



Incubators

General Incubators.
Low Temperature Incubators.
Low Temperature Personal Incubators.
Incubated & Refrigerated & Illuminated Shakers.

Selection Guide

Incubators

Description		Operating Temp. Range [°C/°F]	Chamber Volume (L / cu ft)	Temperature Fluctuation at 37°C [± °C/°F]	Temperature Variation at 37°C [± °C/°F]	Page
General Purpose	IB-05G	Amb. +5 to 70 / Amb. +9 to 158	60 / 2.1	0.1 / 0.18	0.6 / 1.08	36
	IB-15G		102 / 3.6		0.2 / 0.36	
	IB-25G		151 / 5.3	0.2 / 0.36	0.6 / 1.08	
Economy	IB-01E	Amb. +3 to 60 / Amb. +5.4 to 140	65 / 2.3	0.2 / 0.36	0.6 / 1.08	37
	IB-11E		150 / 5.3	0.3 / 0.54	0.8 / 1.44	
	IB-21E		205 / 7.2	0.1 / 0.18	1.1 / 1.98	

Low Temperature Incubators

Description		Operating Temp. Range [°C/°F]	Chamber Volume (L / cu ft)	Temperature Fluctuation at 25°C [± °C/°F]	Temperature Variation at 25°C [± °C/°F]	Page
Forced (Mechanical Convection)	IL-11	0 to 60 / +32 to 140	150 / 5.3	0.1 / 0.18	0.5 / 0.9	38
	IL-21		224 / 8.6		0.4 / 0.72	
Natural (Gravity) Convection-Air Jacketed	IL-11A	+4 to 60 / +39.2 to 140	162 / 5.7	0.2 / 0.36	0.5 / 0.9	40
	IL-21A		254 / 9.0			
Personal (Compact)	ILP-02	10-40°C at ambient temperature 25°C	14 / 0.5	0.1 / 0.18	0.5 / 0.9	41
	ILP-12		48 / 1.7		0.4 / 0.72	

Incubated & Refrigerated & Illuminated Shakers

Description.			Operating Temp, Range [°C/°F]	Speed Range [RPM]	Maximum Orbit Size	Page	
Benchtop type	SI-300	Incubated Shakers	Amb. +5 to 60 / Amb. +9 to 140	10 to 300	40mm dia (1.6" dia)	42	
	SI-600						
	SI-300R	Incubated & Refrigerated Shakers	+15 to 60 / +59 to 140				
	SI-600R						
Floor type	IS-971	Incubated Shakers	Amb. +5 to 60 / Amb. +9 to 140			70mm dia (2.8" dia)	44
	IS-971R	Incubated & Refrigerated Shakers	+4 to 60 / +40 to 140				
	IS-971RF	Incubated & Refrigerated & Illuminated Shakers					

Accessories & Options

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for Incubated & Refrigerated & Illuminated Shakers	78-81

General Applications

General applications	General, Low temp. & Low temp. personal Incubators			Incubated & Refrigerated & Illuminated Shakers	
	IB series	IL series	ILP series	SI series	IS series
Antibody Testing	•	•	•		
Bacterial Research	•		•		
Bacterial suspensions				•	•
Chemical Storage	•	•			
Chick Embryo Studies	•		•		
Clinical Science	•	•	•		
Cultivating Low Temperature Microbes and Plant Cells		•			
Crystallization Studies	•	•			
Cultivating Thermophilic Bacteria	•				
Drying And Staining Procedures	•	•			
Denaturalizing Tests for Food	•	•			
Environmental technology (waste water and soil analysis)				•	•
Enzyme Digestion Studies	•	•			
Extraction procedures				•	•
Fermentation (Pharmacy and biotech -DNA and Enzymes)				•	•
General mixing				•	•
Hematological Testing	•	•	•		
Histochemical Procedures	•	•			
Measuring COD/ BOD		•			
Medical researches. (Diagnostic tests)				•	•
Microbiological Determinations	•	•	•		
Microorganism	•	•	•		
Molecular biology				•	•
Organism Germs for Life Science	•	•	•		
Organism Pharmacy	•	•	•		
Paraffin Embedding	•	•			
Pharmaceutical Stability Testing		•			
Plasmid purification				•	•
Protein expression in bacteria				•	•
Solubility				•	•
Staining and destaining				•	•
Tissue Culturing	•	•	•		

