



LABGARD NU-581 CLASS II, TYPE A2

# BIOSAFETY CABINET

FOR HAZARDOUS DRUGS OR API POWDERS



The Safer Choice for Your Laboratory

[NUAIRE.COM](http://NUAIRE.COM)

# NUAIRE NU-581

## CLASS II, TYPE A2 BIOSAFETY CABINET

### Safe Handling of Cytotoxic API Powders

#### Wedge Canister HEPA Prefilter

The wedge canister size and shape of the HEPA pre-filter provides the necessary surface area for a longer filter life, and optimizing the replacement process.

#### The Ease of Bag-In / Bag-Out

1. Remove work surface
2. Remove paper catch grill over each wedge HEPA prefilter
3. Seal contaminated interior of each wedge HEPA filter
4. Remove four (2) fasteners per each wedge HEPA prefilter
5. Bag-Out used oval HEPA prefilter and replace



**Note:** Filter change process should be performed by a qualified service technician.

### Ergonomic Design

NuAire equipment is designed to reduce arm, shoulder, and neck strain which can contribute to common workplace injuries.

#### Ergonomic Features Include:

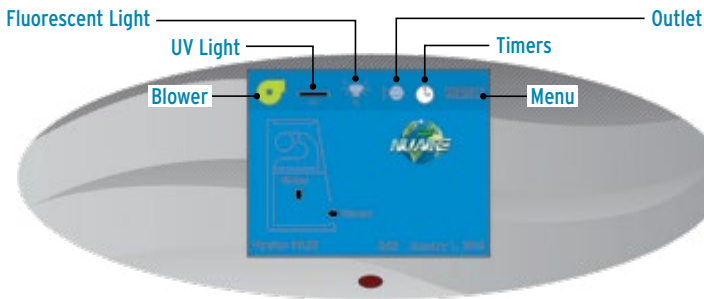
- Designed for American's with Disabilities Act (ADA)
- Centrally located control panel for easy operation
- Ability to sit or stand at a range of heights with optional motorized base stand, adjustable chair, and footrest
- Maximum knee clearance with optimal base stand
- Large work surface provides ample space
- A large access opening with cool white lighting offers greater visibility and better sight-lines into the work zone



## CLASS II, TYPE A2 BIOSAFETY CABINET

### The TouchLink Touchscreen LCD

The TouchLink Touchscreen LCD Control Center provides control of all biosafety cabinet functions. Displaying airflow measurements, alarms, detailed diagnostics, and step-by-step decontamination procedures. TouchLink also integrates quickly with facility security systems.



### HEPEX™ Zero Leak Airflow System

The HEPEX™ Zero Leak Airflow system evenly disperses air over the supply HEPA filter, minimizes vibration transfer from the blower motor, and prevents leaks by surrounding all positive pressure chambers with negative pressure.



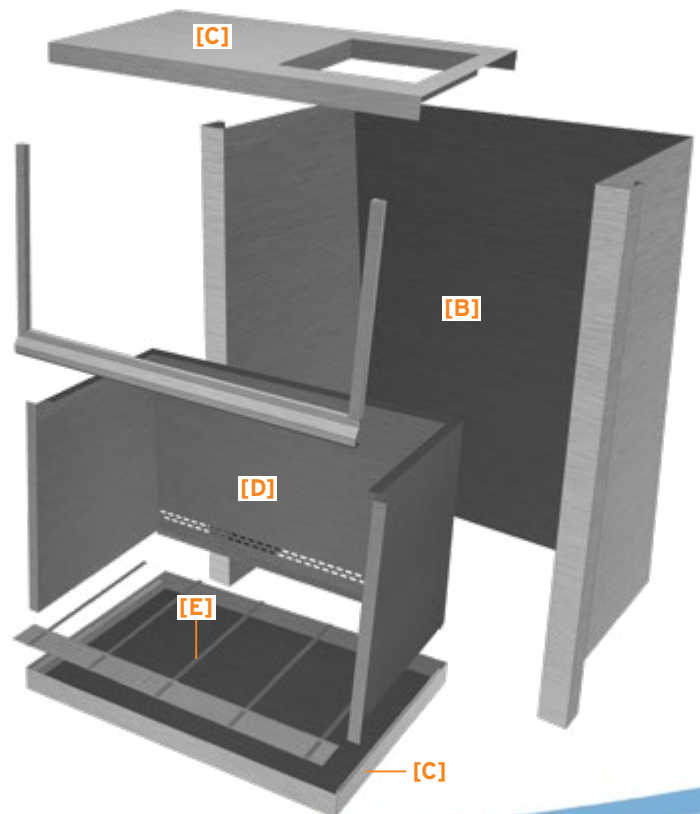
### Quality - Nothing is Built like a NuAire

