

# Incubators

## Incubated Shakers (Floor Standing Models)



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Information is readily available on our website.



CE Certification only for the IS-971/971R



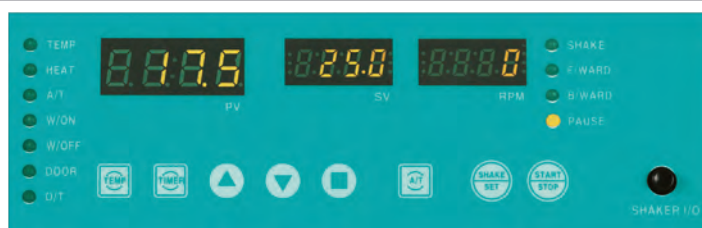
### IS-971R

#### Optional Accessories

• see page 75-77

- 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



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Large capacity and heavy workload shaking with rapid heating and cooling performance. (up to four 6L flask)

Exclusive drive mechanism delivering years of trouble-free service.

### Shaking Features

- Dual shaking modes: orbital or reciprocating mode selectable.
- Speed range: 10 to 300 rpm.
- Programmable shaking control.
  - Timer range: 10 sec to 999 hr 59 min 59 sec.
  - Forward & Backward, Pause: 10 sec to 59 min 59 sec.
- Selectable orbit diameter or stroke length: 30, 40, 50, 60, 70mm.

### Operating Features

- Temperature control:
  - +5°C above ambient to 60°C (for IS-971)
  - +4°C to 60°C (for IS-971R)
  - 15°C below ambient to 60°C (for IS-971RF)
- Microprocessor PID control.
- Simple calibration and auto-tuning functions.
- Digital timer with Delayed ON/OFF function: 1 min to 99 hr 59 min.
- High temperature limit setting and open door alarm.
- Convenient preset function for 3 most commonly used temperature settings.
- Up to 9 temperature steps and maximum 200 cycles of repetition programmable for each profile.
- Adjustable 3-step fan speed with defrosting time and period control.
- Intuitive control panel with bright LED display and touch-sensitive keypad for temperature (0.1°C resolution), speed, and shaking motion control.
- RS-232 interface.



Inside of IS Models

### Constructional Features

- Maintenance-free and durable BLDC motor.
- High-velocity fan ensuring uniform temperature distribution and rapid thermal recovery.
- Convenient sample monitoring thanks to the transparent top viewing window minimizing the need to open the lid. (except for IS - 971RF)
- Gas spring lid supports providing soft closing, smooth motion, and stopping.
- Environment-friendly CFC-free refrigerant. (for IS-971R and IS-971RF)
- Built-in casters for easy transport.
- Lockable lid for added safety.
- Adjustable 5-brightness (maximum 12,000 lux) illumination lamp. (optional for IS-971RF only)

### Specifications & Ordering Information



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|                                | Model                                        | IS-971                                                                                         | IS-971R                                    | IS-971RF                                   |
|--------------------------------|----------------------------------------------|------------------------------------------------------------------------------------------------|--------------------------------------------|--------------------------------------------|
| Temperature                    | Range (°C / °F)                              | Amb. +5 to 60 / Amb. +9 to 140                                                                 | +4 to 60 / +40 to 140                      | Amb. -15 to 60 / Amb. -27 to 140           |
|                                | Fluctuation <sup>1)</sup> at 37°C (±°C / °F) | 0.2 / 0.36                                                                                     |                                            |                                            |
|                                | Variation <sup>1)</sup> at 37°C (±°C / °F)   | 0.8 / 1.44                                                                                     |                                            |                                            |
|                                | Refrigerator                                 | -                                                                                              | 1 / 3 LBP (AC 120V)<br>1 / 6 HBP (AC 230V) | 1 / 3 LBP (AC 120V)<br>1 / 4 HBP (AC 230V) |
| Shaking System                 | Motion Type                                  | Orbital or Reciprocating motion selectable                                                     |                                            |                                            |
|                                | Speed Range (RPM)                            | 10 to 300                                                                                      |                                            |                                            |
|                                | Timer                                        | Run time: 10 sec to 999 hr 59 min 59 sec<br>Forward & Backward, Pause: 10 sec to 59 min 59 sec |                                            |                                            |
|                                | Amplitude Size (mm / inch, dia.)             | 30, 40, 50, 60, 70 / 1.2, 1.6, 2, 2.4, 2.8 Available - Standard 30 / 1.2                       |                                            |                                            |
| Dimension                      | Recip Stroke Length (mm / inch)              | 30, 40, 50, 60, 70 / 1.2, 1.6, 2, 2.4, 2.8 Available - Standard 30 / 1.2                       |                                            |                                            |
|                                | Volume (L / cu ft)                           | 270 / 9.5                                                                                      |                                            |                                            |
|                                | Platform (WxD) (mm / inch)                   | 755x481 / 29.7x18.9                                                                            |                                            |                                            |
|                                | Internal (WxDxH) (mm / inch)                 | 894x634x480 / 35.2x25x18.9                                                                     |                                            |                                            |
|                                | Overall (WxDxH) (mm / inch)                  | 1,132x810x1,045 / 44.6x31.9x41.1                                                               |                                            |                                            |
|                                | Net Weight (Kg / lbs)                        | 180 / 396.8                                                                                    | 195 / 429.9                                | 210 / 462.9                                |
| Electrical Requirements (230V) |                                              | 50 / 60Hz, 5.2A                                                                                | 60Hz, 7.3A                                 | 60Hz, 9.3A                                 |
| Cat. No.                       |                                              | AAH23306K                                                                                      | AAH23321K                                  | AAH23351K                                  |
| Electrical Requirements (120V) |                                              | 60Hz, 11.2A                                                                                    | 60Hz, 13.8A                                | 60Hz, 17A                                  |
| Cat. No.                       |                                              | AAH23336U                                                                                      | AAH23346U                                  | AAH23356U                                  |

1) Technical data according to DIN 12880.

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