*General purpose use and storage applications

Technical Benefits

Safety functions

- 1) Self-protecting cut-off function and signal: (Without IS series)
 - For over temperature, automated cut the power supply for heater and controller orderly before the unit shuts down.
 - 2 separated over-current fuses for user safety.
 - 2) Time setting function for automated run/off: (Without IS series)
 - Integrated time setting: Delayed ON / OFF. (from 1 min to 99 hr 59 min)
 - Operating settable function: After a power interruption, select automated run or manual run.
 - 3) Door-open warning alarm:
 - Intermittent tone and optical signal alarm 5 min. after automated cut-off.
 - Heating element and fan automatically stop when door opening to minimize heat loss and protect operator. (Without IS series)
 - The door is opened, after 5 min refrigerator is automated cut-off with intermittent tone. (Only SI series)
- Self-diagnostic function identifies any errors and advises correction procedures.
- 2) Applicable control display considering MMI (Man Machine Interface) network system:
 - Very similar key arrangement throughout the whole temperature chambers, bath circulators and shakers series.
 - Operator-friendly controller with the splash-proof / easy-to-clean keypads and clear LED displays.
 - A speed lock key prevents accidental resetting of parameters conveniently. (Only incubator series)
 - Shaker and lamp mechanism have their own on/off buttons for independent incubating use. (Only incubated shakers)

Ideal construction

- 1) High quality 304 stainless steel inner chamber and dirt-repellent powder coating external surface.
- 2) Perfectly sealed door gasket minimizes heat loss and fully insulated chambers keep exterior at a safe temperature. (Only incubated shakers)
- 3) Adjustable stainless steel and electro polished wire shelves for better air-flowing and easy cleaning. (Only incubated shakers)

Optimum control performance

- 1) Professional control electronics and program control:
 - Microprocessor PID temperature control with very simple calibration and auto-tuning features.
 - Frequently use 3 different temperatures memorable for convenient use.
 - Selectable measuring temperature in °C or °F.

General Incubators

Exclusive gravity convection type incubators for all laboratory purposes.

IB-G series are the most useful incubators for general purpose which manufactured equipped *air-jacketed convection* style for excellent variation without outside air disturbances.



IB-05G

- Included Accessories** • 2 wire shelves
- Optional Accessories** • Perforated shelves
- Stacking kits for stackable chambers
- see page 53

Operating features

- +5°C above room temperature to 70°C.
- MicroprocessPID control/ Auto-tuning/ Calibration.
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF.
- Over-temperature limiter/ Door opening alarm.
- 3 different temperature values memorable.
- Digital LED display (0.1°C resolution) using touch-sensitive keypads.
- RS-232 interface available.

Constructional features

- Fully insulated dual-wall door with rubber magnetic seal gasket keeps setting temperature.
- Stackable 2 steps up with exclusive stacking kits. (optional)
- Optimized sample inspection through a tempered inner glass door without affecting chamber temperature.
- Separable shelves and rounded inner chamber corners for easy cleaning.
- Highly durable incoloy heating element with fins guarantee better radiation.
- Connectable other electric instruments to the inside of a chamber through a side cable port.
- Cable port to control the amount of airflow in the chamber. (dia 38mm/1.5", Provided silicon or rubber cap)

Specifications & Ordering Informations



Model		IB-05G	IB-15G	IB-25G
Chamber Volume (L / cu ft)		60 / 2.1	102 / 3.6	151 / 5.3
Temperature	Range (°C / °F)	Amb. +5 to 70 / Amb. +9 to 158		
	Fluctuation ¹⁾ (± °C / °F) at 37°C	0.1 / 0.18	0.1 / 0.18	0.2 / 0.36
	Variation ¹⁾ (± °C / °F) at 37°C	0.6 / 1.08	0.2 / 0.36	0.6 / 1.08
Dimensions	Interior dimensions (W×D×H) (mm / inch)	400×360×420 / 15.7×14.2×16.5	480×410×520 / 18.9×16.1×20.5	610×460×540 / 24×18×21.3
	Exterior dimensions (W×D×H) (mm / inch)	595×555×745 / 23×22×29	675×605×855 / 27×24×34	805×655×885 / 32×26×35
	Net weight (Kg / lbs)	45 / 99	55 / 121	62 / 136
	Electrical Requirements (230V)	50 / 60Hz, 1.3A	50 / 60Hz, 2.2A	50 / 60Hz, 3.1A
Cat. No.		AAH21162K	AAH21172K	AAH21182K
Electrical Requirements (120V)		50 / 60Hz, 2.8A	50 / 60Hz, 4.6A	50 / 60Hz, 6.4A
Cat. No.		AAH21166U	AAH21176U	AAH21186U

