

NuAire® Pharmacy Equipment

Primary Engineering Controls



Ensure the Accuracy and Sterility of Compounded Pharmacy Products



Best Product. Best Performance. Best Protection.

Ensure the Accuracy and Sterility of Compounded Pharmacy Products

New Standards and Guidelines

The United States Pharmacopeia [USP] published USP Chapter <797>, Pharmaceutical Compounding Sterile Preparations. This standard details regulations for almost every aspect of operations for compounding pharmacy prepared products. These standards pertain to "Quality Assurance Programs", "Quality Assurance Practices", "Facilities and Equipment", and "Environmental Control and Monitoring Programs".

The National Institute for Occupational Safety and Health [NIOSH] published an "Alert" for Preventing Occupational Exposures to Antineoplastic and other Hazardous Drugs in Health Care Settings.

This Document Contains guidelines recommending procedures for the preparations and safe handling of hazardous drugs.

Best Sources for Sterile Compounding Information:

USP Chapter 797:
www.usp.org

American Society of Health-System Pharmacists:
www.ashp.org/sterilecpd

NIOSH Alert:
www.cdc.gov/niosh/docs/2004-165



Primary Engineering Control Solutions

Aseptic Compounding of Non-Hazardous Drugs

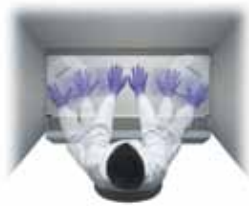
PharmaGard™ NU-PR797	Compounding Aseptic Isolator (CAI)
AireGard™ NU-201	Table Top Horizontal Clean Airflow Workstation
AireGard™ NU-301	Console Horizontal Clean Airflow Workstation
AireGard™ NU-126	Table Top Vertical Clean Airflow Workstation

Compounding Customized Prescription Medication

LabGard® NU-813	Compounding Enclosure
LabGard® NU-819	Vented Workstation

Aseptic Compounding of Hazardous/Chemotherapy Drugs

LabGard® NU-425	Class II Type A2 Pharmacy Safety Cabinet
LabGard® NU-430	Class II Type B2 Total Exhaust Pharmacy Safety Cabinet
PharmaGard™ NU-NR797	Compounding Aseptic Containment Isolator Recirculating (CACI)
PharmaGard™ NU-NTE797	Compounding Aseptic Containment Isolator Total Exhaust (CACI)



Ergonomic Features

NuAire's® design team engineers each product with the end user in mind. A properly designed cabinet or isolator will operate in a safer and more efficient manner. Such features include: a larger viewing window to improve sight lines while reducing glare and reflections, large oval glove ports

in the viewing window provide forearm support and are positioned to provide easy access to all parts of the work surface, a two-piece sleeve/glove combination helps provide a greater range of motion and the interchange compartment pass-through door is positioned for easy access.



Aseptic Techniques

Engineering controls, like the isolator, are only a tool. Properly balanced isolators will do an excellent job of controlling airborne contamination. However, the Isolator alone will not eliminate contact transmission of contamination. Standard pharmacy contamination control procedures [SOPs] and basic aseptic techniques are necessary to obtain maximum benefits from the Isolator.

NU-797

Compounding Aseptic Isolators

Transfer Compartment and Pass-Through

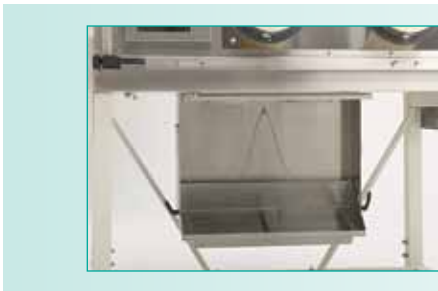
The Operator places items into the main work chamber through the transfer compartment. The pass-through door can be opened from within the main compartment only, and items can be moved on the stainless steel sliding tray.



Waste-Disposal System

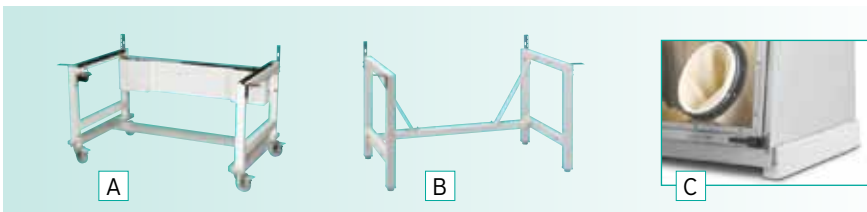
The PharmaGard™ Compounding Aseptic Isolator and Containment Isolator feature a space saving in-work-zone waste disposal system that is accessible from within the work area.

Contaminated waste or used sharps can be dropped through a stainless steel chute into standard containers without compromising the containment of the work area.



