



# iGENE LABSERVE<sup>®</sup>

Innovative · Interactive · Intuitive

## iShake & Grow Series

Simultaneous Shaking and Incubation  
for Optimal Culture Growth



Designed for Microbial Culture · Cell Growth · Fermentation · Biotech Research



GeM  
Government  
e Marketplace



MSME  
MICRO, SMALL & MEDIUM ENTERPRISES  
सूक्ष्म, लघु एवं मध्यम उद्यम

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

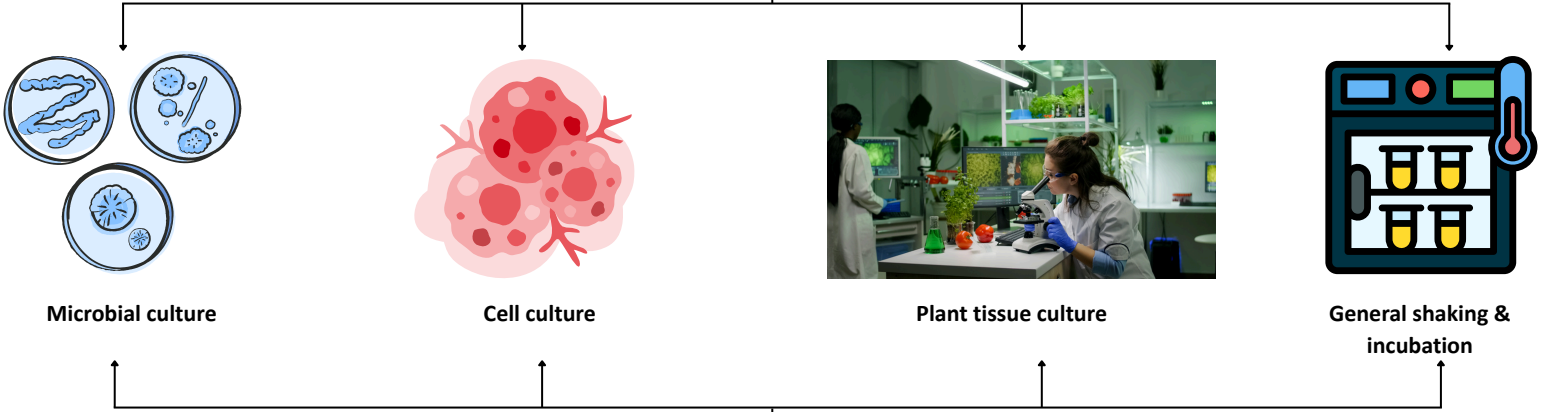


ISO 14644-1:2015  
CLEANROOMS & ASSOCIATED CONTROLLED ENVIRONMENTS  
PART 1: CLASSIFICATION OF AIR CLEANLINESS BY PARTICLE CONCENTRATION

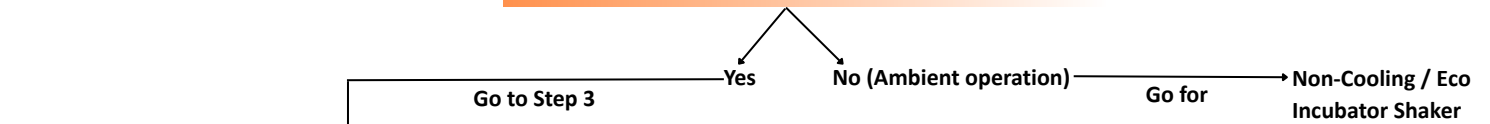
# Selection guide to choose right Incubator Shaker for your lab



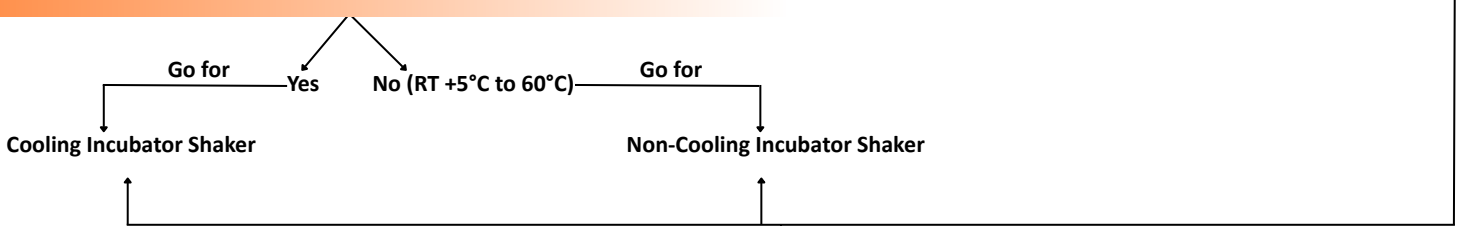
## Step 1: What is your primary application?