1) Technical data. (according to DIN 12880)

Economy Incubators

Space saving design and dependable, trouble-free heating system.

IB-E series completely wrap inner chambers in film type heaters that is perfectly safe from any mechanical vibration and noise, in addition to prevents frequent mechanical trouble.

Operating features

- +3°C above room temperature to 60°C.
- Microprocess PID control/ Auto-tuning/ Calibration.
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON/ OFF.
- Over-temperature limiter/ Door opening alarm.
- 3 different temperature values memorable.
- Digital LED display (0.1°C resolution) using touch-sensitive keypads.

Constructional features

- Completely safe anti-vibration design is helpful to cultivate yeast and not to disturb nearly use of other instruments like a microscope.
- Space saved dimension, lightweight and compact design with fully sealed gasket.
- Stackable 2 steps up with exclusive stacking kits. (optional)
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature.
- Separable shelves and rounded inner chamber corners for easy cleaning.



IB-01E

- Included Accessories**
- 2 wire shelves
- Optional Accessories**
- Perforated shelves
 - Stacking kits for stackable chambers

➔ see page 53

Specifications & Ordering Informations



Model		IB-01E	IB-11E	IB-21E
Chamber Volume (L / cu ft)		65 / 2.3	150 / 5.3	205 / 7.2
Temperature	Range (°C / °F)	Amb. +3 to 60 / Amb. +5.4 to 140		
	Fluctuation ¹⁾ (± °C / °F) at 37°C	0.2 / 0.36	0.3 / 0.54	0.1 / 0.18
	Variation ¹⁾ (± °C / °F) at 37°C	0.6 / 1.08	0.8 / 1.44	1.1 / 1.98
Dimensions	Interior dimensions (W×D×H) (mm / inch)	423×355×445 / 16.7×14×17.5	500×515×585 / 19.7×20.3×23	632×515×630 / 24.9×20.3×24.8
	Exterior dimensions (W×D×H) (mm / inch)	533×475×725 / 21×18.7×28.5	595×630×865 / 23.5×24.8×34	740×630×910 / 29.1×24.8×35.8
	Net weight (Kg / lbs)	33	47	57
	Electrical Requirements (230V)	50 / 60Hz, 1.1A	50 / 60Hz, 2.2A	50 / 60Hz, 2.4A
Cat. No.		AAH26015K	AAH26025K	AAH26035K
Electrical Requirements (120V)		50 / 60Hz, 2.1A	50 / 60Hz, 4.2A	50 / 60Hz, 4.6A
Cat. No.		AAH26016U	AAH26026U	AAH26036U

1) Technical data. [according to DIN 12880]

Low Temperature Incubators

Lab
Companion

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Incubators



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IL-21 / IL-21A

Low Temperature Incubators - Forced Convection

Intensive low temperature incubating performance with compressor cooling system.

IL series has an excellent HBP type compressor cooling system which is noiseless and reduces water-evaporation within the chamber.

Operating features

- 0°C to 60°C.
- Microprocess PID control / Auto-tuning / Calibration.
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON / OFF.
- Over-temperature limiter / Door opening alarm.
- 3 different temperature values memorable.
- 9 steps of temperature profiles programmable and repeat up to 200 cycles.
- Adjustable fan speed within 3 steps and defrosting time / period control.
- Digital LED display (0.1°C resolution) using touch-sensitive keypads.
- RS-232 interface available.

Constructional features

- Forced-air convection with an optimal cross flow type fan for excellent variation.
- Enough capacity - large size of chambers with maximum 244L (8.6cu ft)
- One electrical outlet with safety cover allows use of other electric instruments in the chamber.
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature.
- Separable shelves and rounded inner chamber corners for easy cleaning.



