



BIOLOGICAL SAFETY CABINET

CLASS II , TYPE A2





OUR INTRODUCTION

LET US INTRODUCE OURSELVES AS AN IN-HOUSE OF RESEARCH AND DEVELOPMENT UNIT FOR INSTRUMENTS USED FOR SETTING UP OF RESEARCH, ANALYTICAL AND CLINICAL LABORATORIES. WE ALSO TAKE THE GUIDANCE AND EXPERTISE OF RENOWNED SCHOLARS AND TECHNICIANS IN THEIR RESPECTIVE AREAS TO SET UP THESE LABS. GENESYS OFFERS YOU ALL INSTRUMENTS FOR MICROBIOLOGY, BIOTECHNOLOGY, BLOOD BANK, IVF/ART (IN VITRO FERTILIZATION/ASSISTED REPRODUCTIVE TECHNOLOGY), CLINICAL RESEARCH, AND INDUSTRIAL LABS, WHICH MEET THE REQUIREMENTS FOR FASTER AND ACCURATE PROCESSING, COMPLIANCE TO CE & ISO STANDARDS

SINCE OUR ESTABLISHMENT FROM THE YEAR 2005, WE'VE BEEN NURTURING ALL THE INSTRUMENTS AND EQUIPMENT NEEDS FOR SETTING UP OF RESEARCH, ANALYTICAL AND CLINICAL LABORATORIES. AS A CUSTOMER-ORIENTED COMPANY, WE ARE DETERMINED TO SERVE OUR WORLDWIDE CUSTOMERS WITH ONLY HIGH QUALITY PRODUCTS, SUPERIOR SERVICE & TECHNICAL SUPPORT AT VERY REASONABLE PRICES. WE OFFER MODERN EQUIPMENTS BOTH INDIGENOUS AND IMPORTED SO AS TO GIVE OUR CUSTOMERS THE VERY BEST WORK ENVIRONMENT AVAILABLE. OUR PRIME FOCUS IS TO PROVIDE CUSTOMIZED PRODUCT WITH HIGH QUALITY, IMMEDIATE SERVICE, AND TECHNICAL SUPPORT AT REASONABLE PRICES.



V I S I O N O F F U T U R E



Genesys biological safety cabinets improve laboratory safety, energy efficiency, and laboratory ergonomics. The angled front, narrow profile front grille, raised armrest and frameless sash create an ergonomic work environment. Dual-wall construction surrounds the work zone with negative pressure plenums for maximum safety. Long life ULPA/HEPA filter provide continuous and steady airflow.

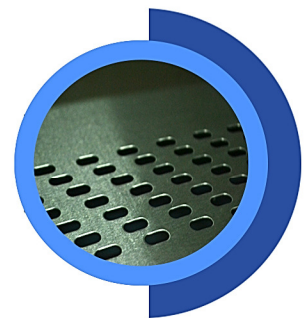
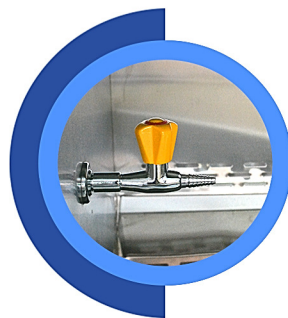
MAGNEHELIC GAUGE

Analog Gauge is provided for accurate pressure monitoring within the unit. The average pressure that should be maintained approximately 10 mmHg.

ELECTRICAL OUTLETS AND UTILITY LINES

- 6 ampere Electric outlet is provided inside the cabinet
- Petcocks are available for Gas and Vacuum.

BIOLOGICAL SAFETY CABINETS



Robust construction and enhanced safety features qualify the cabinet for the most demanding laboratory applications. The cabinet is fully assembled and ready to install and operate when shipped.

- The interior work area is formed from a single piece of stainless-steel with large radius corners to simplify cleaning.
- The cabinet work zone has no welded joints to collect contaminants or rust.
- All stainless steel work surfaces are accessible for cleaning.
- Tray components lift and remove to provide easy access and encourage surface decontamination.
- A recessed central area and drain pan contain spills and prevent liquids from entering the lower filtration and blower systems.
- There are no screws on the front or sides to trap contaminants or complicate cleaning.

