iGene Labserve®

Innovative · Interactive · Intuitive

iClean Flow Series

Laminar Air Flow Cabinets & PCR Workstation

Engineered for Cleanroom Confidence

iGene Labserve

Compact, low-height design for seamless integration into any lab space.

Extended workspace within the same footprint.

Available in both horizontal and vertical models with the same dimensions.

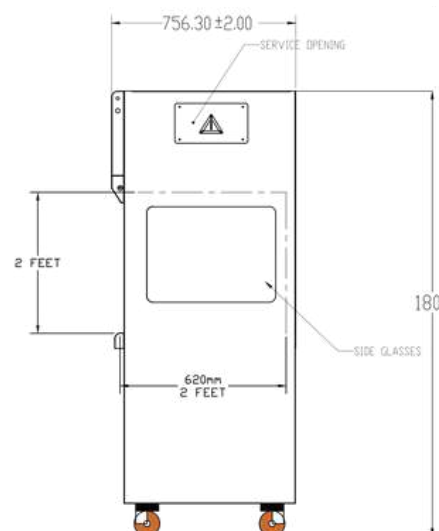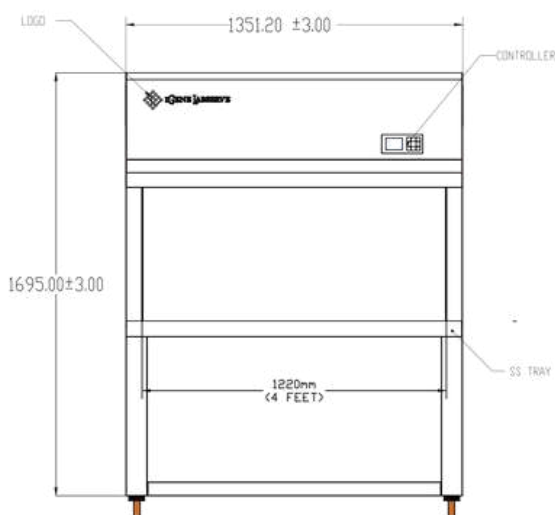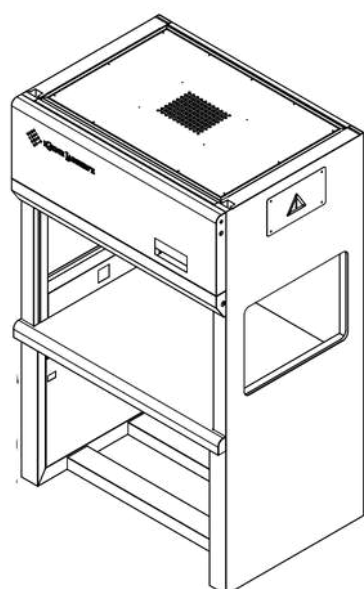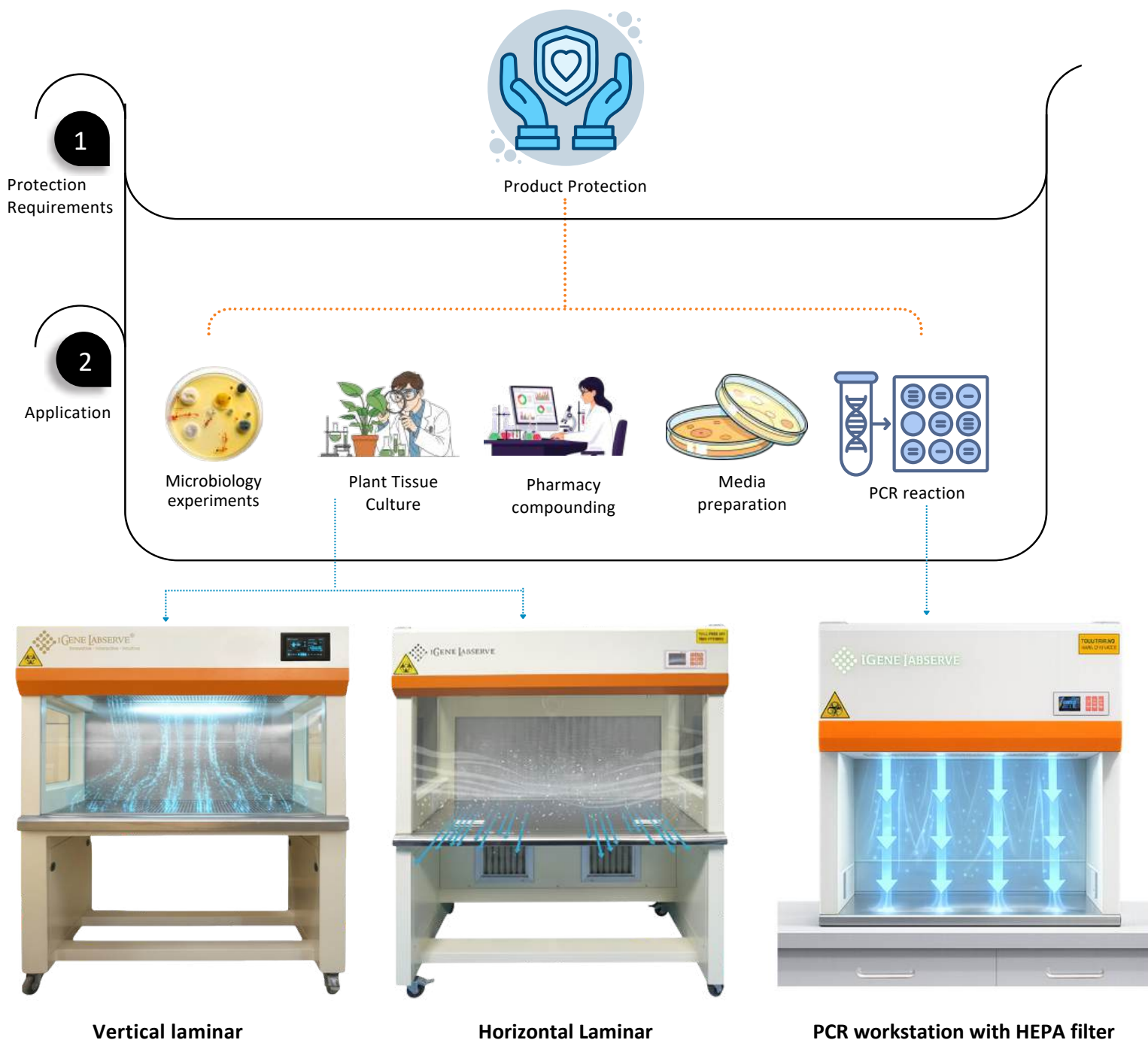## ISO Class 100 | H14 HEPA | Unidirectional Airflow