IL-21

- Included Accessories**
- 2 wire shelves for IL-11
 - 3 wire shelves for IL-21
- Optional Accessories**
- Perforated shelves

➤ see page 53

Specifications & Ordering Informations



Model		IL-11	IL-21
Chamber Volume (L / cu ft)		150 / 5.32	244 / 8.6
Refrigerator (Hp)		1 / 8 HBP	1 / 6 HBP
Temperature	Range (°C / °F)	0 to 60 / +32 to 140	
	Fluctuation ¹⁾ (± °C / °F) at 25°C	0.1 / 0.18	
	Variation ¹⁾ (± °C / °F) at 25°C	0.5 / 0.9	0.4 / 0.72
Dimensions	Interior dimensions (W×D×H) (mm / inch)	600×500×500 / 24.0×20.0×20.0	500×520×940 / 20.0×20.5×37.0
	Exterior dimensions (W×D×H) (mm / inch)	735×742×1010 / 28.9×29.0×40.0	635×740×1630 / 25.0×29.0×64.0
	Net weight (Kg / lbs)	100 / 220.0	135 / 297.0
Electrical Requirements (230V)		50 / 60Hz, 4.5A	50 / 60Hz, 6.4A
Cat. No.		AAH22042K / AAH22041K	AAH22052K / AAH22051K
Electrical Requirements (120V)		60Hz, 8.3A	60Hz, 10.6A
Cat. No.		AAH22046U	AAH22056U

1) Technical data [according to DIN 12880]

Low Temperature Incubators - Natural Convection

Exclusive air-jacketed convection type incubators prevent the inner chamber with excellent variation from outside air disturbance.

IL-A series is perfectly safe from water-evaporations by evaporator of cooling system or blower, especially ideal for incubating test of an easily drying medium.



IL-11A

Included Accessories

- 2 wire shelves for IL-11A
- 3 wire shelves for IL-21A

Optional Accessories

- Perforated shelves

➔ see page 53

Operating features

- +4°C to 60°C.
- Microprocess PID control / Auto-tuning / Calibration.
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON / OFF.
- Over-temperature limiter / Door opening alarm.
- 3 different temperature values memorable.
- 9 steps of temperature profiles programmable and repeat up to 200 cycles.
- Adjustable defrosting time / period control.
- Digital LED display (0.1°C resolution) using touch-sensitive keypads.
- RS-232 interface available.

Constructional features

- Air-jacketed type: outer heat exchange and inner gravity convection independently.
- Enough capacity - large size of chambers with maximum 254L. (9cu ft)
- One electrical outlet with safety cover allows use of other electric instruments in the chamber.
- Optimized sample inspection through tempered inner glass door without affecting chamber temperature.
- Separable shelves and rounded inner chamber corners for easy cleaning.

Specifications & Ordering Informations



Model		IL-11A	IL-21A
Chamber Volume (L / cu ft)		162 / 5.7	254 / 9.0
Refrigerator (Hp)		1 / 6 HBP	1 / 4 HBP
Temperature	Range (°C / °F)	+4 to 60 / +39.2 to 140	
	Fluctuation ¹⁾ (± °C / °F) at 25°C	0.2 / 0.36	
	Variation ¹⁾ (± °C / °F) at 25°C	0.5 / 0.9	
Dimensions	Interior dimensions	600 × 540 × 500	500 × 540 × 940
	(W × D × H) (mm / inch)	/ 24 × 21.3 × 20	/ 20 × 21.3 × 37
	Exterior dimensions	770 × 772 × 1060	670 × 760 × 1680
	(W × D × H) (mm / inch)	/ 30 × 30 × 42	/ 26 × 30 × 66
Net weight (Kg / lbs)		108 / 238.1	145 / 319.7
Electrical Requirements (230V)		50 / 60Hz, 6.9A	50 / 60Hz, 8.4A
Cat. No.		AAH22062K / AAH22061K	AAH22072K / AAH22071K
Electrical Requirements (120V)		60Hz, 10.2A	60Hz, 12.3A
Cat. No.		AAH22063U	AAH22073U

1) Technical data. (according to DIN 12880)

Low Temperature Personal Incubators

Compact, lightweight with exclusive incubating performance for valuable tests.