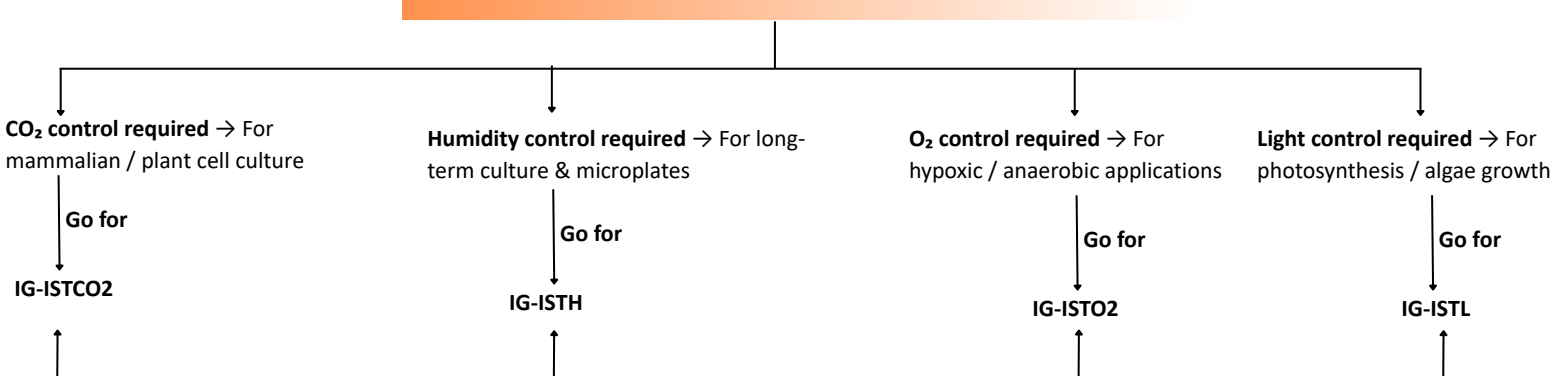
## Step 2: Do you require temperature control?



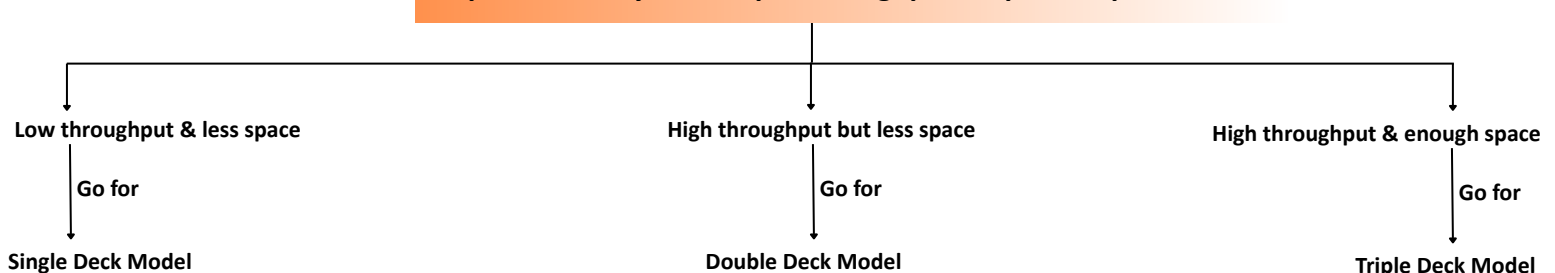
## Step 3: Do you need cooling below ambient temperature?



## Step 4: Do you need additional environmental control?



## Step 5: What is your sample throughput & space requirement?





**1. Triple drive mechanism**



Directly coupled to the shaking platform, ensuring robust, well-balanced motion and reliable performance during prolonged continuous operation

**2. Observation window**

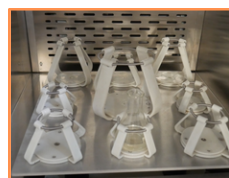
Equipped with toughened glass and an integrated light switch for clear observation of processes during operation

**3. Mobility**

An optional wheeled stand facilitates smooth mobility while providing enhanced stability for the unit during operation

**4. Versatile Platform**

Flexible platform of 18x18 inches with multiple screw-mounting options allows secure positioning of clamps, flasks, and test tube holders, with optional sticky mats for universal use



**5. Space-Efficient Design**

With a compact height, the unit fits easily beneath standard laboratory workbenches, making it ideal for space-constrained environments. Also available in a double-deck configuration.