Product Protection

1

Protection Requirements

2

Application

| Microbiology experiments | Plant Tissue Culture | Pharmacy compounding | Media preparation | PCR reaction |

Vertical laminar

Horizontal Laminar

PCR workstation with HEPA filter

LOGO — 1351.20 ±3.00 — CONTROLLER

1695.00±3.00

1220mm (4 FEET) — SS TRAY

756.30 ±2.00 — SERVICE OPENING

2 FEET

620mm 2 FEET

180

SIDE GLASSES
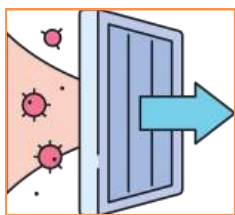
Pre filter

- Box-type pleated pre-filters
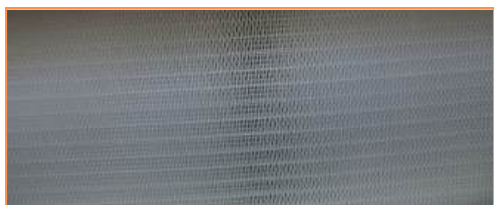- 95% efficient filtering particles down to 5 microns
- Material: high-density polyethylene (HDPE), non-woven fabric, and HDPE mesh, and are housed in an aluminium case for durability

HEPA Filter

- H14 ensure minimal pressure drop while maintaining high filtration performance
- 99.97% efficiency @ 0.3 µm
- Housed in an anodized aluminium case for enhanced durability

Durable Construction

- Mild steel powder coated exterior
- Stainless steel interior
- A full stainless steel construction option is available

Thoughtfully Designed Working Area

- Toughened glass side viewing window
- Well-lit working area by fluorescent lighting, ensuring excellent visibility
- SS workbench with curved edges, offering durability and easy cleaning
- Manual or motorized sash