The core of a NuAire biosafety cabinet is a pressure-tight monolithic shell [A] of 100% stainless steel designed to meet the design, performance, and cleanability standards of NSF/ANSI 49 and EN12469. This construction eliminates the leaks and structural weakness common to cabinets utilizing a multi-piece shell and relying on rivets, gaskets, and silicone to secure joints.

The NuAire design is a single piece of type 304 stainless steel. A stainless steel wrap [B] makes up the walls of the cabinet. Stainless steel sheets [C] are seam welded in place to make up the top and bottom of the cabinet. A smaller wrap [D] featuring covered interior corners is seam welded in place to make up the back and side walls of the cabinet. This improves the cabinet integrity by creating a double sidewall. Work tray supports [E] help minimize the vibration transfer from the shell of the cabinet to the work zone. The work tray and front grill supports are removable for full uninterrupted cleaning access to the cabinet base area.

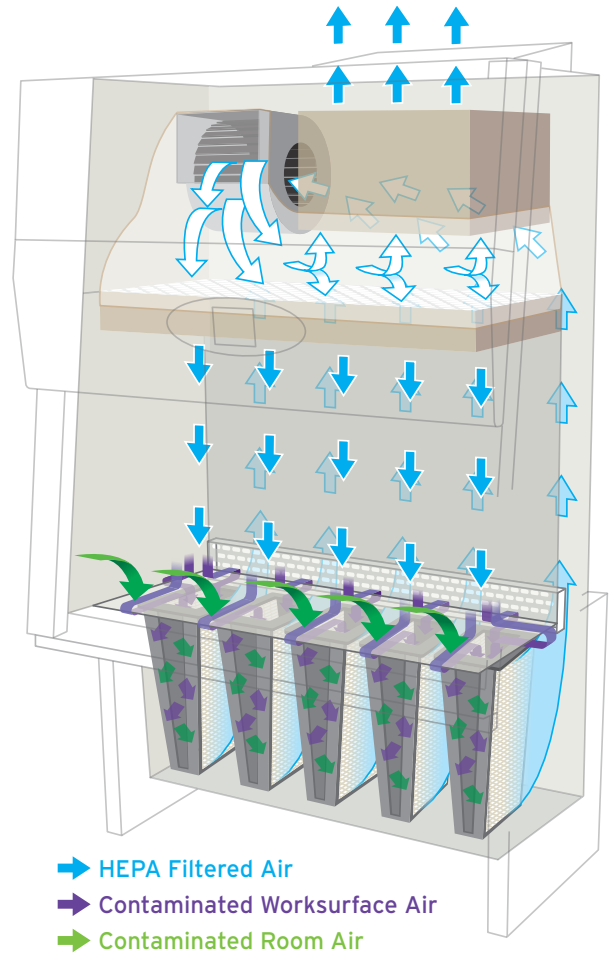


supports [E] help minimize the vibration transfer from the shell of the cabinet to the work zone. The work tray and front grill supports are removable for full uninterrupted cleaning access to the cabinet base area.



# NUAIRE NU-581

## CLASS II, TYPE A2 BIOSAFETY CABINET



The **LabGard® ES CYTO NU-581 Class II, Type A2 Biosafety Cabinet (BSC)** is designed as a console model featuring a series of HEPA filters mounted under the work surface to remove airborne biological or particulate chemical agents such as hazardous drug or API powders from internal airflow before it is recirculated. The HEPA prefilters may then be isolated to provide a safe change method for filter replacement.

