

# LOOP STERILIZER



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# 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.

## DESCRIPTION

iGene Labserve's Loop Sterilizers provide safe, flame-free sterilization of inoculating loops, needles, and other small metal tools. Designed for microbiology, biochemistry, clinical, and pharmaceutical laboratories, these sterilizers eliminate the need for alcohol lamps or gas burners, reducing fire hazards and ensuring a contamination-free environment. With models offering ceramic heating or advanced infrared technology, iGene delivers efficient, compact, and reliable sterilization solutions.

## KEY FEATURES

### IGN-800D

- Flameless Sterilization** – Replaces traditional alcohol lamps and Bunsen burners, eliminating fire hazards in the laboratory.
- High Temperature Performance** – Heating chamber reaches up to 800°C, ensuring complete sterilization of loops and needles within 5–7 seconds.
- Anaerobic Chamber Compatibility** – Can be safely used inside anaerobic chambers for specialized microbiology applications.
- Compact & Lightweight Design** – Small footprint, lightweight build, and easy cleaning make it suitable for laboratories with limited bench space.
- Safe & Clean Operation** – Organic substances are incinerated deep within the ceramic heating funnel, preventing infectious spatter and cross-contamination.
- Precise Temperature Control** – Equipped with advanced temperature regulation and overload protection to extend the device's lifespan and ensure consistent performance.

### IG-800CN

- Instant Heating Performance** – Uses an advanced Infrared-Tungsten Halogen Lamp to rapidly heat up to 900–1300°C within seconds, eliminating the need for preheating.
- Infrared Sensor Trigger** – Hands-free operation: the sterilizer automatically activates when loops or needles are inserted into the heating zone.
- Automatic Shutdown** – Heating stops automatically 7 seconds after sterilization, enhancing safety and energy efficiency.
- Safe, Flame-Free Operation** – No naked flame or flammable gases required, making it ideal for restricted and sensitive laboratory environments.
- Anaerobic Compatibility** – Designed to work in anaerobic conditions, allowing use in oxygen-free microbial experiments.
- Low Energy Consumption** – Operates at only 600 W, reducing running costs while maintaining high sterilization efficiency.
- Compact & Durable Design** – Space-saving unit with a quartz glass heating tube and built-in radiator for effective cooling.
- Enhanced Safety Standard** – Certified with Protection Class IP20, ensuring operator safety in standard laboratory environments.
- Always Ready for Use** – Unlike conventional units, no waiting time or preheating is required; the system is ready for immediate sterilization.

# TECHNICAL SPECIFICATIONS

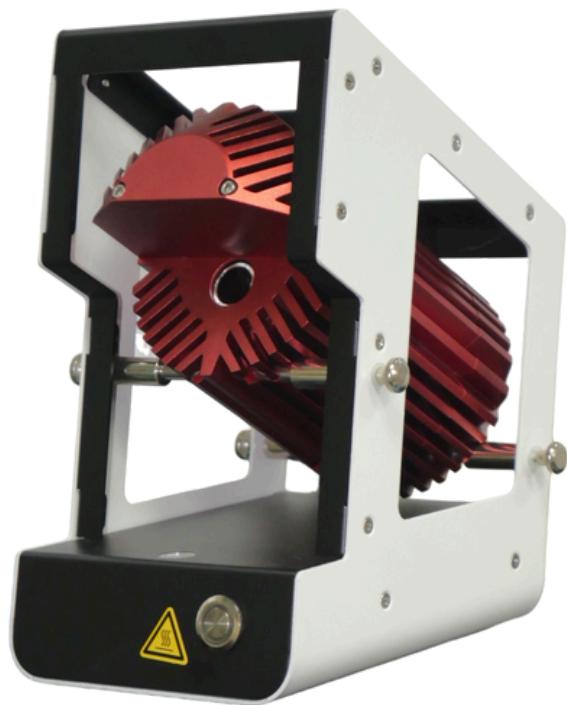
Specification	IGN-800D	IG-800CN
<b>Heat Source</b>	Ceramic Heating Element	Infrared-Tungsten Halogen Lamp
<b>Heating Temperature</b>	400 – 800°C	900 – 1300°C
<b>Heating Speed</b>	~20 min to reach max temp	Instant (within seconds)
<b>Sterilization Time</b>	5–7 seconds	7 seconds (auto shutdown)
<b>Heating Zone Size</b>	Φ35 × 100 mm	Φ15 × 100 mm
<b>Angle Adjustment</b>	Fixed	Fixed
<b>Anaerobic Chamber Use</b>	Yes	Yes
<b>Safety Features</b>	Overload protection, closed ceramic funnel	Infrared sensor activation, auto-shutdown, IP20 protection
<b>Power Consumption</b>	400 W	600 W
<b>Voltage Supply</b>	110/220 V, 50–60 Hz	110/220 V, 50–60 Hz
<b>Dimensions (mm)</b>	92 × 101 × 170	160 × 140 × 220
<b>Net Weight</b>	1.1 kg	2.6 kg



**IG-800CN**



**IG-800D**



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