ILP series has a thermal electric module-Peltier cooled type which is very quiet, anti-vibration and small generation of heat to just fit a bench-top personal incubator!

Operating features

- +10°C to 40°C at room temperature 25°C.
- Microprocess PID control / Auto-tuning / Calibration.
- Digital timer: 1 min ~ 99 hr 59 min, delayed ON / OFF.
- Over-temperature limiter.
- 3 different temperature values memorable.
- 9 steps of temperature profiles programmable and repeat up to 200 cycles.
- Adjustable fan speed within 3 steps and defrosting time / period control.
- Digital LED display (0.1°C resolution) using touch-sensitive keypads.
- RS-232 interface available.

Constructional features

- Tempered inner glass door is equipped for all models! (14L / 48L)
- Maximum 2 X 1000mL Erlenmeyer flasks can be stored in the smallest chamber. (14L)
- Environment-friendly insulation material-EPDM used for safe and convenient operating. (ASTM-C534)
- Space-saving compact size on bench-top and can simply be stacked up.



ILP-02 stackable chambers

- Included Accessories**
- 1 wire shelf for ILP-02
 - 2 wire shelves for ILP-12
- Optional Accessories**
- Perforated shelves

see page 53

Specifications & Ordering Informations



Model		ILP-02	ILP-12
Chamber Volume [L / cu ft]		14 / 0.5	48 / 1.7
Temperature	Range [°C / °F]	10~40°C [50~104°F] at ambient temperature 25°C	
	Fluctuation ¹⁾ [± °C / °F] at 25°C	0.1 / 0.18	
	Variation ¹⁾ [± °C / °F] at 25°C	0.5 / 0.9	0.4 / 0.72
Dimensions	Interior dimensions	315 × 200 × 230	334 × 334 × 430
	(W × D × H) (mm / inch)	/ 12.4 × 7.9 × 9.1	/ 13.1 × 13.1 × 17
	Exterior dimensions	430 × 495 × 400	430 × 665 × 620
	(W × D × H) (mm / inch)	/ 17 × 19.4 × 15.7	/ 17 × 26.2 × 24.4
Net weight (Kg / lbs)		27.5 / 60.6	49 / 108
Electrical Requirements (230V)		50 / 60Hz, 1.8A	50 / 60Hz, 3.5A
Cat. No.		AAH24032K / AAH24031K	AAH24042K / AAH24041K
Electrical Requirements (120V)		60Hz, 3.4A	60Hz, 6.7A
Cat. No.		AAH24033U	AAH24043U

1) Technical data. [according to DIN 12880]

Incubated Shakers - Benchtop type



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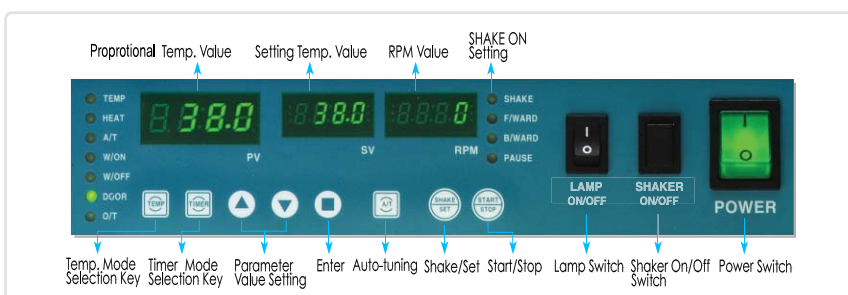
SI-600R

Optional Accessories

• see page 78-81

- Universal/ Dedicated platforms, Rubber mats, Universal attachments
- Flask clamps, Funnel clamps
- Test tube racks, Spring wire racks
- Microplate holders (three styles)
- Lab sticker

SI-600R Control Display



Incubated Shakers – Benchtop type

Digital incubating/ refrigerating benchtop shakers.

Combines a benchtop incubator, refrigerator with dual-action in *orbital and reciprocating* shakers. Fulfills a variety of molecular biology, general incubation, and cell culture applications.

Shaking features

- Select between orbital or reciprocating action.
- Speed range: 10 to 300 rpm.
- Programmable shaking motion.
 - Run time: 10 sec to 999 hr 59 min 59 sec.
 - Forward & Backward, Pause: 10 sec to 59 min 50 sec.
- Maximum orbit size: 40mm dia. (1.6" dia.)

