

Your **Safety** is not an Option
with **NuAire**





Recognizing the Difference

NuAire is universally recognized as the world leader in Class II Biological Safety Cabinets that offer better Personnel, Product, and Environmental Protection. Whether it's cabinet design, cabinet integrity, HEPA filters, safety alarms, or maintenance—NuAire quality means an outstanding value to you! It's why these Class II cabinets are the #1 selling Biological Safety Cabinets in the world.



www.nuaire.com

Improved Principles of Biological Safety Cabinet Design

1

True Laminar Airflow

Unidirectional airflow moving along parallel flow lines at a constant velocity minimizes air turbulence within the work zone. With proper laboratory techniques, activities within the work area can be performed safely and with minimal chance of cross-contamination.

2

HEPEX™ Zero Leak Airflow System

The HEPEX™ Zero Leak Airflow System provides quiet, uniform velocities throughout the entire sterile work zone. All positive pressure chambers and ducts are surrounded by vacuum or negative air pressure relative to the room. This feature eliminates the possibility of cabinet and gasket leaks. Uneven particulate loading is prevented by maintaining high-static pressure over the entire filter surface assuring True Laminar Airflow.

3

Greater Volume of Air Creates a Stronger Air Barrier

Air exchanges within the Class II Type A2 Biological Safety Cabinet occur 36 times per minute. This rapid air exchange system combined with an aerodynamic ergonomic air foil and a significantly larger access opening creates the strongest air barrier [personnel protection] of any biological safety cabinet.

4

Single Piece Stainless Steel Construction

Better cabinet integrity is an important long-term attribute of biological safety cabinets. Our superior design prevents leaks that may occur through failures of the gaskets and seams. NuAire Biological Safety Cabinets are designed and constructed of a single shell, all stainless steel, welded cabinet.

5

Larger, Long Lasting HEPA Filters

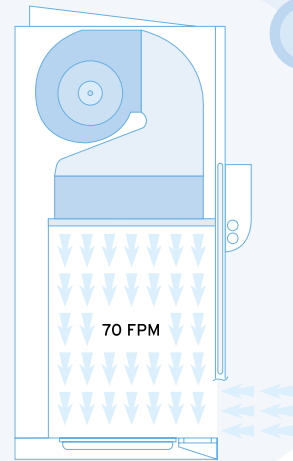
The most important design feature of any biological safety cabinet is the HEPA [High Efficiency Particulate Air] filter and how well the filters work within the system. Our individually selected HEPA filters are 25% larger, contain more surface area, and work well within the cabinet design to provide an even distribution of air across the filter.

