAA23562	4	6	15	15	4	6
	for 500 ml	AAA23563	2	4	10	10	3	4
	for 1L	AAA23564	-	3	7	7	-	3
	for 2L	AAA23565	-	-	5	5	-	-

※ Above accessories need to be mounted on a universal platform which is sold separately.

Dedicated platforms

When using a single flask size only, the dedicated platforms with pre-installed clamps provide maximum capacity.
250mL and 500mL clamps are standard but other sizes can be available.

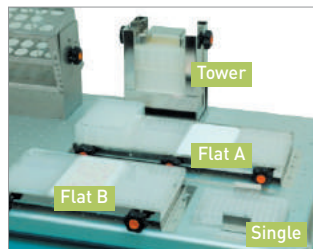| Description	IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Universal platform &250mL flask clamps	AAA23611-V1	AAA23623-V1	AAA23634	AAA23637	AAA23611-V1	AAA23621-V1
No. of flask clamps	14	20	39	39	14	20
Universal platform &500mL flask clamps	AAA23612-V1	AAA23622-V1	AAA23635	AAA23636	AAA23612-V1	AAA23622-V1
No. of flask clamps	9	16	28	28	9	16

* A dedicated platform is sold with setting each max. mountable amount of flask clamps on.
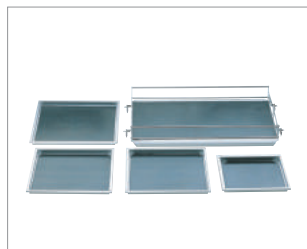
Incubators

Accessories & Options

for Incubated Shakers

Test tube racks

Microplate holders
(universal platform is optional)

Rubber mats

Universal attachments

Test tube racks

Easy to release and mount racks made of durable stainless steel with adjustable angle and tube height support. Test tube racks are used with an optional universal platform.

Description		IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Universal platform		AAA23501-V3	AAA23502-V3	AAA23053-V3	AAA23503-V4	AAA31501-V3	AAA23502-V3
Test tube size		Mountable capacity of rack*					
for 86 test tubes, ø8mm / ø0.3˝	AAA23581						
for 86 test tubes, ø10mm / ø0.4˝	AAA23582						
for 58 test tubes, ø12mm / ø0.5˝	AAA23583						
for 58 test tubes, ø14mm / ø0.6˝	AAA23584						
for 32 test tubes, ø17mm / ø0.7	AAA23585	2	4	7	7	2	4
for 19 test tubes, ø25mm / ø1.0˝	AAA23586						
for 10 test tubes, ø30mm / ø1.2˝	AAA23587						
for 10 test tubes, ø35mm / ø1.4˝	AAA23594						
for 4 test tubes, ø50mm / ø1.9˝	AAA23593						

* No declination
※ We can manufacture other size of test tube racks to meet your specific requirements. Contact us for details.

Microplate holders

Available in three styles: tower type, flat type (small and large), and single type. Tower type holder is for 10 standard or deep well plates. Large flat holder is for 4 standard or deep well plates. Small flat holder is for 3 standard or deep well plates. Single type holder is for 1 standard or deep well plate. (standard well plates' height: 14.7mm)

Description		IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Universal platform		AAA23501-V3	AAA23502-V3	AAA23053-V3	AAA23503-V4	AAA31501-V3	AAA23502-V3
Microplate holder type		Max. mountable microplate holders					
Single	AAA23654	8	15	25	25	8	15
Tower	AAA23651	5	8	21	21	6	10
Flat A(large)	AAA23652	-	2	4	4	-	2
Flat B(small)	AAA23653	2	2	6	6	2	3

* Microplate holders need to be mounted on an universal platform which is sold separately.

Rubber mats

Designed for low-speed applications, non-skid rubber mats allow quick addition or removal of flasks, plates or tubes.

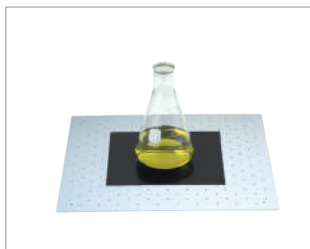| Description	IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Cat. No.	AAA23531	AAA23532	AAA23534	AAA23535	AAA31531	AAA31532

Universal attachments (utility carriers)

Several adjustable clamping bars for quickly securing a variety of glassware or tubes on non-skid rubber mats. Suitable for flat-bottomed flasks of various sizes.

Description	IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Cat. No.	AAA23511-V1	AAA23512-V1	AAA23505	AAA23513	AAA23511-V1	AAA23512-V1

Spring wire racks
(two tier rack with flexible crossed spring)

Lab sticker
(universal platform is optional)

Stand (stand 1 / stand 2)

Retractable foot caster

Spring wire racks

Ideal for holding a wide variety of tubes, flasks, and other glassware. All components are made of stainless steel.

Description	IST-3075(R)	IST-4075(R)	ISF-7100(R) ISF-7200(R)	ISS-7100(R) ISS-7200(R)	ISS-3075(R)	ISS-4075(R)
Cat.No.	AAA23521-V1	AAA23522-V2	AAA23514	AAA23526	AAA31521-V1	AAA31522-V1
Erlenmeyer flask size	Max. inserting flasks					
for 50 mL	16	25	45	45	16	25
for 100 mL	9	16	28	28	9	16
for 250 mL	4	9	18	18	4	9
for 300 mL	4	9	18	18	4	9
for 500 mL	4	5	15	15	4	5
for 1L	2	4	10	10	2	4
for 2L	1	2	6	6	1	2
for 2.8L	1	2	4	4	1	2

Lab sticker

An alternative method for securing vessels to a shaker platform. Ideal for containers such as bottles and dishes that cannot be held on the universal platform with conventional flask clamps. For safe operation, gradual RPM increase is recommended.

Cat. No.	Description (W×D×H) (mm / inch)
AAA30551	200×200×5 / 7.9×7.9×0.2

Stands

Perfectly designed to let users feel totally relaxed by leveling the height.

Cat. No.	Description	Suitable for
AAA23571	Stand 1 with Stacking kits (600mm / 23.6˝ height for stacking 1 unit)	ISS-7100(R), ISS-7200(R)
AAA23572	Stand 2 with Stacking kits (300mm / 11.8˝ height for stacking 2 units)	

Stacking kits

Units are stackable using exclusive stacking kits for space saving.

Cat. No.	Description	Suitable for
AAA23573	Stacking kits for stackable chambers	ISS-7100(R), ISS-7200(R)
AAA23811	Stacking kits for stackable chambers	ISS-3075(R)
AAA23812	Stacking kits for stackable chambers	ISS-4075(R)

Retractable foot caster

Highly beneficial for easy mobility during installation or relocation.

Cat. No.	Description	Suitable for
AAA23801	Retractable foot caster (700x733x145mm / 27.6x28.9x5.7˝)	ISS-3075(R)
AAA23802	Retractable foot caster (800x813x225mm / 31.5x32x8.9˝)	ISS-4075(R)

Gateway

Establish Jeio Tech Network by Gateway. No computer use is required at all. Remote monitoring of operating status through a mobile device (Android only) is simply available when you place a Gateway in your laboratory. Maximum 4 units can be connected to Gateway by RS-232 cable.

Cat. No.	Description	Suitable for
AAAQ1011	Gateway (2.4GHz, 100~240V, 50/60Hz)	IL3 models IST, ISF, ISS models

Gateway

Remote control through a mobile device
(Android only)