**6. Cooling & Non-Cooling Variants**

Available with integrated cooling as standard, with non-cooling "Eco" versions also available

**7. Hassle-Free Cleaning**

Integrated drain port enables quick and convenient drainage of accidental spills, ensuring easy maintenance and enhanced safety

**8. Integrated Safety Interlock**

Automatically halts the shaking motion when the door is opened, preventing accidental exposure and ensuring safe operation

**9. Configurable Options**

Custom configurations are available to meet specific application requirements

**10. Foamed insulation**

- Foaming is carried out manually to ensure
  - Precise control of process parameters
  - Prevent condensation between the insulation and outer casing
  - Reduce energy consumption
  - Enable silent operation

**11. Heavy-Duty Construction**

- MS powder coated exterior
- SS 304 interior

**12. Also offered with a static rack option**

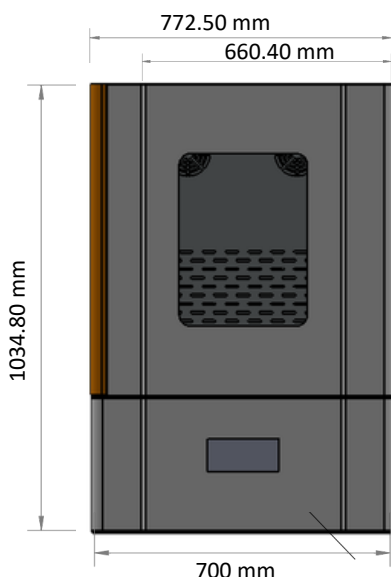
Control Unit



PID controller

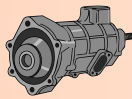


Touch controller





## 1. Advanced Triple-Drive Technology



Engineered with a direct coupling to the shaking platform for enhanced balance, reduced vibration, and sustained operational reliability.

## 3. Multi-Utility Platform

Designed with a 25 × 18 inch adaptable platform, offering multiple mounting points to firmly secure clamps, flasks, and test tube holders, plus optional sticky mats for universal applications.

## 5. Temperature-Controlled & Ambient Variants



Offered in a standard integrated cooling configuration, alongside cost-effective non-cooling “Eco” models.

## 7. High-Density Foam Insulation



Foaming is performed manually to ensure precise control over process parameters, prevent condensation between the insulation and outer casing, enhance energy efficiency, and enable silent operation.

**7. Dimensions:** 1000×725×1170mm (Base included)

## 2. Viewing Window

Designed with durable toughened glass and integrated illumination control for clear, uninterrupted observation during use.

## 4. Compact Footprint Design

With its compact height, the unit fits effortlessly beneath standard laboratory workbenches, making it perfect for space-limited environments. A double-deck configuration is also available for enhanced capacity.

## 6. Built-In Safety Lock



Shaking motion ceases instantly upon door opening, safeguarding users and maintaining operational safety.

## 8. Robust Construction

Features a powder-coated mild steel exterior and corrosion-resistant SS 304 interior, with an optional stainless steel static rack for added versatility.

**10. 5 L Flask-Compatible Design (Available optionally)**



## 1. Advanced Drive & Motion Control

High-quality servo motor with a unique drive system ensures stable, precise, and reliable operation with enhanced efficiency.

## 2. Integrated Standard & UV Lighting

Offers versatile lighting options to suit a wide range of research applications

## 3. Optimized Airflow System

Ensures uniform air circulation for stable and consistent operating conditions

## 4. Gentle Start & Precision Control

Smooth acceleration and gentle slow-start mechanism with precise speed and temperature control prevent sudden jolts, reduce wear, and ensure accurate, repeatable results

## 5. Flexible Operation & Multi-Step Control

Flexible operation with advanced multi-step control allows continuous or timed runs with adjustable speed, temperature, and timing for tailored experiments