6

Motor/Blower System Extends HEPA Filter Life

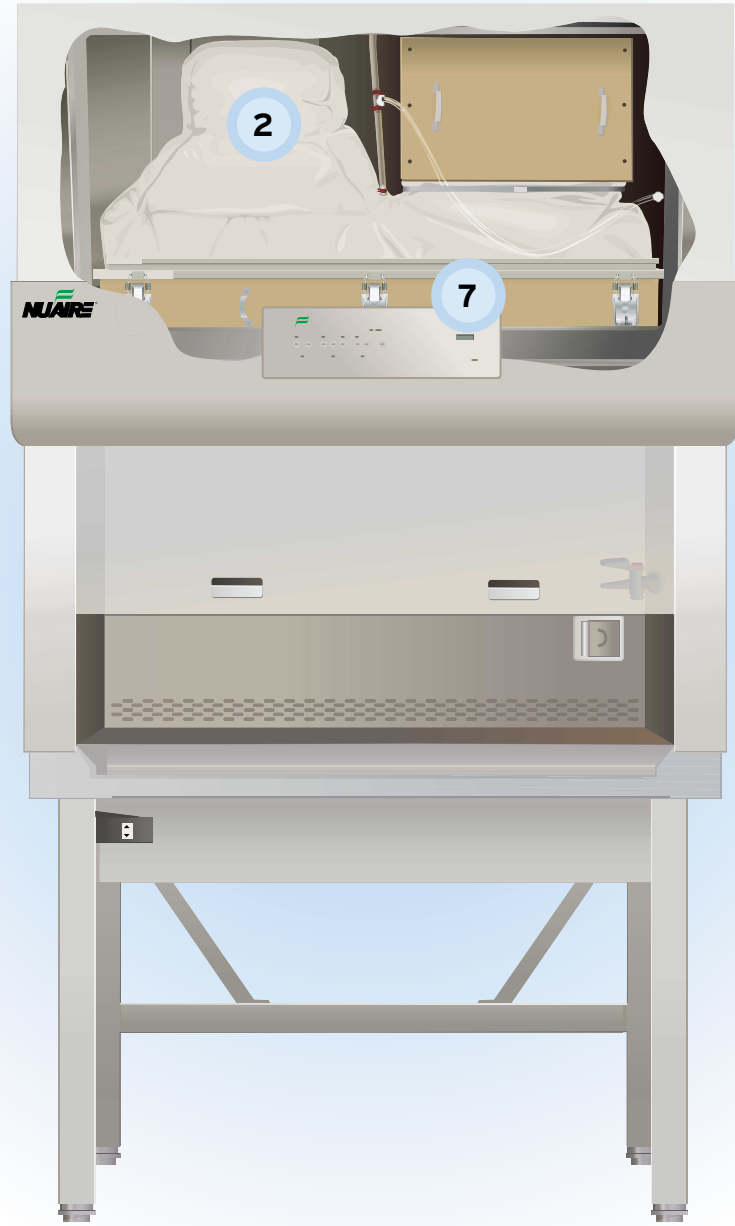
As the HEPA filter loads the motor/blower system automatically compensates to assure performance and extended filter life. HEPA filter life is further extended by use of a speed controller and an external adjustable damper that allows a service technician to properly maintain optimal airflows.

NuAire Class II Type A2 Biological Safety Cabinets are capable of automatically handling an 80% increase in pressure drop across the filter without reducing total air delivery more than 10%. With the use of the manual speed controller, the cabinet can handle more than a 200% increase in pressure drop across the filter.



4



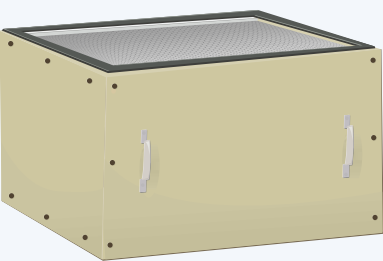


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NUAIRE

8



7 **Centrally Located Control Center**

The centrally located eye-level instrument Control Center is stylish, attractive, and easy to access. The easy-to-maintain Control Center is located well away from the contaminated work zone.

8 **State-of-the-Art Electronic Safety System**

The electronic control system is designed to service the control requirements of the biological safety cabinet. The control safety system consists of two electronic modules that perform the following functions:

Control blower via solid state switch

Control lights via solid state switch

Control outlets via solid state switch

Disable audible alarm switch with ring back function

Control blower motor with solid state regulator via potentiometer

Monitor and display airflow system performance via Flow Gard™ monitor

Airflow system alarm set points high/low via Flow Gard™ monitor

9 **Improved Quality, Easy to Clean, Reliable Equipment**

A well designed cabinet works better, lasts longer, and is safer and more efficient to operate. Lower operational costs means greater savings to the laboratory professional throughout the life time of the cabinet.

All NuAire Biological Safety Cabinets are designed to be quiet, easy to clean, and efficient to operate while requiring less maintenance.

10 **Biological Tolerance Testing Assures Optimal Performance**

A biological safety cabinet performance consists of a range of operational airflow parameters [air inflow and down flow velocities] within which a cabinet design will pass standard microbiological aerosol tests for personnel, product, and environmental protection.

Effective biological safety cabinet performance can be greatly affected by different laboratory conditions. Size of laboratory, location of cabinet within the room, traffic patterns of other laboratory personnel, electrical variations, airflow ducts and grills, and other equipment. The greater the extremes within which a cabinet will pass—the safer the cabinet design.

NuAire Class II Biological Safety Cabinets operate and can maintain maximum containment characteristics throughout a range of real-world conditions.





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