

General Application

Molecular biology, animal/plant cell culture, fermentation, genetics, new drug development, etc.

	Description	Temp. Range (°C/°F)	Motion Type	Max. Speed (rpm)	250 ml Flask Capacity	Model	Page
Multi-type Stackable	Stackable Model	Amb. +5 to 80 / Amb. +9 to 176	Orbital	500	24	ISS	98
		Amb. -20 (min. 4) to 80 / Amb. -36 (min. 7.2) to 176		500	24	ISS-R	98
	Stackable Model (Multi)	Amb. +10 to 80 / Amb. +18 to 176	Orbital	400	35	ISS-7100	100
		Amb. -20 (min. 4) to 80 / Amb. -36 (min. 7.2) to 176		400	35	ISS-7100R	100
		Amb. +10 to 80 / Amb. +18 to 176		300	35	ISS-7200	100
		Amb. -20 (min. 4) to 80 / Amb. -36 (min. 7.2) to 176		300	35	ISS-7200R	100
Single-type	Benchtop Model	Amb. +5 to 80 / Amb. +9 to 176	Orbital	500	20	IST	102
		Amb. -15 (min. 15) to 80 / Amb. -27 (min. 27) to 176		500	20	IST-R	102
	Floor Standing Model	Amb. +5 to 80 / Amb. +9 to 176	Orbital	500	39	ISF-7100	104
		Amb. -20 (min. 4) to 80 / Amb. -36 (min. 7.2) to 176		500	39	ISF-7100R	104
		Amb. +5 to 80 / Amb. +9 to 176		300	39	ISF-7200	104
		Amb. -20 (min. 4) to 80 / Amb. -36 (min. 7.2) to 176		300	39	ISF-7200R	104

※ The contents of the above and the contents of this catalog may differ depending on the specific model and conditions of use. For the information about the features and specifications that applying to each models, please check the information on the corresponding page of each models.

	Satisfaction with the requirements of European regulations and guidelines.		Certification of conformity of electricity, gas, etc. in accordance with the safety standards of Canada and USA.		Real-time equipment monitoring and control system using mobile app.
	Registered patent based on JEIO TECH's proprietary technology.		Compliance with Guidelines for Restriction of Hazardous Substances Use.		Eco-friendly product that has passed environmental impact assessment tests.
	Intuitive operation with Color Touch display.		Orbital motion either clockwise or counterclockwise direction can be set.		Possible to set end time or start time of device operation.
	Warning alarm in case of deviation of temperature control.		Electronic over temperature protection system.		Conventional over temperature protection, a kind of backup device against electronic over temperature protection failure.
	PC communication via RS-232 / RS-485 / USB port.		It memorizes the state of power failure and operates automatically when power is restored.		2 year warranty Free A/S.

Incubated Shaker Tabletop type

Provides convenient internal observation environment

Structural Functional Features

- Model optimized for use on experiment bench.
- Up to 80°C, 500rpm enables setting of various experimental conditions.
- Three operating modes: Temperature & Shaking, Temperature, or Shaking.
- Door structure allows for easy sample removal/attach at the front.
- Shaking structure with minimized vibration.
- Four models according to refrigeration system and the size of the platform.



Use Convenience Features

- Accurate rpm and temperature control through temperature auto-tuning / microprocessor PID and calibration.
- Monitor via mobile app anytime, anywhere with LC Connected. (mobile monitoring system) (when purchased LC GreenBox)
- Countdown timer (999 hours 59 minutes) of shaking operation.
- Intuitive operation with color touch display.
- High brightness / low-power LED illumination makes it easy to observe inside.
- Spill drain port for internal cleanliness and easy maintenance.

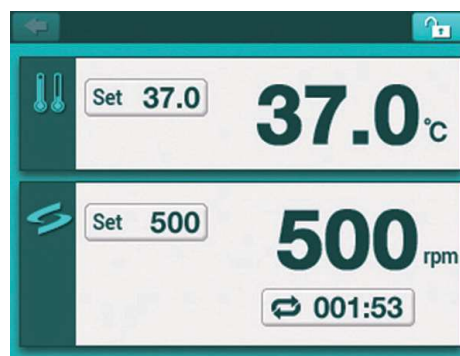
IST series

with Universal Platform, Flask Clamp (option)



Outstanding Safety

- Over temperature limit function.
- Soft start and stop shaking function.
- Malfunction prevented by controller lock function.
- Displays all information such as device operation and error occurrence.
- Overcurrent protection device restricts operation when objects are caught inside the system and shaking is not possible.