## 6. Built-in Safety Systems

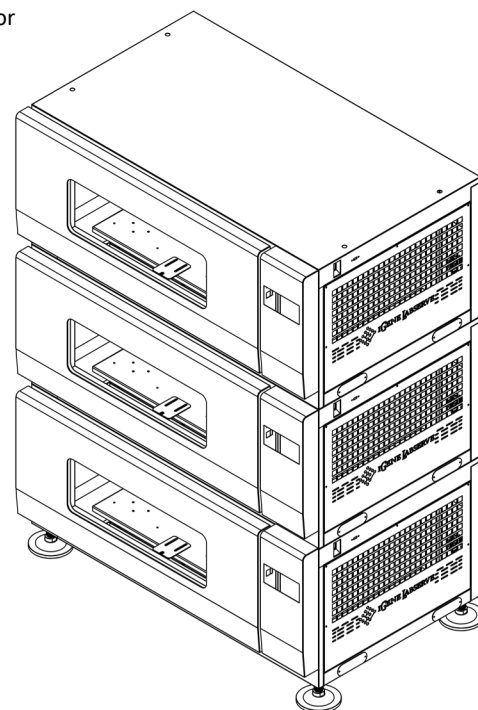
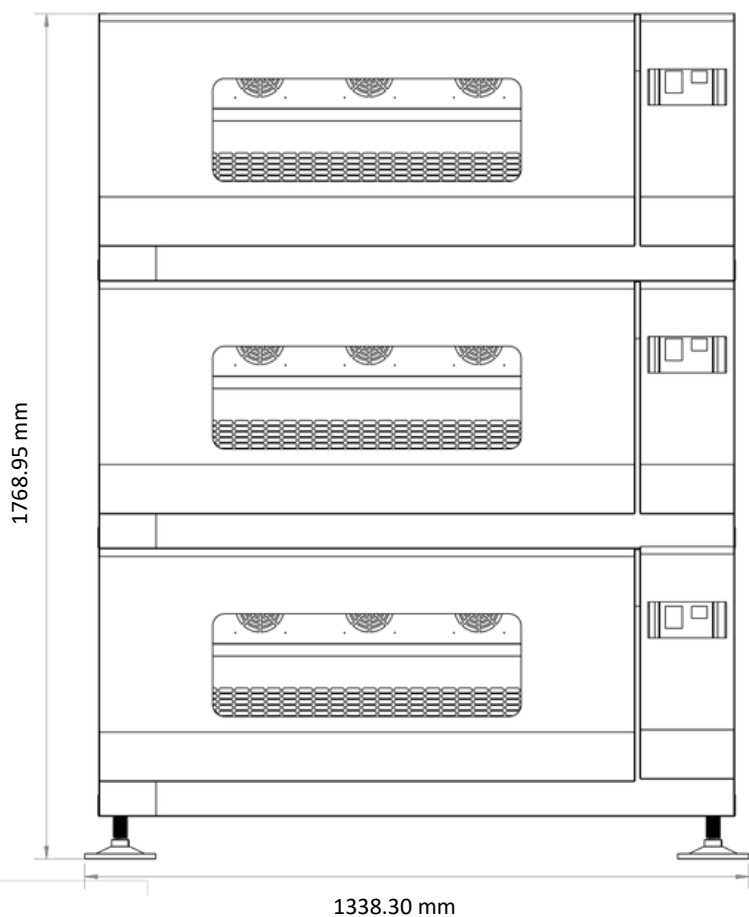
Audio-visual over-temperature & over-speed alarms, independent over-temperature protector, door-open shutdown, leakage/overcurrent protection, UV disinfection, temperature calibration, refrigeration overload protection, delayed start (IG-135SIS)

## 7. Memory function

Stores and safeguards key operating parameters for fast and convenient setup

## 8. Durable Construction

- MS powder coated exterior
- SS 304 interior



## 1. Triple Deck Cooling Incubator Shaker with temperature and shaking control (IG-ISCT)

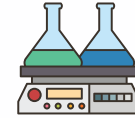


### Temperature & Shaking Control Curve

- Homogeneous temperature distribution across the entire shaking tray
- Ensures reproducible and reliable cultivation results
- Precise control of both temperature and shaking parameters
- Optimized performance with low energy consumption
- Available in both touch and non-touch models

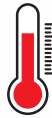
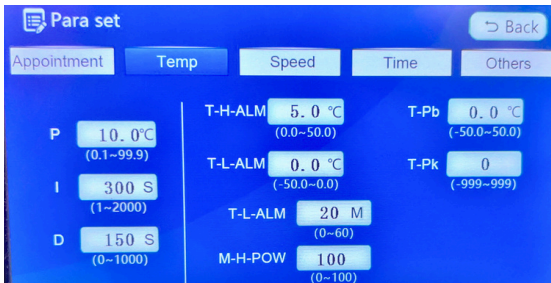