Your Choice of Isolator Setup

- A) Completely mobile and adjustable with a motorized castered base stand
- B) Mounted on a telescoping base support stand
- C) Placed on an existing counter top with optional cabinet-top stand





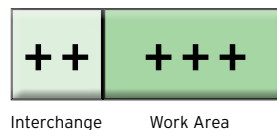
PharmaGard™ PR Compounding Aseptic Isolator

Levels of Protection

The PharmaGard™ PR creates a positive pressure clean air [ISO Class 5] controlled environment specifically for aseptic compounding of *non-hazardous drugs*. The HEPA filtered work area maintains a positive air pressure relative to the interchange compartment, which operates at a positive air pressure relative to the surrounding room. These two levels of protection minimize the possibility of contamination migrating into the work zone.

+

Buffer Room



Features

Airflow Control System

Motor Speed Controls

Supply and exhaust blower speeds are regulated by independent solid-state motor voltage regulators

Supply HEPA Filter

Full size, covers both work zone and interchange, separatorless HEPA 99.99% @ 0.3 micron efficiency

Intake Filter

Separatorless 80% efficiency.

Utility Connections/Installation

Electrical Requirements

115 Vac, 60 Hz, 1 Phase, 8 amp maximum. Supplied with Hospital Grade power cord/plug. Interior duplex outlet provided (3 amp max. load). Optional motorized base stand is provided with separate power cord/plug. Requires 115 Vac, 60 Hz, 1 Phase, 3 amps.

Standard Features:

- Full Size Supply HEPA Filter
- External Fluorescent Lighting
- Front Filter Servicing
- Hinged Slanted Window
- 3/8" Thick Scratch-Resistant Polycarbonate Window
- One (1) IV Bar with two (2) Positions and six (6) Hooks
- Large Slanted Oval Glove Ports
- Flexible Two-Piece Nitrile® Sleeve/Glove
- Solid-State Motor Voltage Regulator

Optional Features:

- Motorized Adjustable Base Stand w/Casters or Leg Levelers
- Fixed Telescoping Base Stand w/Leg Levelers
- Bench Mount
- Sharps/Waste Disposal Systems
- Cord Pass-Through
- Pull Out Accessory Tray
- Pull-Out Shelf **(A)**
- Custom Configurations Available **(B)**



Please note that performance specifications vary for models and types. Please consult NuAire® for exact performance specifications.

Specifications

Dimensions (Height x Width x Depth)

NU-PR797-400

Work Zone Interior Dimensions:
27 3/8" x 35 1/4" x 23 1/4"

Interchange Dimensions:
27 3/8" x 14 1/8" x 24"

Exterior Dimensions:
51 1/2" x 50" x 32 1/2"

Min. Exterior Dimensions w/
optional Motorized Base Stand:
78" x 50" x 32 1/2"

Interior Transfer Door
Dimensions:
18 1/2" x 8 1/2"

Exterior Transfer Door
Dimensions:
18" x 9 1/4"

NU-PR797-600

Work Zone Interior Dimensions:
27 3/8" x 59 1/4" x 23 1/4"

Interchange Dimensions:
27 3/8" x 14 1/8" x 24"

Exterior Dimensions: *
51 1/2" x 74" x 32 1/2"

Min. Exterior Dimensions w/
optional Motorized Base Stand:
78" x 74" x 32 1/2"

Interior Transfer Door
Dimensions:
18 1/2" x 8 1/2"

Exterior Transfer Door
Dimensions:
18" x 9 1/4"

Heat Rejected

NU-PR797-400

539 BTUs / hour

NU-PR797-600

880 BTUs / hour

Weight

NU-PR797-400

Net Weight:
425 lbs

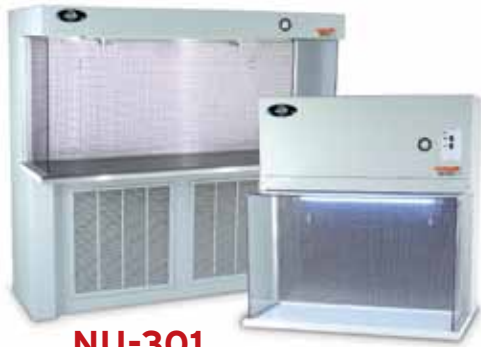
Net Weight w/Optional
Motorized Base Stand:
575 lbs

NU-PR797-600

Net Weight:
575 lbs

Net Weight w/Optional
Motorized Base Stand:
735 lbs





NU-301

NU-201

AireGard™ 201/301 Horizontal Airflow Workstation

The AireGard™ NU-201 Horizontal Laminar Airflow Table Top Workstation and NU-301 Horizontal Laminar Airflow Console Workstation provides a HEPA filtered clean work area that is ideal for operations requiring a particulate and bacteria free, clean air environment.