FILTRATION

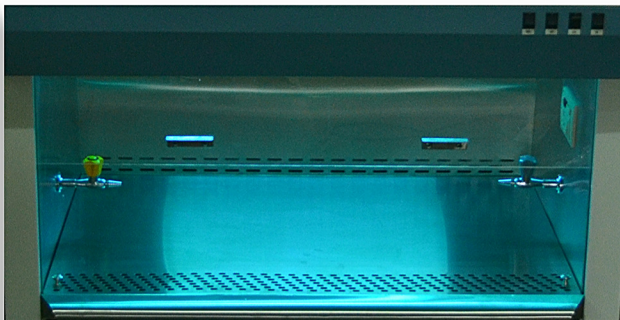
A combination of a supply ULPA/HEPA filter and an exhaust ULPA/HEPA filter gives the cabinet a fully integrated performance envelope for product, operator and environmental protection.

BLOWER COMPETENCE

- The Airstream blower system is designed for high performance operation, maximum energy efficiency and minimal maintenance.
- The permanently lubricated direct-drive external rotormotor / blower reduce operating costs.
- The external rotor motor design allows for optimum cooling of the motor during extended operations and extends the motor bearing life.

UV LIGHTS

- ☑ Emission of 254nm for more effective decontamination
- ☐ Light is positioned away from the User line of sight for safety and proper exposure to interior surfaces
- ☐ Controlled by a switch fixed on the front panel.



SERVICE FITTING ACCESS

The cabinet is prepared for easy installation of optional gas and vacuum fittings. Optional service fittings openings are offset for easier access.

ACCESSORIES & OPTIONS

Support Stand : Fixed height, standard size of 2.5 ft stand is available or stand can be customized according to the space availability.

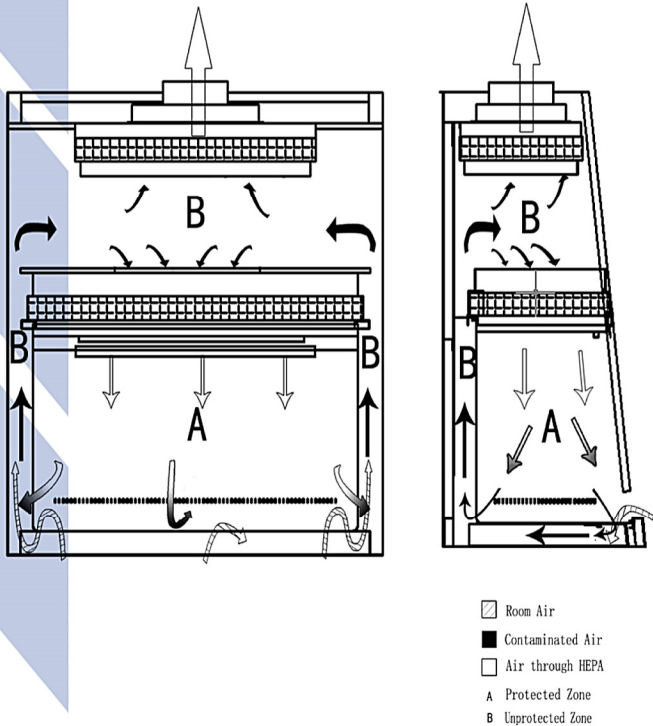
COMFORTABLE ERGONOMIC DESIGN

The cabinets are engineered for comfort, utility value and safety.

- ☐ The angled viewing window improves reach into the work area.
- ☐ The instant-start fluorescent/LED lamp operates to reduce heat, improve comfort and conserve energy.
- ☐ The lamp delivers uniform lighting to the work surface for greater comfort, reduced glare and improved productivity.
- ☐ The front armrest is raised above the work zone to improve comfort and to ensure that the operator's arms do not block the forward airflow perforations.
- ☐ The frameless sash eliminates operator's line of sight blockage
- ☐ The sliding window can be fully opened to insert and remove larger instrumentation and equipment.