Temperature range: 5 - 60°C

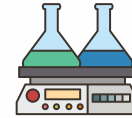


Shaking speed range: 20-300 rpm  
(Optional upto 350 rpm)

## 2. Triple Deck Non-Cooling Incubator Shaker with temperature and shaking control (IG-IST)



Temperature range: RT+5 - 60°C



Shaking speed range: 20-300 rpm  
(Optional upto 350 rpm)

Available in both touch and non-touch models

## 3. Triple Deck Incubator Shaker with temperature, CO<sub>2</sub> and shaking control (IG-ISTCO<sub>2</sub>)

### CO<sub>2</sub> control

- Reliable CO<sub>2</sub> control for mammalian and plant cell cultures, as well as algae
- CO<sub>2</sub>-controlled atmosphere inside the incubator enables precise pH adjustment of the culture medium
- Ensures optimal and reproducible culture conditions
- Backed by extensive expertise
- Available exclusively with a touch controller

Available in both cooling and non-cooling variants



## 4. Triple Deck Incubator Shaker with temperature, humidity and shaking control (IG-ISTH)



### Humidity control

- Controlled humidity minimizes evaporation, especially when working with microtiter plates
- Ideal for long-term cultivation in flasks, including cell culture applications
- Maintains stable culture conditions over extended operation
- Heated windows and door frames prevent condensation buildup
- Available exclusively with a touch controller

Available in both cooling and non-cooling variants



## 5. Triple Deck Incubator Shaker with temperature, light and shaking control (IG-ISTL)



### Light Intensity control

- Glare-free illumination up to 6000 lux
- Adjustable light intensity from 0–100%
- Enables programmable day–night light cycles when required
- Ideal for light-sensitive cultivation applications
- Available exclusively with a touch controller

Available in both cooling and non-cooling variants

## 6. Triple Deck Incubator Shaker with temperature, O<sub>2</sub> and shaking control (IG-ISTO2)



### O<sub>2</sub> control

- O<sub>2</sub> control available for precise regulation of oxygen levels inside the chamber
- Essential for cultivating cells and microorganisms with low or no oxygen demand (microaerophilic and anaerobic cultures)
- Enables simulation of hypoxic conditions for advanced cell culture applications
- Ensures stable and reproducible cultivation environments during shaking operation
- Supports sensitive biological processes without compromising temperature or agitation control





Can be configured as a single-stack floor-standing model



Designed in a double-stack configuration to maximize capacity while minimizing floor space. Can be stacked as a single unit as well.

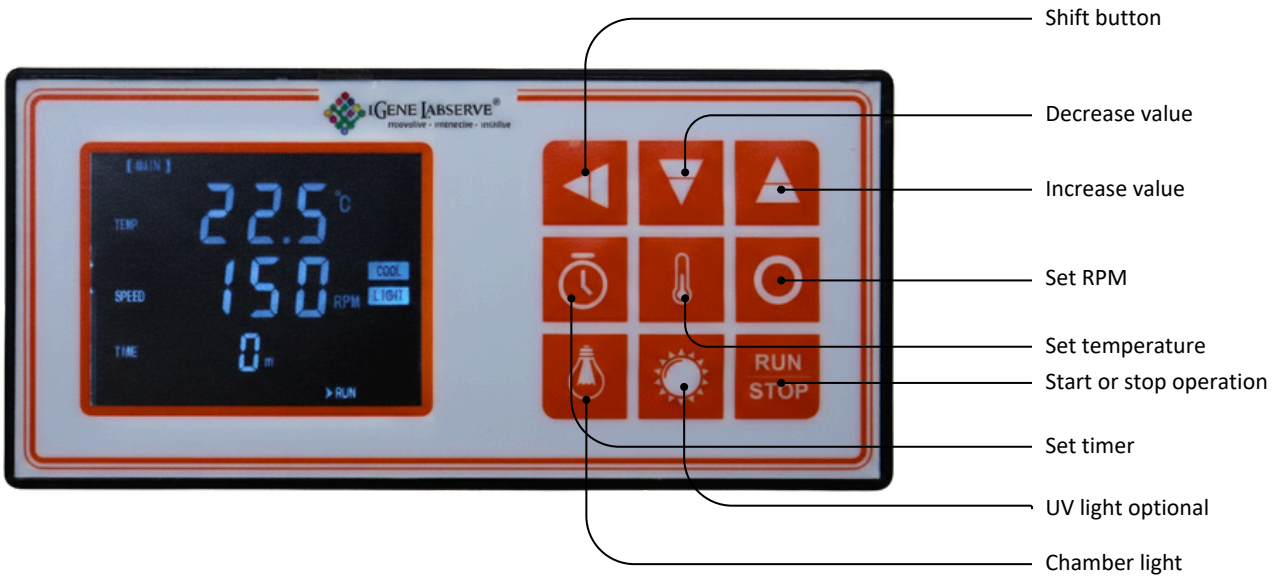


Configurable as a single-stack floor model mounted on a dedicated stand, ensuring a compact footprint and ergonomic working height.



