

# INCUBATOR SHAKER



**CONTACT US**

[info@igenels.com](mailto:info@igenels.com)  
[www.igenels.com](http://www.igenels.com)

## ABOUT THE COMPANY

iGene Labserve Pvt. Ltd. is gaining recognition by offering resilient, innovative solutions in laboratory instrumentation across healthcare, genomics, drug discovery, biopharma, and food & beverage sectors. We strive to enhance lab efficacy and reduce challenges through advanced technologies and a diverse product portfolio tailored to our customers' needs.

## PRODUCT OVERVIEW

The IG-ISC/IG-IS Series of incubator shakers are versatile, reliable, and space-saving devices designed for efficient microbial culturing. Available in various sizes, these models are offered in both cooling and non-cooling variants, providing flexibility for different laboratory needs. Their simple design and ease of operation make these incubator shakers highly efficient for a variety of applications.



## KEY FEATURES

- **Triple Drive Mechanism:** The triple drive mechanism connects to the shaking tray, providing robust and balanced shaking for extended use.
- **Easy Cleaning:** Front drain port for easy drainage of accidental spills.
- **Portability:** Optional stand with wheels allows easy movement of the unit.
- **Flexible Platform:** Accommodates a variety of clamps and flasks. Sticky mats are available for universal use.
- **Screw Mounting:** Flexible screwing options allow for secure fixing of clamps and holders for test tubes at desired positions on the platform.
- **Space-Saving Design:** With a height of less than 2.5 feet, the unit can be placed below the working bench, making it ideal for small laboratories.
- **Cooling and Non-Cooling Models:** Available with cooling as a standard feature, with non-cooling "eco" versions available on demand.
- **Viewing Window:** Equipped with a light switch to observe processes during operation.
- **Customizable Options:** Custom configurations are available on demand.

- **Compact Design:** Compact with an optimized structural design for stable shaking with minimum noise and vibration.
- **Precise Control:** Precise and fast temperature/shaking speed control using microprocessor PID controller to ensure consistent experimental conditions.
- **Operating Modes:** Three operating modes:
  - Temperature & Shaking
  - Temperature only
  - Shaking only
- **User Interface:** Intuitive operation with a color touch display for Temperature, RPM, Timer start/stop buttons, and LED on/off buttons.
- **Controller Lock:** Controller lock function to prevent unintentional changes in settings.
- **Sample Monitoring:** Transparent viewing window with LED lamp for monitoring samples without opening the door.
- **Shaking Motion:** Orbital shaking motion.
- **Load Capacity:** Maximum permissible load:
  - 10 kg at 500 rpm
  - 21 kg at 400 rpm and 250 rpm
- **Speed Stability:**
  - $\pm 1$  rpm for settings below 100 rpm.
  - $\pm 1\%$  for settings above 100 rpm.
- **Amplitude/Radius:** Amplitude/Radius size: 19.1 mm / 0.75 inches.
- **Timer Function:** Timer for shaking operation time up to 999 hours and 59 minutes.
- **Heating System:** Heaters: Fin Type 550 W  $\times$  2 (total: 1100 W).
- **Connectivity:** RS232 and USB ports for PC connection and data collection.
- **Auto-Run Function:** Automatically resumes operation at preset speed after a power failure.
- **Self-Diagnosis:** Smart self-diagnosis feature for abnormal conditions, including:
  - Alarm for deviation in actual rpm from the set rpm.
  - Device instability detection (e.g., high rpm, overload, weight imbalance).
- **Safety Features:**
  - Electronic over-temperature protection system (A-OT limiter).
  - Independent precision temperature sensor and controller for reliable over-temperature protection.
- **Stackable Design:** Stackable up to two levels in the future.