Inbuilt stand

The model without an in-built stand is also available; a separate stand is provided along with the tray.
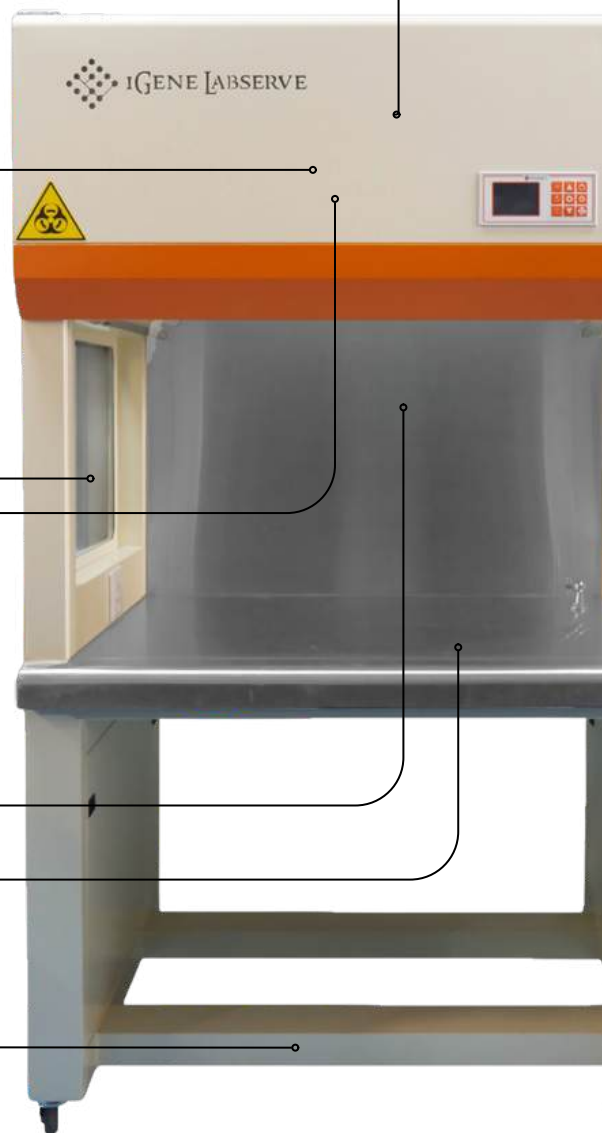
Standard fittings

 Air/gas cock

 Mains ON/OFF switch

 Light ON/OFF switch

 UV Light ON/OFF switch

 Blower ON/OFF switch

Laminar Air Flow Cabinet Optional Features

- Motorized sliding door
- LCD display for velocity, time & lamp on/off UV Germicidal lamp
- UV Hour meter
- Magnehelic gauge
- Extra power outlet switch
- Foot rest
- Levelling legs for stand
- DOP HEPA filter testing

PCR Workstation Option Features

- Germicidal UV lamp for pre-sterilisation
- Extra electrical sockets and Magnehelic gauge
- Certified with ISO & CE Certification
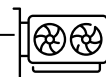
Blower Assembly

- High-speed blower running at 1400 RPM, ensuring consistent and reliable performance.
- Anodized aluminum impellers deliver strong, reliable airflow, ensuring efficient and dependable system operation.
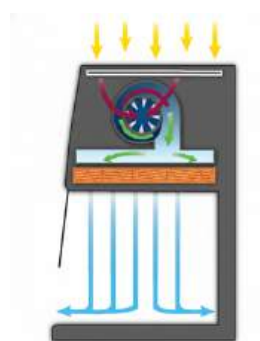
TOLL FREE NO.
1800-572-0603