Triple-stack configuration delivering higher capacity within a compact laboratory footprint. Can be stacked in single or double units as well.

PID Controller



Touch controller



Optional Features (Touch Controller)

- CO<sub>2</sub> control in ppm
- Humidity control in %
- O<sub>2</sub> control in ppm
- Illumination control in % with programmable day–night light cycle

## Single Deck & Double deck Incubator Shaker Technical Specification

Parameter	Specification
<b>Model No.</b>	IG-ISC (Single deck cooling), IG-IS (Single deck non cooling), IG-ISCD (Double deck Cooling)/ IG-ISD (Double deck Non-cooling)
<b>Shaker Speed</b>	40 – 250 RPM (350, 400 & 500 RPM optional)
<b>Orbit Diameter</b>	∅ 25 mm (Optional 50 mm)
<b>Speed Accuracy</b>	± 2% of maximum speed
<b>Temperature Range</b>	5°C above RT to 60°C With cooling: 5°C – 60°C (Customizable options available)
<b>Temperature Resolution</b>	0.1°C
<b>Temperature Accuracy</b>	±0.1°C at 37°C
<b>Power Supply</b>	230V ± 10%, 50 Hz

### Loading capacities with platform size

Platform Size	Holding Method	100 mL	250 mL	500 mL	1000 mL	2000 mL
18 x 18 inch (457.2 x 457.2 mm)	Sticky Mats (4 mats)	28	16	16	4	4
	Clamps	20	16	12	9	4
25 x 18 inch (635 x 457.2 mm)	Sticky Mats (6 mats)	40	24	20	6	6
	Clamps	24	18	12	6	6
34 x 21 inch (870 x 525 mm) (Triple deck platform size)	Sticky Mats (8 mats)	60	32	30	8	8
	Clamps	40	32	20	13	7

## Triple deck Incubator Shaker Technical Specification

Parameter	IG-IST	IG-TIST	IG-ISCT	IG-TISCT
Display	LCD	Touch Screen	LCD	Touch Screen
Controller	PID			
Shaking Mode	Rotary shaking			
Drive Mode	Multidimensional drive			
Circulation Mode	Forced convection			
Max. Capacity	250ml*32 or 500ml*20 or 1000ml*13 or 2000ml*7 (Flask clamp)			
Rotating Speed	20–300 rpm (Top layer-200 rpm, middle layer-250 rpm & bottom layer-300 rpm)			
Rotating Accuracy	±1 rpm			
Orbit Diameter	Φ26 mm (Optional: Φ35 20–250 rpm, Φ50 20–200 rpm)			
Temperature Range	RT+5–60°C	RT+5–60°C	5-60°C (at 25°C)	5-60°C (at 25°C)
Temperature Accuracy	±0.1°C			
Temperature Uniformity	±0.6°C (at 37°C)			
Timing Range	0–9999 h/min			
Shaking Plate Size	870 x 525 x 8 mm			
Shaking Plate Quantity	1 pc			
Standard Capacity	500 ml x 20			
Refrigerant	–	-	R134a	R134a
Heating Consumption	800–900 W			
Consumption	1000 W	1000 W	1200 W	1200 W