### Specifications

Model	Nominal Width	Electrical*	Exterior Dimensions W x D x H / Inches (mm)	Internal Dimensions W x D x H / Inches (mm)	Net Weight
NU-581-400	4 ft. (1.2 m)	115 VAC / 60 Hz E: 230 VAC / 50-60 Hz	54 7/8 x 33 x 87 7/8 (1394 x 838 x 2232)	46 3/8 x 26 x 28 1/2 (1178 x 660 x 724)	700 lbs / 318 kg
NU-581-500	5 ft. (1.5 m)		66 7/8 x 33 x 87 7/8 (1699 x 838 x 2232)	58 3/8 x 26 x 28 1/2 (1483 x 660 x 724)	790 lbs / 358kg
NU-581-600	6 ft. (1.8 m)		78 7/8 x 33 x 87 7/8 (2003 x 838 x 2232)	70 3/8 x 26 x 28 1/2 (1788 x 660 x 724)	880 lbs / 399 kg

\*Specify model with appropriate letter suffix for electrical specifications. "NU-581-400E" for 230 VAC / 50 - 60 Hz

## Features

### Performance

Airflow 30% exhausted / 70% recirculated

Dynamic Air Barrier 105 fpm (0.53 m/s) Inflow

True Laminar Airflow 60 fpm (0.30 m/s) Down Flow

Filter Load Capacity 150% Plus

Filter Life ±10 Years

NSF/ANSI 49, EN12469, DIN12980

### Technology

TouchLink Electronic Control System

IntelliFlow airflow monitor and control

Nitecare night setback

Auto voltage compensation Protection

HEPEX Zero Leak Airflow System

ANSI/ASHRAE 110, Surrogate Powder, Biological Tested and Validated

ISO Class 5 Air

Airflow / Window Alarms with Ring Back Function

Security Password Protection

UL Listed, CE

### Efficiency

Ultra High Efficiency ECM Eon™ Motor with Precision Engineered Forward Curved Fan

Auto Filter Loading Compensation

Motor Speed Controller

Internal Exhaust Damper

nitecare Night Setback

### Construction

Monolithic 16/18 Gauge, Type 304 Stainless Steel Welded Pressure Tight Construction

Coved Interior Corners

Removable Control Center

Removable Stainless Steel Coved Work Tray

Recessed and Removable Front Intake Grill

Stainless Steel Spill Trough with Drain Valve

Vibration Reducing Work Surface Support System

External Non-Glare 100 fc (1076 lux) Lighting

Frame-less Sliding Viewing Window

Metal Diffuser Over Supply Filter

Permanent Positive Pressure Plenum with Quick Release Supply Filter Removal

Easy transport design

100% Front Service Friendly

### Ergonomics

Comfort 10° sloped front window

Large User-friendly Work zone with coved corners (20-3/4 inch (527mm) depth)

Low noise ±62 dba operation with Ambient Conditions of 53 dba

Maximum visibility into work zone 23.75-inches (603 mm) viewing area

Easy slide front window sash, 21-inches (533 mm) full open

Centrally located control panel

Attenuation Vibration Control

## Design Your Own (Standard Features in Blue)

### Nominal Width

4-foot (1.2 m)

5-foot (1.6 m)

6-foot (1.8 m)

### Access Opening

10" [254 mm] Manual Slide Access Opening (NSF/ANSI 49)

8" [203 mm] Manual Slide Access Opening (NSF/ANSI 49, EN12469)

8" [203 mm] Auto Slide Access Opening (NSF/ANSI 49, EN12469)

### Supply Filter

HEPA Filter 99.99% efficient @ 0.3 μ (NSF/ANSI 49)

HEPA H14 Filter 99.995% efficient @ 0.025 MPPS (EN12469)

### Exhaust Filter

HEPA Filter 99.99% efficient @ 0.3 μ (NSF/ANSI 49)

HEPA H14 Filter 99.995% efficient @ 0.025 MPPS (EN12469)

### Prefilter

Wedge HEPA Prefilters 99.97% efficient @ 0.3 μ (NSF/ANSI 49)

Wedge HEPA Prefilters 99.995% efficient @ 0.025 MPPS (EN12469)

### Power

Power Cord

Junction Box

### External Lighting

LED [90 - 120 fc (968 - 1291 lux)]

### Armrest (Ergonomic)

Heavy duty plastic

Metal

### Options

Ultraviolet Light

IV Bar with 3 Height Locations, 6 Hooks

NSF Approved Cord Pass Through (left/right sidewall)

Stainless Steel Window Edge Protector

Prop-up Work Tray

### Sidewalls

Stainless Steel

Glass

### Service Valves/Couplings

Left/Right Bottom

Left/Right Middle

Left/Right Top

### Plumbing

Soft Copper Pipe 3/8"

Black Pipe 3/8" (Gas Only)

Rigid Copper 1/2"

### Decorative Side Panels

None

No Plumbing

Plumbing Out Top

Plumbing Out Back

Plumbing Out Bottom

### Outlets (Quantity 2)

GFI Duplex Outlet (NEMA 5-15) (3 Amp Max)