Operating features

- +5°C above room temperature to 60°C for SI-300, 600.
- +15°C to 60°C for SI-300R, 600R.
- Microprocess PID control / Auto-tuning / Calibration.
- Digital timer: 1 min to 99 hr 59 min, delayed ON / OFF.
- Over-temperature limiter / Door opening alarm.
- Digital LED display for temperature (0.1°C resolution), speed, and shaking motions.
- 3 different temperature values memorable.
- 9 steps of temperature profiles programmable and repeat up to 200 cycles.
- Adjustable fan speed within 3 steps.
- RS-232 interface available.



Inside fo SI series

Constructional features

- Brushless DC motor for long maintenance-free operation.
- High-velocity fan ensures rapid thermal recovery and excellent variation.
- Gas spring door and lid guard against sudden closures.
- Transparent acryl lid and inner lamp functions allow observation of flask contents.
- Use CFC-free refrigerant. (for SI- 300R, 600R)
- Attaching fluorescent lamp offered bright observation in a chamber.

Specifications & Ordering Informations



Model		SI-300	SI-300R	SI-600	SI-600R
Temperature	Range (°C / °F)	Amb. +5 to 60 (Amb. +9 to 140) for SI-300, 600 +15 to 60 (+59 to 140) for SI-300R, 600R			
	Fluctuation ¹⁾ at 37°C (±°C / °F)	0.3 / 0.54	0.6 / 1.08	0.1 / 0.18	0.2 / 0.36
	Variation ¹⁾ at 37°C (±°C / °F)	1.6 / 2.88	1.5 / 2.7	0.7 / 1.26	0.3 / 0.54
	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 or Reciprocating motion selectable			
	Frequency (RPM)	10 to 300			
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause: 10 sec to 59 min 50 sec			
	Orbit size (mm / inch, dia.)	20, 30, 40 / 0.8, 1.2, 1.6 Available - Standard 30 / 1.2			
Dimensions	Recip stroke length (mm / inch)	20, 30, 40 / 0.8, 1.2, 1.6 Available - Standard 30 / 1.2			
	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	
	Internal (W×D×H) (mm / inch)	410×410×320 / 16.1×16.1×12.6		510×510×320 / 20.1×20.1×12.6	
Electrical Requirements (230V)	Overall (W×D×H) (mm / inch)	442×740×622 / 17.4×29.1×24.5		542×850×622 / 21.4×33.5×24.5	
	Net weight (Kg / lbs)	74 / 163	85 / 187	91 / 200	102 / 225
Electrical Requirements (120V)		50 / 60Hz, 4.0A	60Hz, 5.5A	50 / 60Hz, 4.0A	60Hz, 5.5A
Cat. No.		AAH23105K	AAH23111K	AAH23205K	AAH23211K
Electrical Requirements (230V)		50 / 60Hz, 7.5A	60Hz, 10.1A	50 / 60Hz, 7.5A	60Hz, 10.1A
Cat. No.		AAH23106U	AAH23113U	AAH23206U	AAH23213U

1) Technical data. [according to DIN 12880]

Incubated Shakers - Floor type



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CE Certification only for the IS-971/971R



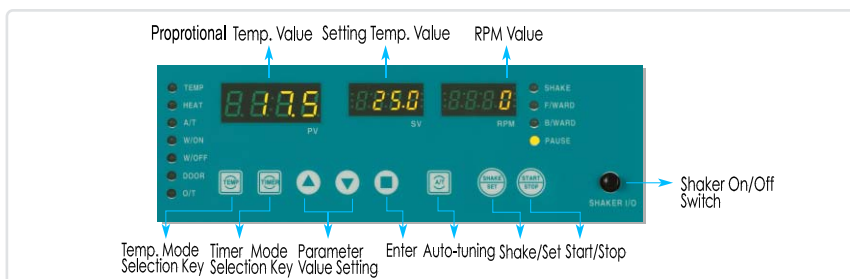
IS-971R

Optional Accessories

• see page 78-81

- Universal / Dedicated platforms, Rubber mats, Universal attachments
- Flask clamps, Funnel clamps
- Test tube racks, Spring wire racks
- Microplate holders (three styles)
- Lab sticker

IS-971R Control Display



Incubated Shakers - Floor type

Large and heavy capacity shaking with rapid heating / cooling performance.