## Ordering Informaion

Model No.	Description	Unit
<b>IG-18ISC</b>	The 18x18 inches Single deck Cooling Incubator Shaker comes complete with main body, power cord, tray, spanner, 2x16 A fuses, and 2 kVA stabilizer.	1 Unit
<b>IG-18IS</b>	The 18x18 inches Single deck Non-Cooling Incubator Shaker comes complete with main body, power cord, tray, spanner, 2x16 A fuses, and 2 kVA stabilizer.	1 Unit
<b>IG-25ISCD</b>	The 25x18 inches Double deck Cooling Incubator Shaker comes complete with main body, power cord, tray, spanner, 2x16 A fuses, and 2 kVA stabilizer.	1 Unit
<b>IG-25ISD</b>	The 25x18 inches Double deck Non-cooling Incubator Shaker comes complete with main body, power cord, tray, spanner and 2x16 A fuses.	1 Unit
<b>IG-IST</b>	The Triple deck non-cooling Incubator Shaker with PID (IG-IST) or touch controller (IG-TIST) is supplied with main body, power cord, spanner, drainpipe, Allen key, 10x nut & bolt (for three stacks), and 2x10 A fuses.	1 Unit
<b>IG-ISCT</b>	The Triple deck cooling Incubator Shaker with PID (IG-ISCT) or touch controller (IG-TISCT) is supplied with a main body, power cord, spanner, drainpipe, Allen key, 10x nut & bolt (for three stacks), and 2x 10 A fuses.	1 Unit
<b>IG-ISTCO2</b>	The Triple deck incubator shaker with a touch controller, equipped with temperature, shaking, and CO <sub>2</sub> control options, is supplied with the main unit along with a power cord, spanner, drain pipe, Allen key, 10 sets of nuts and bolts (suitable for a three-stack configuration), and two 10 A fuses.	1 Unit
<b>IG-ISTH</b>	The Triple deck incubator shaker with a touch controller, equipped with temperature, shaking, and humidity control options, is supplied with the main unit along with a power cord, spanner, drain pipe, Allen key, 10 sets of nuts and bolts (suitable for a three-stack configuration), and two 10 A fuses.	1 Unit
<b>IG-ISTL</b>	The Triple deck incubator shaker with a touch controller, equipped with temperature, shaking, and light control options, is supplied with the main unit along with a power cord, spanner, drain pipe, Allen key, 10 sets of nuts and bolts (suitable for a three-stack configuration), and two 10 A fuses.	1 Unit
<b>IG-ISTO2</b>	The Triple deck incubator shaker with a touch controller, equipped with temperature, shaking, and O <sub>2</sub> control options, is supplied with the main unit along with a power cord, spanner, drain pipe, Allen key, 10 sets of nuts and bolts (suitable for a three-stack configuration), and two 10 A fuses.	1 Unit

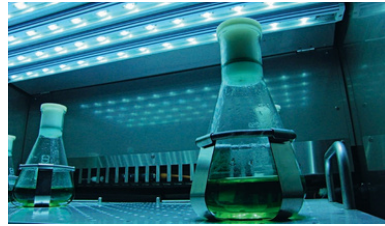
### Note:

- Double Deck Incubator Shaker systems are stackable up to a maximum of 2 units. Model numbers indicate stacking configuration: "1" = single unit, "2" = two units (e.g., IG-ISCD1 / IG-ISCD2, IG-ISD1 / IG-ISD2).
- Triple Deck Incubator Shaker systems are stackable up to a maximum of 3 units. Model numbers indicate stacking configuration: "1" = single unit, "2" = two units, "3" = three units (e.g., IG-ISCT1 / IG-ISCT2 / IG-ISCT3, IG-IST1 / IG-IST2 / IG-IST3 etc).



### UV Lamp

The incubator shaker chamber can be sterilized using an integrated UV lamp, operated via a clearly labeled external switch.



### Illumination Unit for Photosynthesis (LED)

iGene stackable incubator shaker can be equipped with ceiling-mounted LED modules for the cultivation of phototrophic organisms. The integrated control module enables precise programming of day/night cycles along with adjustable light intensity.



### Shelf

The incubator shakers can be equipped with an optional shelf for cultivation in Petri dishes. The shelf is mounted above the shaking table, providing a stable and convenient platform for static cultures.



### IQ/OQ/PQ Documentation

IQ/OQ/PQ documentation, required for GMP compliance, is available for all iGene incubator shakers. Complete documentation is provided by iGene Labserve and on-site qualification services can also be carried out at the customer's premises.



### Touchscreen

with for advanced and intuitive operation. Available for all incubator shaker models.



### Floor Stand with Wheels

A floor stand for the IG-SIS series enables easy and convenient opening of the unit. Available for all stackable incubator shaker models.



### Universal FU-Tray System

Universal FU-tray system with a wide range of interchangeable holders to accommodate different vessel types.