GFI Duplex Outlet (NEMA 5-15) (5 Amp Max)

Duplex Outlet (NEMA 5-15) (15 Amp Max)

GFI Duplex Outlet (NEMA 5-15) (15 Amp Max)

Duplex Outlet (NEMA 5-20) (20 Amp Max)

GFI Duplex Outlet (NEMA 5-20) (20 Amp Max)

Duplex Outlet (NEMA 6-15) (15 Amp Max)

Type D - United Kingdom

Type E - France

Type F - Schuko

Type G - United Kingdom

Type H - Israel

Type I - Australia

Type J - Switzerland

Type K - Netherlands

Type M - South Africa

### Seismic Brackets

Rear Mount

Floor Mount

### Integral Base Stand

Automatic Adjustable Base with Leg Levelers

Telescoping Base Stand with Leg Levelers





# COMPLETE YOUR LABORATORY

## NUAIRE PRODUCTS

NuAire offers a variety of Laboratory Equipment to meet the needs of the research, vivarium, pharmacy, environmental laboratory and more. Join the NuAire family and complete your laboratory with complementary NuAire Quality products.



**LABGARD**

Biosafety Cabinets



**IN-VITROCELL<sup>ES</sup>**

CO<sub>2</sub> Incubators



**AIREGARD<sup>ES</sup>**

Laminar Airflow Workstations



**ALLERGARD<sup>ES</sup>**

Animal Laboratory Products



**PHARMAGARD<sup>ES</sup>**

Compounding Isolators



Polypropylene Fume Hoods and Casework



**BLIZZARD**

Ultralow Freezers



**NUMIND**

Centrifuges



Custom Solutions



**Koki**  
CENTRIFUGES

## SALES AND SERVICE LIKE NO OTHER

**Delivering product to the customer that is cost effective, exceeds their requirements, delivers product on-time, and increases productivity and profitability.**

In every NuAire product you'll find brilliant but practical design, keen attention to detail in every phase of the fabrication and assembly process, thoroughly tested, outstanding value, and dependable service. These are the foundation for NuAire's international reputation, and practical reasons why NuAire is universally recognized as the finest. NuAire's Quality Policy to Satisfy Customers, Comply with Quality System Requirements and Continually Improve.

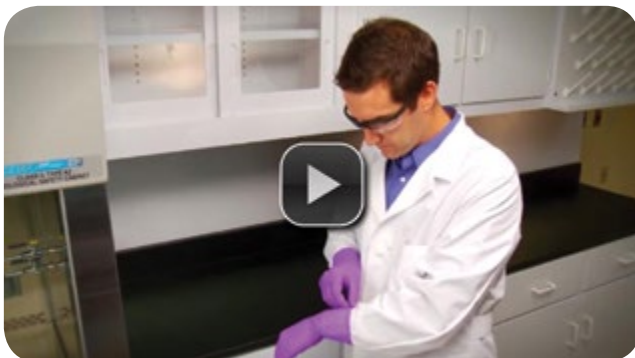
### Sales and Service Like No Other

NuAire employs a network of knowledgeable sales and service individuals some of which have been selling and servicing NuAire Laboratory Products since our inception in 1971.

### Working Safely Video Series

Learn how to work safely in your NuAire Biological Safety Cabinet with this 7 Chapter online video series.

Our Sales Representatives are located throughout the globe providing you with a local individual who can assist product selection, pricing, installation, training, and service throughout the life of your product. Once you buy a NuAire you're a part of our family and we'll work hard to satisfy your needs. NuAire offers service-training classes and individualize assistance to service professionals in the laboratory community. These NuAire certified companies are located throughout the world allowing NuAire to provide service and assistance to the farthest corners of the earth. Have the option to select from multiple service vendors in your area to find a company that fits your needs.



### Contracts, GPO's and Many More!

NuAire has a variety of Contracts set up through Group Purchasing Organizations, Government Associations, Health Systems, Universities and many more.



ISO 9001:2015 Certificate

### Pricing and Ordering:

For more information, to receive a price quote, or to order, visit NuAire's website or call:

[NuAire.com](http://NuAire.com)

763 553-1270

**LABGUARD**

BIOSAFETY CABINETS



The Safer Choice for Your Laboratory

763-553-1270 | [NUAIRE.COM](http://NUAIRE.COM)