Advanced shaking for heavy workload and flask up to maximum 4 × 6L.
Exclusive drive mechanism delivers years of dependable service.

Shaking features

- Select between orbital or reciprocating action.
- Speed range: 10 to 300 rpm.
- Programmable shaking motion.
 - Run time: 10 sec to 999 hr 59 min 59 sec.
 - Forward & Backward, Pause: 10 sec to 59 min 50 sec.
- Maximum orbit size: 70mm dia. (2.8" dia.)



Inside of IS series

Operating features

- +5°C above room temperature to 60°C for IS-971
- +4°C to 60°C for IS-971R, 971RF.
- Microprocess PID control / Auto-tuning / Calibration.
- Digital timer: 1 min to 99 hr 59 min, delayed ON / OFF.
- Over-temperature limiter / Door opening alarm.
- Digital LED display for temperature (0.1°C resolution), speed, and shaking motions.
- 3 different temperature values memorable.
- 9 steps of temperature profiles programmable and repeat up to 200 cycles.
- Adjustable fan speed within 3 steps and defrosting time / period control.
- RS-232 interface available.

Constructional features

- Brushless DC motor for long maintenance-free operation.
- High-velocity fan ensures rapid thermal recovery and excellent variation.
- Viewing window in top-opening provides clear chamber visibility, minimizing the need to open.
- Illumination lamp available. (only for IS-971RF)
- Gas spring door and lid guard against sudden closures.
- Casters easily transport the unit.
- Door can be secured with a key and locked.
- Use CFC-free refrigerant. (for IS-971R, IS-971RF)

Specifications & Ordering Informations



CE Certification only for the IS-971/971R

Model		IS-971		IS-971R		IS-971RF	
Temperature	Range (°C / °F)	Amb. +5 to 60 (Amb. +9 to 140) for IS-971, +4 to 60 [+40 to 140] for IS-971R, IS-971RF					
	Fluctuation ¹⁾ at 37°C (± °C / °F)	0.2 / 0.36					
	Variation ¹⁾ at 37°C (± °C / °F)	0.8 / 1.44					
	Refrigerator	-	1 / 3 LBP (AC 120V)		1 / 3 LBP (AC 120V)		
		-	1 / 6 HBP (AC 230V)		1 / 4 HBP (AC 230V)		
Shaking system	Motion type	Orbital or Reciprocating motion selectable					
	Frequency (RPM)	10 to 300					
	Timer	Run time: 10 sec to 999 hr 59 min 59 sec Forward & Backward, Pause: 10 sec to 59 min 50 sec					
	Orbit size (mm / inch, dia.)	30, 40, 50, 60, 70 / 1.2, 1.6, 2.0, 2.4, 2.8 Available - Standard 30 / 1.2					
	Recip stroke length (mm / inch)	30, 40, 50, 60, 70 / 1.2, 1.6, 2.0, 2.4, 2.8 Available - Standard 30 / 1.2					
Dimensions	Volume (L / cu ft)	270 / 9.5					
	Platform (W×D) (mm / inch)	755×481 / 29.7×18.9					
	Internal (W×D×H) (mm / inch)	894×634×480 / 35.2×25.0×18.9					
	Overall (W×D×H) (mm / inch)	1,132×810×1,045 / 44.6×31.9×41.1			1,132×810×1,055 / 44.6×31.9×41.5		
	Net weight (Kg / lbs)	180.0 / 396.8		195.0 / 429.9		210.0 / 462.9	
Electrical Requirements (230V)		50 / 60Hz, 5.2A		60Hz, 7.3A	50Hz, 7.3A	60Hz, 8.1A	50Hz, 8.1A
Cat. No.		AAH23306K		AAH23321K	AAH23322K	AAH23351K	AAH23352K
Electrical Requirements (120V)		60Hz, 11.2A		60Hz, 13.8A		60Hz, 15.3A	
Cat. No.		AAH23336U		AAH23346U		AAH23356U	

1) Technical data. [according to DIN 12880]

※ Certification only for the IS-971, IS-971R.