CABINET FILTRATION SYSTEM

Ambient air is pulled through the front grille to prevent contamination of the work surface and work product. The inflow does not mix with the clean air within the cabinet work zone. Inflow air travels through a return path toward the common air plenum (blower plenum) at the top of the cabinet.

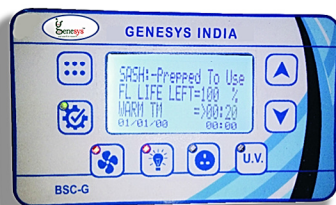


Ambient air is taken in through a pre-filter at the top of the cabinet, and passes through the downflow filter, entering the work zone as laminar flow. The uniform non-turbulent air stream protects against cross contamination within and throughout the work area.

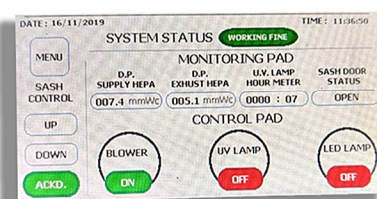
Near the work surface, the downflow air stream splits with a portion moving toward the front air grille, and the remainder moving to the rear air grille. All the filtered downflow enters the intake perforations at the back side capture zones in the work area. The uniform, non-turbulent air stream protects against cross contamination within and throughout the work area.

A combination of inflow and downflow air streams forms an air barrier that prevents contaminated room air from entering the work zone, and prevents work surface emissions from escaping the work zone. The downflow combined with the inflow air enters the common air plenum. All air in the common plenum is HEPA filtered and exhausted via a dedicated ducting system to the external environment.

PROGRAMMABLE MICROPROCESSOR CONTROL SYSTEM FEATURES:



LCD DISPLAY



HMI DISPLAY

- Advanced Micro-controller based.
- 16x2 LCD / 128x64 GLCD / 3.5" color TFT display.
- Four Soft touch ON/OFF Action key For Blower, UV, Lamp and Socket.
- Four digital reed inputs for sash window indication.
- Inbuilt UV hour meter with RESET option.
- User programmable system with password protected.
- Blower speed controlling in m/s or fpm for inlet and outlet Blower (Optional).
- Temperature and inlet/outlet air flow measurement.
- PC or Dot matrix Printer Connectivity (Optional).
- Sash sliding window UP/DOWN control.
- Easy to installation & user friendly wiring.
- Supply :
 - 90 to 260 VAC @ 50 Hz.

FILTRATION SYSTEM

- ▣ Minipleat HEPA filters are tested to a typical efficiency of >99.97% for 0.3 micron particles.
- ▣ Modern separator-less mini-pleat filter construction maximizes the filter surface area to extend filter life and eliminate possible filter media damage by thin and sharp aluminum separators used in conventional HEPA filter .
- ▣ The filter frame and media is constructed in accordance with EN 1822 requirements for fire retardant properties.
- ▣ The supply ULPA filter provides ISO Class 3 clean air to the work surface in a gentle vertical laminar flow for product protection.
- ▣ The exhaust HEPA filter traps biohazardous particles acquired from the work surface before air is exhausted via dedicated ducting to the outside environment or to the lab according to the type of equipment selected, offering operator and environmental protection.
- ▣ The exhaust filter media is protected from mechanical damage by an integrated metal guard, which is absent from conventional HEPA filters.