BSERVE

Control Panel

LCD display PID controller

PID Touch controller

Airflow pattern
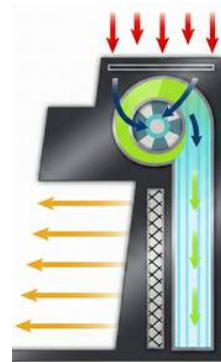
→ Room air

→ HEPA Filtered, Positive Pressure Air

→ Pre-Filtered, Positive Pressure Air

→ Pre-Filtered, Negative Pressure Air

Vertical laminar

→ Room air

→ Pre-Filtered, Negative Pressure Air

→ Pre-Filtered, Positive Pressure Air

→ HEPA Filtered, Positive Pressure Air

Horizontal laminar

Contaminated Airflow   **Laminar Airflow**

HEPA Filter
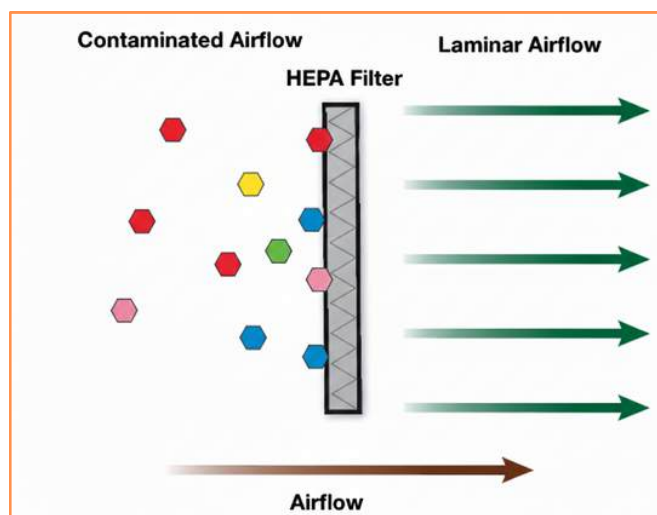
Airflow

HEPA-filtered air flows uniformly in one direction, creating a clean, particle-free work area by continuously removing contaminants.

Controller and Monitoring Systems

2200 Series

- Filter life indicator
- Sash height indicator
- UV Light ON/OFF
- Up/ Increase
- Power button
- Fluorescent lamp ON/OFF
- Setting
- Blower ON/OFF
- Down/ Decrease
- Internal Socket ON/OFF
- Current temperature
- UV Life indicator
- Fluorescent lamp ON indicator
- Time left for the current cycle
- Total run time

2400 Series

- Total run time
- Current run time
- Current temperature
- Login information
- Filter life indicator
- UV life indicator
- Sash up
- Filter pressure
- Sash down
- Light ON/OFF
- Internal socket ON/OFF
- Mute ON/OFF
- Fan ON/OFF
- UV ON/OFF
- Tabular and graphical logs of data

Laminar AIr Flow Cabinet & PCR Workstation Technical Specification

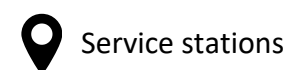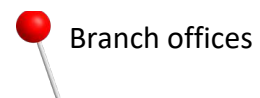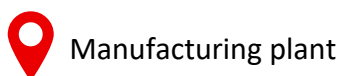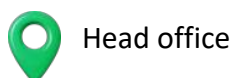| Parameter	Laminar Air Flow Cabinet (IG-LAF Series)	PCR Workstation (IG-PCR Series)
Primary Application	General sterile work: media preparation, microbiology, plant tissue culture, pharma applications	PCR setup, nucleic acid amplification, contamination-sensitive molecular biology work
Airflow Direction	Vertical or Horizontal	Vertical
Air Cleanliness Class	ISO Class 100	ISO Class 100
Air Velocity	0.4 – 0.6 m/s (standard ~0.45 m/s)	0.45 – 0.65 m/s
Filtration System	Pre-filter (5 microns, washable) + HEPA filter (0.3 microns, 99.97% efficiency)	Pre-filter (10 microns, washable) + HEPA filter (0.3 microns, 99.97% efficiency)
HEPA Filter Grade	H14, anodized aluminium frame	Anodized aluminium frame
Blower / Motor	¼ HP motor, 1400 RPM with anodized aluminium impellers	¼ HP motor, 1400 RPM with anodized aluminium impellers
Construction (MOC)	Full SS 304/316 or Inner SS & Outer Powder-coated MS / GI	Full SS 304/316, Inner SS & Outer MS, or SS workbench with MS body
Work Surface	Stainless steel with curved edges	SS 304 workbench
Front Sash	Manual or motorized sliding sash (acrylic / toughened glass)	Manual sliding sash (transparent acrylic)
Side Panels	Acrylic / Polycarbonate / Stainless Steel	Acrylic / Polycarbonate / Stainless Steel
Illumination	Fluorescent or LED; optional UV (≈800 lux, glare-free)	Fluorescent or LED
UV Germicidal Lamp	Optional	Optional
Noise Level	65 ±5 dB	65 ±5 dB
Power Supply	220 V, 50 Hz	220 V, 50 Hz
Standard Fittings	Air/Gas cock, mains switch, blower, light & UV switches	Air/Gas cock, mains switch, blower, light & UV switches
Additional Electrical Socket	Optional	Standard
Certifications	ISO & CE Certified	ISO & CE Certified
User Protection	Product protection only	Product protection only