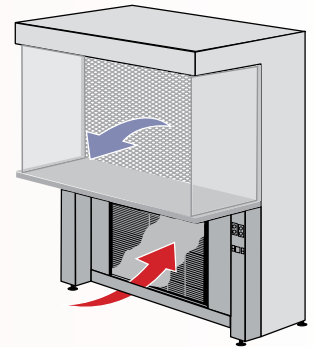
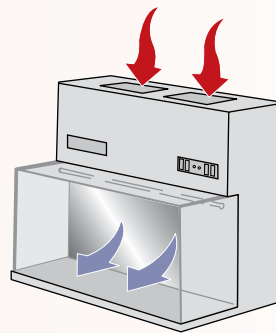
Both the NU-201 and NU-301 feature true laminar airflow, a large 99.99% efficient HEPA filter, disposable fiberglass pre-filters, high-capacity motor/blower, adjustable motor speed controller, Minihelic® pressure gauge, fluorescent lighting, and the HEPEX™ Zero Leak Airflow system.

Standard Features:

- HEPEX™ Zero Leak Airflow System
- Clear Top/Side Polycarbonate Panels
- Textured Power Coat Urethane Finish
- Smooth White Formica™ Work Surface
- Front Maintenance
- Fluorescent Light
- Protective Fiber Grill
- Fiberglass Disposable Prefilter
- Full Instrument Panel
- Minihelic Gauge
- 115 VAC, 60 Hz, Single Phase
- 8 ft., 3-wire Grounded Flexible Power

Accessories and Options:

- Ultraviolet Light
- Outlet
- Service Valves
- Ground Fault Interrupter (GFI)
- IV Bar
- Base Support Stand for NU-201
- Footrest
- Storage Trays
- Stainless Steel Work Surface
- Stainless Steel Side Walls
- Custom Configurations



■ HEPA Filtered Clean Air
■ Room Air



AireGard™ 126 Vertical Airflow Clean Workstation

The AireGard™ NU-126 Vertical Laminar Airflow Workstation is designed to provide the ideal particulate and bacteria-free clean-air environment needed for pharmaceutical procedures. The exclusive design innovations built into the NU-126 will provide exceptional performance in the most demanding environments.

It has a unique configuration that offers the benefits of vertical airflow as the air moves

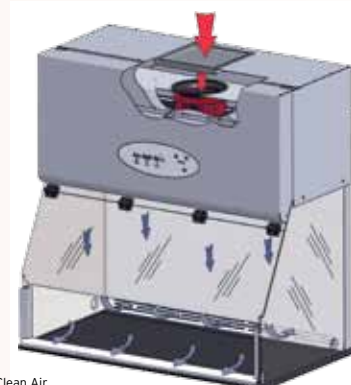
around the objects on to the work surface while allowing the horizontal airflow to move through the work access opening acting as a barrier against contamination. The slated viewing window not only provides an excellent view of the work in process but also substantially protects the operator from direct contact with contaminants generated within the work area.

Standard Features:

- 99.99% HEPA filtered air
- 8 ½" access opening
- Vertical Airflow - Product Protection
- 90 FPM [.46m/s] Downflow Clean Air Velocity
- Clear Polycarbonate Viewing Window
- Clear Acrylic Side Walls
- Hinged View Screen with AutoLift
- Two Service Ports
- Smooth White Formica™ Work Surface
- Fiberglass Disposable Prefilter
- Full Instrument Panel
- Minihelic Gauge
- Fluorescent Lighting

Accessories and Options:

- Service Valves for Gas/Air/Vac
- Stainless Steel Work Surface
- IV Bar with six (6) hooks
- Ultraviolet Light
- 30" [762 mm] Base Support Stand
- 36" [914 mm] Base Support Stand
- Front Closure Panel
- Custom Configurations



■ HEPA Filtered Clean Air
■ Room Air





LabGuard® 813 Compounding Enclosure

The LabGuard® NU-813 is a Class I Biological Safety Cabinet that is an exceptional value and offers personnel protection for work in process where other cabinets are not appropriate choices for size or cost reasons.

The NU-813 is a generation of exceptionally quiet enclosures that can be used with a micro-computer based balance. The open front allows room air to flow in past the operator and over the

work in process. The small cabinet size means it can be strategically placed for convenient handling of aerosols and particulates of low to moderate risk assessment.

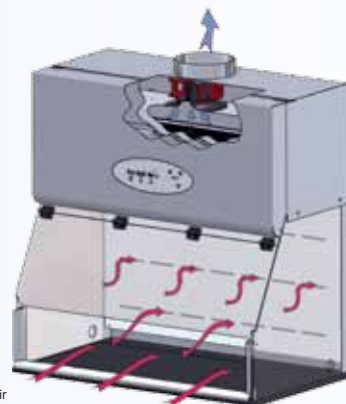
The NU-813 automatically exhausts filtered air back into the room, or can be coupled from the exhaust collar to the building exhaust system, making the cabinet suitable for work with compounding powders.

Standard Features:

- Self Exhausting
- Fluorescent Light
- Clear Acrylic Side Walls
- White Acrylic Back Panel
- Coved Epoxy Black Base
- Hinged Viewing Window
- 99.99% Exhaust HEPA Filter
- Two Service Ports

Accessories and Options:

- Base Support Stands
- Dual Cabinet Connecting Kit
- Purafil® Filter [in lieu of HEPA]
- Charcoal Filter [in lieu of HEPA]
- Low Airflow Alarm



■ HEPA Filtered Clean Air
■ Room Air

LabGuard® 819 Vented Workstation

The LabGuard® NU-819 is a Class I Vented Enclosure designed to contain and remove contaminants from the work surface with the aid of an external exhaust system. The NU-819 provides personnel protection for the safe handling of aerosols and particulate of low to moderate risk assessment.