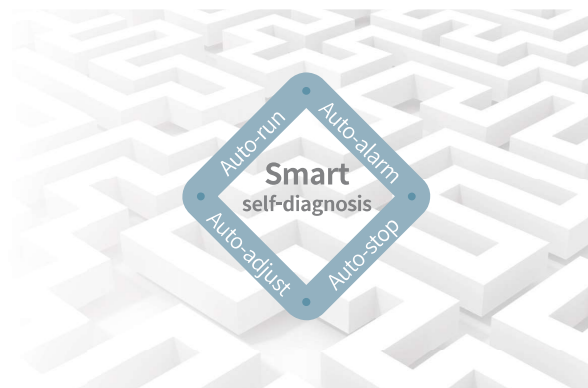


Color touch display



Smart Self-diagnosis

- Real-time self-diagnostics to check equipment for abnormal conditions.
- Alarm is generated by monitoring difference between actual rpm/temperature and set rpm/temperature.
- Automatic rpm adjustment when device instability occurs. (high rpm, overload, weight imbalance, etc.)
- Detects abnormal conditions relating to the platform on which the sample is placed and stops the operation.
- Automatic restart as it was operated after power recovery.



Specification

Model	IST-3075		IST-3075R		IST-4075		IST-4075R	
Temperature								
Range (°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		Amb. -15 (Min. 15) to 80 / Amb. -27 (Min. 27) to 176	
Fluctuation at 37°C in flask (±°C / °F)	0.1 / 0.18		0.1 / 0.18		0.1 / 0.18		0.1 / 0.18	
Variation at 37°C in flask (±°C / °F)	0.5 / 0.90		0.5 / 0.90		0.5 / 0.90		0.5 / 0.90	
Refrigerator (Hp)	-		1/6		-		1/6	
Shaking system								
Motion type	Orbital		Orbital		Orbital		Orbital	
Speed range (rpm)	20 to 500		20 to 500		20 to 500		20 to 500	
Max. speed per permissible load (rpm)	500 (max. 10 kg / 22.0 lbs) 400 (max. 15 kg / 33.1 lbs)		500 (max. 10 kg / 22.0 lbs) 400 (max. 15 kg / 33.1 lbs)		500 (max. 14 kg / 30.9 lbs) 400 (max. 21 kg / 46.3 lbs)		500 (max. 14 kg / 30.9 lbs) 400 (max. 21 kg / 46.3 lbs)	
Amplitude size (mm / inch, dia.)	19.1 / 0.75		19.1 / 0.75		19.1 / 0.75		19.1 / 0.75	
Speed stability ²⁾ (rpm, %)	±1		±1		±1		±1	
Timer (count-down)	999 hr 59 min.		999 hr 59 min.		999 hr 59 min.		999 hr 59 min.	
Dimension								
Chamber volume (L / cu ft)	53 / 1.9		53 / 1.9		83 / 2.9		83 / 2.9	
Platform (W x D, mm / inch)	350 x 350 / 13.8 x 13.8		350 x 350 / 13.8 x 13.8		450 x 450 / 17.7 x 17.7		450 x 450 / 17.7 x 17.7	
Interior (W x D x H, mm / inch)	410 x 410 x 320 / 16.1 x 16.1 x 12.6		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		510 x 510 x 320 / 20.1 x 20.1 x 12.6	
Exterior (W x D x H, mm / inch)	440 x 785 x 510 / 17.3 x 30.9 x 20.1		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		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		90 / 198.4	
Electrical requirements (230V, A)	60Hz, 4	50Hz, 4	60Hz, 5.5	50Hz, 5.5	60Hz, 4	50Hz, 4	60Hz, 5.5	50Hz, 5.5
Cat. No.	AAH23411K	AAH23422K	AAH23511K	AAH23522K	AAH23611K	AAH23622K	AAH23711K	AAH23722K
Electrical requirements (120V, A)	60Hz, 7.5		60Hz, 10.1		60Hz, 7.5		60Hz, 10.1	
Cat. No.	AAH23465U		AAH23565U		AAH23665U		AAH23765U	

1) The temperature control range of the IST-3075 and IST-4075 models are from 5°C above the ambient temperature of the equipment. (15°C to 40°C) to 80°C. The temperature control range of the IST-3075R and IST-4075R models are from 15°C below the ambient temperature (18°C to 35°C) of the device to 80°C. (However, the lowest control temperature is 15°C)

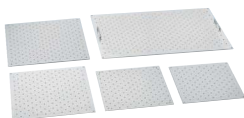
2) Actual rpm allowable error for set rpm is ±1rpm if setting is less than 100rpm, ±1% if setting is higher than 100rpm.