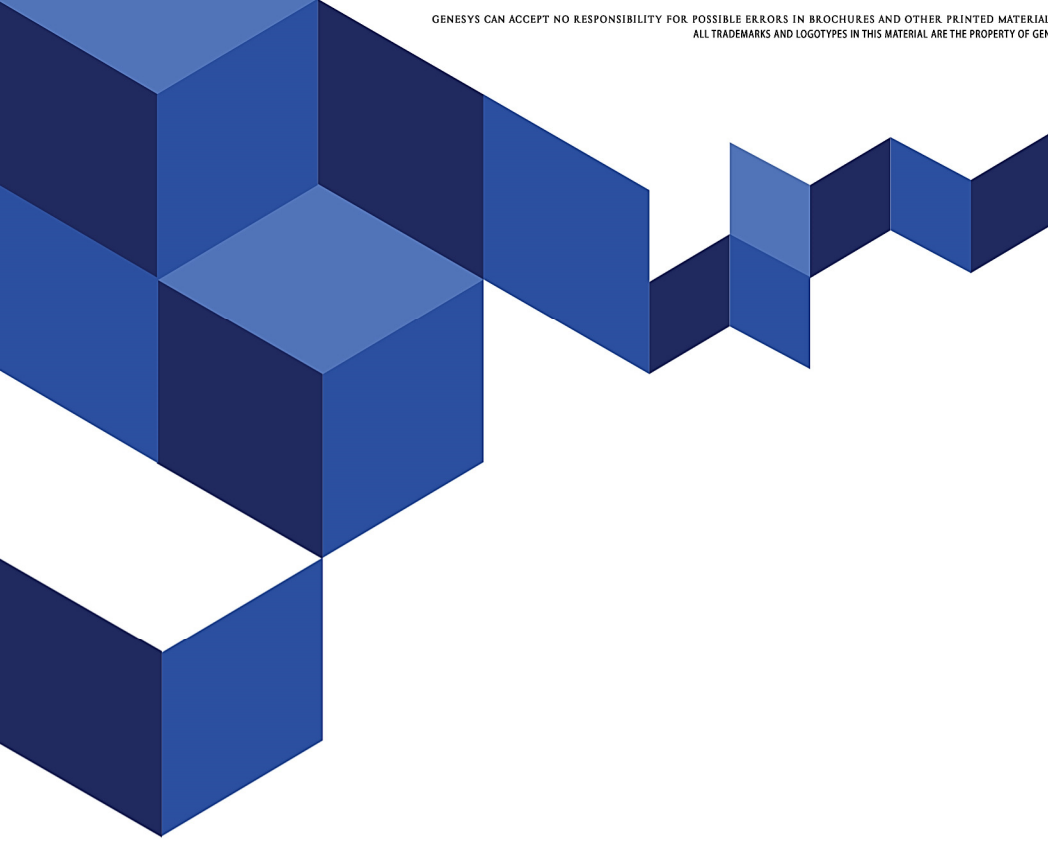


Catalog No.	GBSC-2A2	GBSC-3A2	GBSC-4A2	GBSC-6A2
Internal Dimensions (WDH) IN CM	60 x 60 x 60	90 x 60 x 60	120 x 60 x 60	180 x 60 x 60
Dimensions in Feet	2 x 2 x 2	3 x 2 x 2	4 x 2 x 2	6 x 2 x 2
Inflow Velocity	105 ±5 FPM (0.45 m/s) at initial set point			
Down Flow Velocity	55 ±5 FPM (0.30 m/s) at initial set point with uniformity of better than +/- 20%			
Body	Mild Steel Powder coated			
Working surface	Easily Removable AISI SS 304 surface			
Filters & pre-filters	Minipleat HEPA Filters or ULPA			
Filtration size	0.3 microns			
Filter efficiency	99.97% or 99.999%			
Illumination	2x40W Florescent light illumination			
Petcocks	For Air / Gas			
Door	Continuously variable height adjustment with UV resistant Polycarbonate sash			
UV light fitting	UV light (254 nm)			
Extra Electrical point	Yes, 15Amp, Multi- pin socket			
Exhaust Blower fan assembly	Yes.			
Recirculation	70 %			
Exhaust	30 %			
Stand	Provided with 2.5 ft stand			
Power Source	220V, 50-60Hz			
Certifications	Meets ISO and CE standards			



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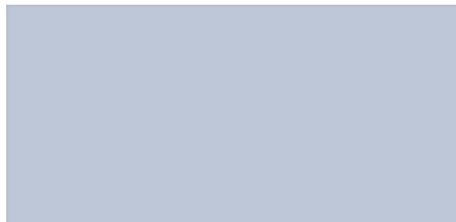
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