The NU-819 has a partially enclosed workspace with clear acrylic sidewalls and

front view screen. An air barrier inflow velocity set between 75 and 100 FPM provides optimum personnel protection. The work surface is constructed using Dupont Corian® and incorporates an ergonomically designed work access air foil to maximize comfort and improve air barrier protection.



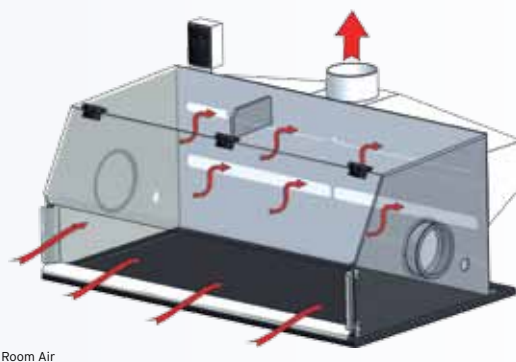
Standard Features:

- Clear Acrylic Sidewalls
- Clear Acrylic Hinged Viewing Window
- White Acrylic Vented Back Panel
- Dupont Corian® Work Surface

Accessories and Options:

- Low Flow Alarm
- Base Support Stand
- Exhaust HEPA Filter Blower Module [A]
- Flexible Exhaust Duct [B]

Standard Sizes	NU-819-300	NU-819-400
Width	35 ¾" [908 mm]	47 ¾" [1213 mm]
Depth	29" [737 mm]	29" [737 mm]
Height	22 ½" [572 mm]	22 ½" [572 mm]

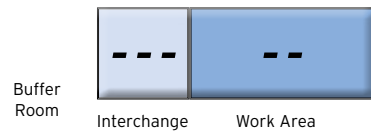


■ Room Air

PharmaGard™ NR Compounding Aseptic Containment Isolator

Levels of Protection

The PharmaGard™ NR creates a **Negative Pressure** clean air [ISO Class 5] controlled environment for the aseptic compounding of *hazardous/chemotherapy drugs*. The HEPA filtered work area maintains negative air pressure relative to the interchange compartment, which operates at a negative air pressure relative to the surrounding room. These levels of protection minimize the possibility of hazardous materials migrating from the work area into the surrounding room as well as minimizing the possibility of contamination migrating into the work zone. The cabinet's airflow is recirculated (optional exhaust) to minimize cross-contamination of low to moderate risk biologicals in the absence of volatile toxic chemicals.



Features

Airflow Control System

Motor Speed Controls

Supply and exhaust blower speeds are regulated by independent solid-state motor voltage regulators

Supply HEPA Filter

Full size, covers both work zone and interchange, separatorless HEPA 99.99% @ 0.3 micron efficiency

Intake Filter

Separatorless 80% efficiency.

Utility Connections/Installation

Electrical Requirements

115 Vac, 60 Hz, 1 Phase, 8 amp maximum. Supplied with Hospital Grade power cord/plug. Interior duplex outlet provided (3 amp max. load). Optional motorized base stand is provided with separate power cord/plug. Requires 115 Vac, 60 Hz, 1 Phase, 3 amps.

Standard Features:

- Full Size Supply HEPA Filter
- External Fluorescent Lighting
- Front Filter Servicing
- Hinged Slanted Window
- 3/8" Thick Scratch-Resistant Polycarbonate Window
- One (1) IV Bar with two (2) Positions and six (6) Hooks
- Large Slanted Oval Glove Ports
- Flexible Two-Piece Nitrile® Sleeve/Glove
- Solid-State Motor Voltage Regulator
- Interchange Door Interlock
- Removable Work Tray with Holder
- Exhaust HEPA Filter
- Separatorless HEPA 99.99% @ 0.3 Micron Efficiency

Optional Features:

- Canopy Transition
- PharmaGard™ Digital Monitor
- Motorized Adjustable Base Stand w/Casters or Leg Levelers
- Fixed Telescoping Base Stand w/Leg Levelers
- Bench Mount
- Sharps/Waste Disposal Systems
- Cord Pass-Through
- Pull Out Accessory Tray
- Pull-Out Shelf
- Custom Configurations Available



Please note that performance specifications vary for models and types. Please consult NuAire® for exact performance specifications.