Accessories Page 106

Universal Platform, Flask Clamp, Funnel Clamp, Test Tube Rack, Microplate Holder, Lab Sticker, Spring Wire Rack, Dedicated Platform, Rubber Mat, Universal Attachment, LC GreenBox

Accessories

Universal Platform



Universal Platform

Basic accessories required to use Erlenmeyer flasks, test tubes, separated funnels, etc.

Accessories for Universal Platform



Flask Clamp (Stainless Steel)

Erlenmeyer flask mounting (50 ml - 6 L)
High-strength spring maintains excellent clamping.



Flask Clamp (Plastic)

Erlenmeyer flask mounting (50 ml - 2 L)
Reduced noise with plastic body and rubber on the bottom. (Using under 40°C, and under 300rpm)



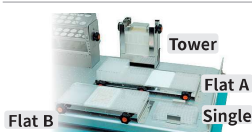
Funnel Clamp

Separated funnel mounting (250 ml - 2L)
Easy detachment/attachment and stable clamping.



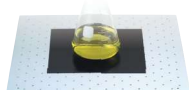
Test Tube Rack

Test tube mounting (Φ8 mm - Φ35 mm)
Easily adjustable angle.



Microplate Holder

Various options for Microplate
Single, Tower, Flat A (Large), Flat B (Small)



Lab Sticker

Excellent adhesion as size is 200x200mm, allowing for application to petri dishes, culture bottles, etc.
Temp. Range (°C): 15~60 Max. Speed (rpm): 250

LC GreenBox



LC GreenBox

Monitor the operation status of the device in real time via the mobile app with a simple internet connection.

Set Accessories



Spring Wire Rack

Fixed with 2-stage grid springs to accommodate various sample container shapes.



Dedicated Platform

Accessories (250 mL, 500 mL) installed on platform with maximum quantity of flask clamps.



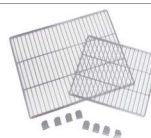
Rubber Mat

Convenient for use with culture bottles and petri dishes with rubber mat to prevent slipping on the bottom.



Universal Attachment

Rubber mat on the bottom and adjustable clamping rod make it a convenient structure for a wide range of applications.



Wire Shelf

Shelf and its bracket enabling sample loading.
(applied to ISS-3075(R)/4075(R) series)



Retractable Foot Caster

Device that makes it easy to move/fix.
(applied to ISS-3075(R)/4075(R) series)



Stand 1 & 2

When using 1 unit of the ISS-7000 model or when using more than 2 units stackable, different height of stands provide convenient access to a platform.



Stacking Kit

Fixing tool for stacked units.
Applied to ISS series models.

Description	IST-3075 Series	IST-4075 Series	ISS-3075 Series	ISS-4075 Series	ISF-7000 Series	ISS-7000 Series
Dedicated Platform (250 ml)	AAA23611-V1	AAA23623-V1	AAA23611-V1	AAA23621-V1	AAA23634	AAA23637
Dedicated Platform (500 ml)	AAA23612-V1	AAA23622-V1	AAA23612-V1	AAA23622-V1	AAA23635	AAA23636
Rubber Mat	AAA23531	AAA23532	AAA23531-V1	AAA23532-V1	AAA23534	AAA23537
Universal Attachment	AAA23511-V1	AAA23512-V1	AAA23511-V1	AAA23512-V1	AAA23505	AAA23517
Lab Sticker	AAA30551	AAA30551	AAA30551	AAA30551	AAA30551	AAA30551
Wire Shelf	-	-	00EDA0008235	00EDA0008233	-	-
Stand 1 with Stacking kits (600 mm height for stacking 1 unit)	-	-	-	-	-	AAA23571
Stand 2 with Stacking kits (300 mm height for stacking 2 unit)	-	-	-	-	-	AAA23572
Retractable Foot Caster	-	-	AAA23801	AAA23802	-	-
Stacking Kit	-	-	AAA23811	AAA23812	-	AAA23573