Model No.	Description	Unit
IG-LAF22-H/ IG-LAF22-V	The Laminar Air Flow Cabinet features a 2 × 2 × 2 ft working area with internal dimensions of 610 × 610 × 610 mm, equipped with one 2 ft × 2 ft × 3 in HEPA filter and one pre-filter. The standard supply includes the main body, inbuilt power cord, gas cock, 4-piece stand, 6-piece nut and bolt set, and two 10 Amp fuses. Models with a stand include a removable tray, while non-stand models are provided with an inbuilt tray.	1 Unit
IG-LAF32-H/ IG-LAF32-V	The Laminar Air Flow Cabinet features a 3 × 2 × 2 ft working area with internal dimensions of 915 × 610 × 610 mm, equipped with one 3 ft × 2 ft × 3 in HEPA filter and one pre-filter. The standard supply includes the main body, inbuilt power cord, gas cock, 4-piece stand, 6-piece nut and bolt set, and two 10 Amp fuses. Models with a stand include a removable tray, while non-stand models are provided with an inbuilt tray.	1 Unit
IG-LAF42-H/ IG-LAF42-V	The Laminar Air Flow Cabinet features a 4 × 2 × 2 ft working area with internal dimensions of 1220 × 610 × 610 mm, equipped with one 4 ft × 2 ft × 3 in HEPA filter and one pre-filter. The standard supply includes the main body, inbuilt power cord, gas cock, 4-piece stand, 6-piece nut and bolt set, and two 10 Amp fuses. Models with a stand include a removable tray, while non-stand models are provided with an inbuilt tray.	1 Unit
IG-LAF62-H/ IG-LAF62-V	The Laminar Air Flow Cabinet features a 6 × 2 × 2 ft working area with internal dimensions of 1828 × 610 × 610 mm, equipped with one 3 ft × 2 ft × 3 in HEPA filter and 2 pre-filters. The standard supply includes the main body, inbuilt power cord, gas cock, 4-piece stand, 6-piece nut and bolt set, and two 10 Amp fuses. Models with a stand include a removable tray, while non-stand models are provided with an inbuilt tray.	1 Unit
IG-LAF82-H/ IG-LAF82-V	The Laminar Air Flow Cabinet features an 8 × 2 × 2 ft working area with internal dimensions of 2438 × 610 × 610 mm, equipped with one 4 ft × 2 ft × 3 in HEPA filter and 2 pre-filters. The standard supply includes the main body, inbuilt power cord, gas cock, 4-piece stand, 6-piece nut and bolt set, and two 10 Amp fuses. Models with a stand include a removable tray, while non-stand models are provided with an inbuilt tray.	1 Unit
IG-PCR222	The PCR workstation features a 2 × 2 × 2 ft working area with internal dimensions of 610 × 610 × 610 mm, equipped with one 2 ft × 2 ft × 3 in HEPA filter and 1 pre-filter. The standard supply includes the main body, inbuilt power cord, 4-piece stand, 6-piece nut and bolt set, tray and two 10 Amp fuses.	1 Unit
IG-PCR322	The PCR workstation features a 3 × 2 × 2 ft working area with internal dimensions of 915 × 610 × 610 mm, equipped with one 3 ft × 2 ft × 3 in HEPA filter and 1 pre-filter. The standard supply includes the main body, inbuilt power cord, 4-piece stand, 6-piece nut and bolt set, tray and two 10 Amp fuses.	1 Unit
IG-PCR422	The PCR workstation features a 4 × 2 × 2 ft working area with internal dimensions of 1220 × 610 × 610 mm, equipped with one 4 ft × 2 ft × 3 in HEPA filter and 1 pre-filter. The standard supply includes the main body, inbuilt power cord, 4-piece stand, 6-piece nut and bolt set, tray and two 10 Amp fuses.	1 Unit

Note:

- External dimensions vary based on stand.
- "-H" denotes Horizontal airflow and "-V" denotes Vertical airflow (Laminar Air Flow only).
- All models comply with ISO Class 100 air cleanliness standards.
- Custom dimensions, construction material, and optional features available on request.

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