Specifications

Dimensions (Height x Width x Depth)

NU-NR797-400

Work Zone Interior Dimensions:

27 3/8" x 35 1/4" x 23 1/4"

Interchange Dimensions:

27 3/8" x 14 1/8" x 24"

Exterior Dimensions:

51 3/4" x 50" x 32 1/2"

Min. Exterior Dimensions w/ optional Motorized Base Stand:

81 3/4" x 50" x 32 1/2"

Interior Transfer Door

Dimensions:

14" x 8 3/4"

Exterior Transfer Door

Dimensions:

18" x 8 1/2"

NU-NR797-600

Work Zone Interior Dimensions:

27 3/8" x 59 1/4" x 23 1/4"

Interchange Dimensions:

27 3/8" x 14 1/8" x 24"

Exterior Dimensions:

51 3/4" x 74" x 32 1/2"

Min. Exterior Dimensions w/ optional Motorized Base Stand:

81 3/4" x 74" x 32 1/2"

Interior Transfer Door

Dimensions:

14" x 8 3/4"

Exterior Transfer Door

Dimensions:

18" x 8 1/2"

Exhaust Requirements:

NuAire strongly recommends that NIOSH, OSHA, and ASHP that the isolator be exhausted using a canopy transitions

NU-NR797-400

65 cfm @ 0.1 w.g.

NU-NR797-600

75 cfm @ 0.1 w.g.

Heat Rejected

NU-NR797-400

795 BTUs / hour

NU-NR797-600

1136 BTUs / hour

Weight

NU-NR797-400

Net Weight:

440 lbs

Net Weight w/Optional

Motorized Base Stand:

590 lbs

NU-NR797-600

Net Weight:

590 lbs

Net Weight w/Optional

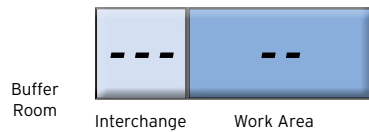
Motorized Base Stand:

750 lbs

PharmaGard™ NTE Compounding Aseptic Containment Isolator

Levels of Protection

The PharmaGard™ NTE creates a **Negative pressure** clean air [ISO Class 5] controlled environment for the aseptic compounding of **hazardous/chemotherapy drugs**. The HEPA filtered work area maintains negative air pressure relative to the interchange compartment, which operates at a negative air pressure relative to the surrounding room. These levels of protection minimize the possibility of hazardous materials migrating from the work area into the surrounding room as well as minimizing the possibility of contamination migrating into the work zone. All down flow and inflow air is exhausted through a HEPA filter without recirculation within the cabinet. All contaminated ducts and plenums are maintained at negative pressure.



Features

Airflow Control System

Motor Speed Controls

Supply and exhaust blower speeds are regulated by independent solid-state motor voltage regulators

Supply HEPA Filter

Full size, covers both work zone and interchange, separatorless HEPA 99.99% @ 0.3 micron efficiency

Intake Filter

Separatorless 80% efficiency.

Utility Connections/Installation

Electrical Requirements

115 Vac, 60 Hz, 1 Phase, 8 amp maximum. Supplied with Hospital Grade power cord/plug. Interior duplex outlet provided (3 amp max. load). Optional motorized base stand is provided with separate power cord/plug. Requires 115 Vac, 60 Hz, 1 Phase, 3 amps.

Standard Features:

- Full Size Supply HEPA Filter
- External Fluorescent Lighting
- Front Filter Servicing
- Hinged Slanted Window
- ¾" Thick Scratch-Resistant Polycarbonate Window
- One (1) IV Bar with two (2) Positions and six (6) Hooks
- Large Slanted Oval Glove Ports
- Flexible Two-Piece Nitrile® Sleeve/Glove
- Solid-State Motor Voltage Regulator
- Interchange Door Interlock
- Removable Work Tray with Holder
- PharmaGard™ Digital Monitor
- Exhaust Digital Monitor
- Bag in / Bag out Exhaust HEPA Filter

Optional Features:

- Gastight Damper
- Flex Duct Kits
- Motorized Adjustable Base Stand w/Casters or Leg Levelers
- Fixed Telescoping Base Stand w/Leg Levelers
- Bench Mount
- Sharps/Waste Disposal Systems
- Cord Pass-Through
- Pull Out Accessory Tray
- Pull-Out Shelf
- Custom Configurations Available



Please note that performance specifications vary for models and types. Please consult NuAire® for exact performance specifications.

Specifications

Dimensions (Height x Width x Depth)

NU-NTE797-400

Work Zone Interior Dimensions:

27 ¾" x 35 ¼" x 23 ¼"

Interchange Dimensions:

27 ¾" x 14 ⅛" x 24"

Exterior Dimensions:

59 ½" x 50" x 32 ½"

Min. Exterior Dimensions w/ optional Motorized Base Stand:

92 ½" x 50" x 32 ½"

Interior Transfer Door

Dimensions:

18" x 8 ½"

Exterior Transfer Door

Dimensions:

14" x 8 ¾"

NU-NTE797-600

Work Zone Interior Dimensions:

27 ¾" x 59 ¼" x 23 ¼"

Interchange Dimensions:

27 ¾" x 14 ⅛" x 24"

Exterior Dimensions: *

59 ½" x 74" x 32 ½"

Min. Exterior Dimensions w/ optional Motorized Base Stand:

92 ½" x 74" x 32 ½"

Interior Transfer Door

Dimensions:

18" x 8 ½"

Exterior Transfer Door

Dimensions:

14" x 8 ¾"

Heat Rejected

NU-NTE797-400

539 BTUs / hour

NU-NTE797-600

880 BTUs / hour

Weight

NU-NTE797-400

Net Weight:

465 lbs

Net Weight w/Optional

Motorized Base Stand:

615 lbs

NU-NTE797-600

Net Weight:

615 lbs

Net Weight w/Optional

Motorized Base Stand:

775 lbs

Exhaust Requirements

NU-NTE797-400

425 cfm @ 2.0" w.g.