LC GreenBox

Description	Dimension (W x D x H, mm/inch)	IST-3075 Series	IST-4075 Series	ISS-3075 Series	ISS-4075 Series	ISF-7000 Series	ISS-7000 Series
LC GreenBox	156 x 94 x 34 / 6.1 x 3.7 x 1.3	AAAQ1011	AAAQ1011	AAAQ1011	AAAQ1011	AAAQ1011	AAAQ1011

Description		Model	IST-3075 Series	IST-4075 Series	ISS-3075 Series	ISS-4075 Series	ISF-7000 Series	ISS-7000 Series
		Platform Size (mm/inch)	350 x 350 / 13.8 x 13.8	450 x 450 / 17.7 x 17.7	350 x 350 / 13.8 x 13.8	450 x 450 / 17.7 x 17.7	755 x 520 / 29.7 x 20.5	755 x 520 / 29.7 x 20.5
Universal Platform		Cat. No.	AAA23501-V3	AAA23502-V3	AAA23501-V3	AAA23502-V3	AAA23503-V3	AAA23507
Flask Clamp for Erlenmeyer Flask (Stainless Steel)	50 ml	AAA23550	36	49	36	49	88	88
	100 ml	AAA23551	24	39	24	39	68	68
	250 ml	AAA23552	14	20	14	24	39	39
	300 ml	AAA23556	14	20	14	24	39	39
	500 ml	AAA23553	9	16	9	16	28	28
	1 L	AAA23554	6	9	6	9	18	18
	2 L	AAA23555	4	5	4	6	11	11
	2.8 L	AAA23557	2	4	2	5	8	8
	4 L	AAA23558	-	-	-	4	6	6
	6 L	AAA23559	-	-	-	2	5	-
Flask Clamp for Erlenmeyer Flask (Plastic) ¹⁾	50 ml	AAA30570	36	49	36	49	88	88
	100~125 ml	AAA30571	19	29	19	29	48	48
	200 ml	AAA30572	13	21	13	21	35	35
	250 ml	AAA30573	13	19	13	19	35	34
	300 ml	AAA30574	12	19	12	19	35	34
	500 ml ²⁾	AAA30575	9	12	9	12	24	21
	1 L ²⁾	AAA30576	4	9	5	9	12	11
	2 L ²⁾	AAA30577	2	4	4	5	8	6
Funnel Clamp	250 ml	AAA23562	4	6	4	6	15	15
	500 ml	AAA23563	2	4	3	4	10	10
	1 L	AAA23564	-	3	-	3	7	7
	2 L	AAA23565	-	-	-	-	5	5
Test Tube Rack ³⁾	Ø8 mm (86ea)	AAA23581	2	4	2	4	7	7
	Ø10 mm (86ea)	AAA23582	2	4	2	4	7	7
	Ø12 mm (58ea)	AAA23583	2	4	2	4	7	7
	Ø14 mm (58ea)	AAA23584	2	4	2	4	7	7
	Ø17 mm (32ea)	AAA23585	2	4	2	4	7	7
	Ø25 mm (19ea)	AAA23586	2	4	2	4	7	7
	Ø35 mm (10ea)	AAA23594	2	4	2	4	7	7
Microplate Holder	Single	AAA23654	8	15	8	15	25	25
	Tower	AAA23651	5	8	6	10	21	21
	Flat A (Large)	AAA23652	-	2	-	2	4	4
	Flat B (Small)	AAA23653	2	2	2	3	6	6

1) In the case of plastic flask clamps mounting, deformation may occur at temperatures over 40°C. Stainless steel flask clamps are recommended when using over 40°C and high temperature environment.

2) Possible to use under 300rpm

3) Maximum quantity on each platform. (no angle condition for test tube rack), it is the maximum quantity that does not cause the rack to tilt.

Description		IST-3075 Series	IST-4075 Series	ISS-3075 Series	ISS-4075 Series	ISF-7000 Series	ISS-7000 Series
Spring Wire Rack (Cat. No.)		AAA23521-V1	AAA23522-V2	AAA31521-V1	AAA31522-V1	AAA23514	AAA23527
Quantity of Erlenmeyer Flask	50 ml	16	25	16	25	45	45
	100 ml	9	16	9	16	28	28
	250 ml	4	9	4	9	18	18
	300 ml	4	9	4	9	18	18
	500 ml	4	5	4	5	15	15
	1 L	2	4	2	4	10	10
	2 L	1	2	1	2	6	6
	2.8 L	1	2	1	2	4	4