- **Internal Features:** Includes internal power outlet and internal illumination.
- **Drain System:** Quick disconnect valve for cleaning accidental spills.
- **Refrigeration:** CFC-free refrigeration with a compressor of 1/6 HP.
- **Shelving:** Two shelves as standard, with a capacity to accommodate up to 11 shelves.
- **Platform Stability:** Operation must start and stop at a specified location, with a fixed platform for easy sample replacement.
- **Flask Capacity:** Accommodates flasks as follows:
  - 49 × 50 ml, 39 × 100 ml, 24 × 250 ml, 16 × 500 ml, 9 × 1000 ml, 6 × 2000 ml, 4 × 4000 ml, 2 × 6000 ml.
- **Accessories:**
  - Universal platform for mounting accessories.
  - Flask clamps: 2 each for 100 ml, 500 ml, 1000 ml, and 6000 ml.
  - Provision for adding accessories such as:
    - Rubber mat for culture bottles and petridishes.
    - Test tube racks (Ø8 mm - Ø35 mm).
    - Spring wire rack.
    - Microplate holder.
- **Lab Sticker:** Lab sticker (200 × 200 mm) for petridishes and culture bottles.
- **Material:**
  - External body: Powder-coated for corrosion resistance.
  - Internal body: Stainless steel.
  - Platform: Anodized aluminium.
- **Platform Dimensions:** 450 × 450 mm (W × D).
- **External Dimensions:** 678 × 895 × 934 mm (W × D × H).
- **Internal Dimensions:** 540 × 540 × 518 mm (W × D × H).

## SPECIFICATIONS

Shaker Speed (20 - 500 RPM)	
Orbit Diameter	ø 25 mm
Accuracy	± 2% of maximum speed
Temperature range	5°C above RT to 60°C & with cooling 4°C- 80°C (Customize temperature options available)
Resolution	0.1°C
Temp. accuracy	±0.1°C at 37°C and variation at 37°C in flask: ±0.5°C.
Power supply	230V ± 10%, 50Hz

## TECHNICAL SPECIFICATIONS

Loading Capacity with platform size (Inch)				
Flasks	12X12	16X16	18X18	24X24
50ml	19	40	45	49
100ml	12	16	18	39
250ml	09	12	16	24
500ml	04	06	08	16
1000ml	02	03	03	09
2000ml	01	02	02	06
4000ml	02	02	02	04
6000ml	02	02	02	02

\*Capacity checked with sticky mats platforms

## COOLING INCUBATOR SHAKER

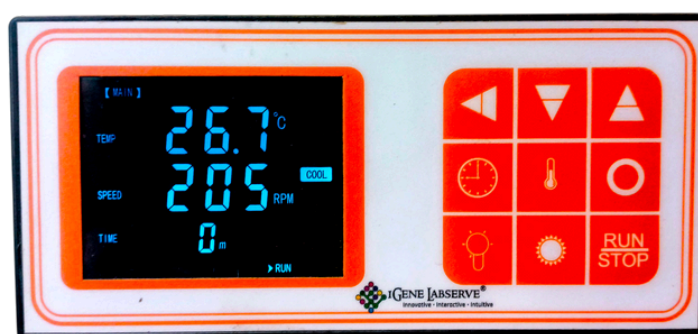
Ordering Information	
IG-12ISC Plus	Cooling Incubator Shaker with 12x12in platform
IG-16ISC Plus	Cooling Incubator Shaker with 16x16in platform
IG-18ISC Plus	Cooling Incubator Shaker with 18x18in platform
IG-24ISC Plus	Cooling Incubator Shaker with 24x24in platform

## NON-COOLING INCUBATOR SHAKER

Ordering Information	
IG-12IS	Incubator Shaker with 12x12in platform
IG-16IS	Incubator Shaker with 16x16in platform
IG-18IS	Incubator Shaker with 18x18in platform
IG-24IS	Incubator Shaker with 24x24in platform

## CONTROLLER FEATURES:

1. Equipped with intuitive buttons for setting temperature, timer, and RPM.
2. Includes safety alarms for over-temperature and over-speed conditions.
3. Optional defrosting function for added convenience.
4. Displays error codes for easy troubleshooting.
5. Available with an optional UV light feature.
6. Integrated control for LED lighting.
7. Programmable timer with a range of 0 to 999 hours and 59 minutes.
8. **Featuring two modes:**
  - a. **Mode A:** Timer starts counting as soon as the operation begins.
  - b. **Mode B:** Timer activates when the set parameters are achieved
9. Motor direction can be reversed, with customizable acceleration and deceleration profiles.
10. **Dual compressor modes:**
  - a. **Balanced Mode:** For consistent operation.
  - b. **Intermittent Mode:** For energy efficiency.







## CONNECT WITH US.

### ADDRESS

16/2, BLOCK 16, ASHOK NAGAR,  
NEW DELHI-110018

### TELEPHONE

+91 11 79613060

### EMAIL

info@igenels.com

### WEBSITE

<https://www.igenels.com>



**GeM**  
Government  
e Marketplace



एन एस आई सी  
**NSIC**  
ISO 9001 : 2008