NU-NTE797-600

550 cfm @ 2.0" w.g.

Controlled Environments for Optimum Protection



NU-437



NU-440



NU-425



NU-427



NU-430 / 435

Model	Type	Exhausted Air vs. Recirculated Air	Available Sizes (nominal)	Safety	Performance Specifications*
NU-425	A2	30% / 70%	2, 3, 4, 5, 6 ft.	Product protection Personnel protection Environmental protection	NSF / ANSI 49 EN12469 UL/UL-C Listed
NU-437	A2	30% / 70%	3, 4, 6 ft.		
NU-440	A2	30% / 70%	3, 4, 6 ft.		
NU-427	B1	70% / 30%	4, 6 ft.		
NU-430 / 435	B2	100% / 0%	3, 4, 6 ft.		

* Please note that performance specifications and listings vary for models and types. Please consult NuAire for exact performance specifications and listings. Not all certifications apply to all products.



Improved Principles of Biological Safety Cabinet Design

True Laminar Airflow [A]

Unidirectional airflow moving along parallel flow lines at a constant velocity minimizes air turbulence within the work zone.

HEPEX™ Zero Leak Airflow System [B]

The HEPEX™ Zero Leak Airflow System eliminates the possibility of cabinet and gasket leaks.

Greater Volume of Air Creates a Stronger Air Barrier [C]

Frequent Air exchanges within the Class II Biological Safety Cabinet improves personnel protection.

Larger, Long Lasting HEPA Filters [D]

NuAire utilizes HEPA filters that are typically 25% larger than those in competitive products.

High Efficiency Motor/Blower System Extends HEPA Filter Life [E]

As the HEPA filter loads the motor/blower system automatically compensates to assure performance and extended filter life.

Single Piece Stainless Steel Construction

Centrally Located Control Center

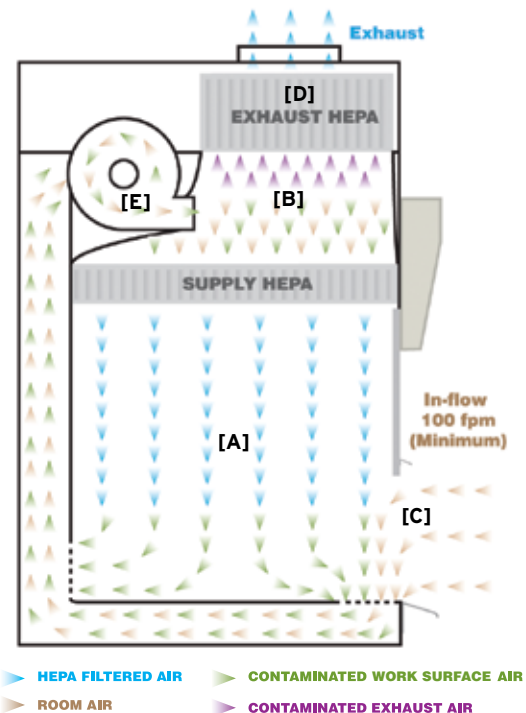
State-of-the-Art Electronic Safety System

Improved Quality, Reduced Noise

Biological Tolerance Testing Assures Optimal Performance

Class II, Type A2

Air In-flow 70% Recirculated, 30% Exhausted



LabGard® Class II Type A2 Biological Safety Cabinet

Levels of Protection

The LabGard® Class II Type A2 Biological Safety Cabinet uses true laminar airflow to create a clean air [ISO Class 5] controlled environment for the aseptic compounding of *hazardous/chemotherapy drugs*. Each Cabinet can be either exhausted back into the room or connected to a facility HVAC system. The cabinet's airflow is 30% exhausted / 70% recirculated to minimize cross-contamination of low to moderate risk biologicals in the absence of volatile toxic chemicals.