Test tube stand



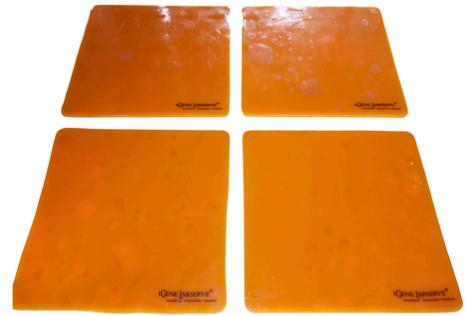
High-capacity test tube holders



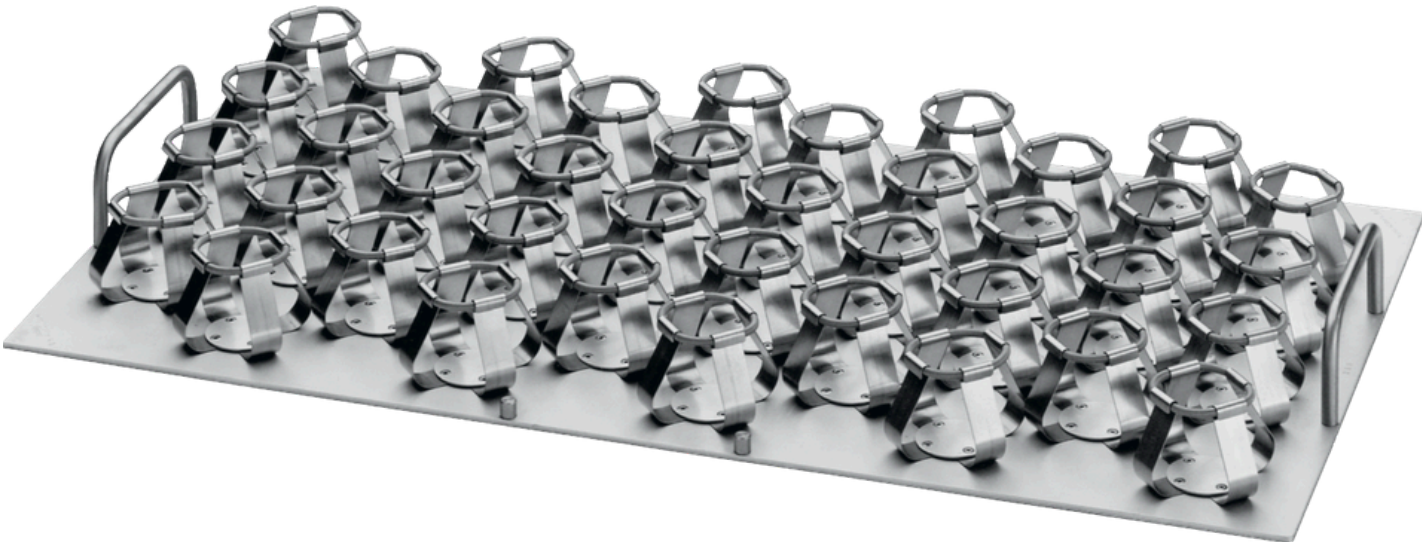
## Optional Accessories



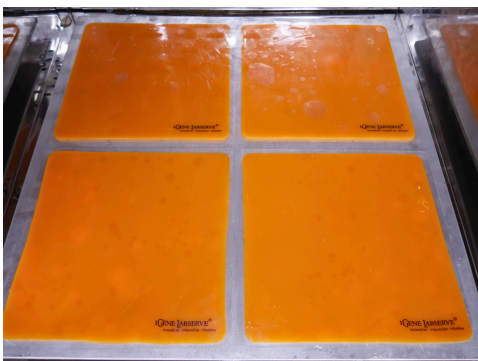
Clamps



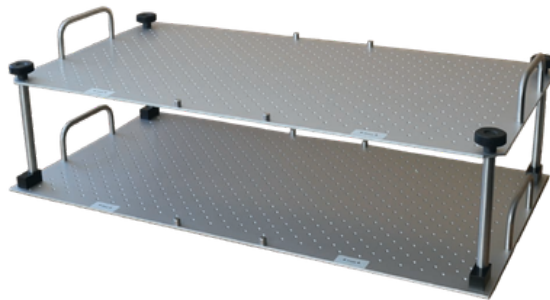
Sticky mats



Trays with fixed clamps



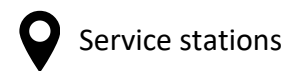
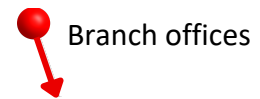
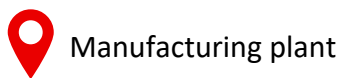
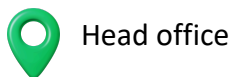
Trays with sticky mats



Dual tray




Trays for microtiter plates



10000+ Installations globally

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