Specifications

Model	Size	Electrical* (All Sizes)	Interior Dimensions (W x H x D) In. [mm]	Exterior Dimensions (W x H x D) In. [mm]	Weight
NU-425-300	3 ft.	115 VAC / 60 Hz	34% x 28½ x 23½ [873 x 724 x 597]	41% x 63 x 32% [1057 x 1600 x 835]	475 lbs. / 215 kg.
NU-425-400	4 ft.	D: 100 VAC / 50-60 Hz	46% x 28½ x 23½ [1178 x 724 x 597]	53% x 60 x 32% [1362 x 1600 x 835]	500 lbs. / 227 kg.
NU-425-500	5 ft.	E: 230 VAC / 50 Hz	58% x 28½ x 23½ [1483 x 724 x 597]	65% x 63 x 32% [1667 x 1600 x 835]	600 lbs. / 273 kg.
NU-425-600	6 ft.	G: 220 VAC / 60 Hz	70% x 28½ x 23½ [1788 x 724 x 597]	77% x 63 x 32% [1972 x 1600 x 835]	680 lbs. / 308 kg.
NU-437-300	3 ft.	115 VAC / 60 Hz	34% x 28½ x 23½ [873 x 724 x 597]	41% x 63 x 32% [1057 x 1600 x 835]	475 lbs. / 215 kg.
NU-437-400	4 ft.	D: 100 VAC / 50-60 Hz	46% x 28½ x 23½ [1178 x 724 x 597]	53% x 60 x 32% [1362 x 1600 x 835]	500 lbs. / 227 kg.
NU-437-500	5 ft.	E: 230 VAC / 50 Hz	58% x 28½ x 23½ [1483 x 724 x 597]	65% x 63 x 32% [1667 x 1600 x 835]	600 lbs. / 273 kg.
NU-437-600	6 ft.	G: 220 VAC / 60 Hz	70% x 28½ x 23½ [1788 x 724 x 597]	77% x 63 x 32% [1972 x 1600 x 835]	680 lbs. / 308 kg.
NU-440-300	3 ft.	115 VAC / 60 Hz	34% x 28½ x 23½ [873 x 724 x 597]	41% x 63 x 32% [1057 x 1600 x 835]	475 lbs. / 215 kg.
NU-440-400	4 ft.	D: 100 VAC / 50-60 Hz	46% x 28½ x 23½ [1178 x 724 x 597]	53% x 60 x 32% [1362 x 1600 x 835]	500 lbs. / 227 kg.
NU-440-500	5 ft.	E: 230 VAC / 50 Hz	58% x 28½ x 23½ [1483 x 724 x 597]	65% x 63 x 32% [1667 x 1600 x 835]	600 lbs. / 273 kg.
NU-440-600	6 ft.	G: 220 VAC / 60 Hz	70% x 28½ x 23½ [1788 x 724 x 597]	77% x 63 x 32% [1972 x 1600 x 835]	680 lbs. / 308 kg.

*Specify model with appropriate letter suffix for electrical specifications. "NU-425-300E" for 230 VAC / 50 Hz

Standard Features

- HEPEX™ Zero Leak Airflow System
- Large HEPA Filters 99.99% @ 0.3 Microns Efficiency Rated
- External Fluorescent Lighting
- Front Filter Removal
- Sliding Tempered Glass View Screen
- Removable Work Tray
- Metal Diffuser over Supply Filter
- Removable Control Center
- Spill Trough with Drain Valve
- Minihelic Gauge (NU-425)
- FLOWGARD™ System (NU-437)
- TOUCHLINK™ System (NU-440)
- Permanent Plenum with Quick Release Supply Filter (NU-437, NU-440)
- 10" (254 mm) Access Opening for 4, 5, 6 ft. Models
- 8" (203 mm) Access Opening for 3 ft. Models

Armrest

- Two Duplex Outlets (Back Wall) for 4, 5, 6 ft. Models
- One Duplex Outlet (Back Wall) for 3 ft. Models
- One Gas Service Valve (Right Sidewall)

Optional Features and Accessories

- Germicidal UV Lamp
- Ground Fault Interrupter
- IV Bar with Six Hooks
- Base Support Stand
- Base Storage Cabinet
- Adjustable Footrest
- Hinged Viewing Window
- Microscope Viewing Window
- Additional Service Valves for Gas, Air, or Vac
- Exhaust Transitions Thimble to Gastight
- UPLA Filters 99.999% @ 0.12 Microns

Metal Framed HEPA Filters

- Storage Pull-Out Trays
- Permanent Plenum with Quick Release Supply Filter (NU-425)
- Remote Service Valves
- Additional Duplex Outlets
- Exhaust Alarm Systems
- Adjustable Control for Support Stand or Storage Cabinet
- Decorative Side Panels
- 8" (203 mm) Access Opening
- Sinks with Hot / Cold or DI Water Faucets
- Heated Work Surface
- Custom Configurations





LabGard® Class II Type B2 Biological Safety Cabinet

Levels of Protection

The LabGard® Class II Type B2 Biological Safety Cabinet uses true laminar airflow to create a clean air [ISO Class 5] controlled environment for the aseptic compounding of *hazardous/chemotherapy drugs*. Each Cabinet features downflow air drawn from within the laboratory or outside air. No downflow air is drawn from the cabinet exhaust air. All downflow and inflow air is exhausted through a HEPA filter without recirculation within the cabinet. All contaminated ducts and plenums are maintained at negative pressure.

Understanding the NU-430/435:
A guide for Planning Installation Operation



Specifications

Model	Size (Nominal)	Electrical* (All Sizes)	Interior Dimensions (W x H x D) In. [mm]	Exterior Dimensions (W x H x D) In. [mm]	Weight
NU-430-300	3 ft.	115 VAC / 60 Hz	30% x 25½ x 23½ [772 x 648 x 597]	37% x 63 x 32% [956 x 1600 x 835]	460 lbs. / 231 kg.
NU-430-400	4 ft.	E: 230 VAC / 50 Hz	46% x 25½ x 23½ [1178 x 648 x 597]	53% x 60 x 32% [1362 x 1600 x 835]	520 lbs. / 236 kg.
NU-435-400	4 ft.	G: 220 VAC / 60 Hz	46% x 25½ x 23½ [1178 x 648 x 597]	53% x 63 x 32% [1362 x 1600 x 835]	520 lbs. / 236 kg.
NU-430-600	6 ft.		70% x 25½ x 23½ [1788 x 648 x 597]	77% x 63 x 32% [1972 x 1600 x 835]	710 lbs. / 322 kg.
NU-435-600	6 ft.		70% x 25½ x 23½ [1788 x 648 x 597]	77% x 63 x 32% [1972 x 1600 x 835]	710 lbs. / 322 kg.

*Specify model with appropriate letter suffix for electrical specifications. "NU-425-300E" for 230 VAC / 50 Hz

Standard Features

HEPEX™ Zero Leak Airflow System

TOUCHLINK™ System

Large HEPA Filters 99.99% Efficiency Rating

External Fluorescent Lighting

Front Filter Removal

Sliding Tempered Glass View Screen

Removable Work Tray

Metal Diffuser over Supply Filter

Removable Control Center

Spill Trough with Drain Valve

Armrest

Two Service Valves (Right Sidewall on NU-430)

One Duplex Outlet (Left Front)

Two Remote Service Valves (Right Sidewall on NU-435)

Optional Features and Accessories

Germicidal UV Lamp (NU-430)

Ground Fault Interrupter

IV Bar with Six Hooks

Base Support Stand

Base Storage Cabinet

Adjustable Footrest

Hinged Viewing Window

Microscope Viewing Window

Additional Service Vales for Gas, Air, Vac

UPLA Filters 99.999% @ 0.12 Microns

Metal Framed HEPA Filters

Bag In / Bag Out Exhaust HEPA Filters

Storage Pull-Out Trays

Remote Service Valves

Additional Duplex Outlets

Alarm Systems

Adjustable Control for Support Stand or Storage Cabinet

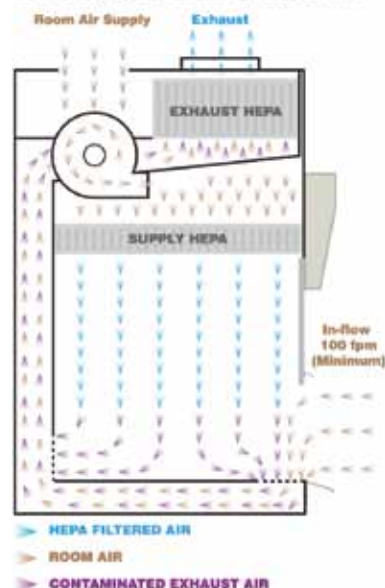
Decorative Side Panels

Sinks with Hot / Cold or DI Water

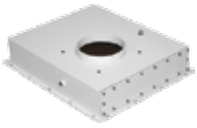
Faucets

Custom Configurations

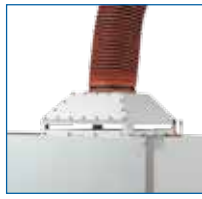
Class II, Type B2 Air In-flow 100% Exhausted



Options and Accessories



Gas Tight / Low Profile Exhaust Transition



Canopy Exhaust Transition and Flex Duct



Butterfly Valves



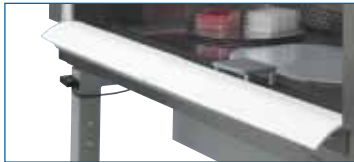
8" (203 mm) to 10" (254 mm) Round Transition



Neoprene Connection Kit



Exhaust Airflow Monitors



Foam Armrest Pad



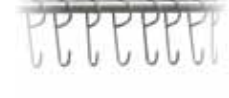
Stainless Steel Turntable



Adjustable Footrest



Elbow Rest



IV Bar with Hooks



Sharps and Waste Containers



Motorized Base Stand



Bast Stand with Storage Cabinet

Also Available: Seismic Brackets
Metal Frame HEPA Filter
Heated Work Surface
Custom Configurations

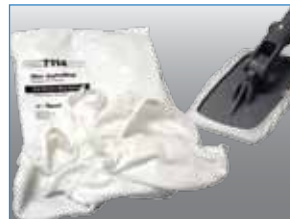
Cleaning of Isolators and Cabinets



Mops



TX7101 Mini AlphaMop™ Isolator Cleaning Tool

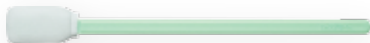


TX7114 Mop Covers



TX8270, TX3290, and TX3270 Sterile IPA

Swabs



TX714A Large Alpha® Swab

Wipes



TX3252, TX3280, and TX3285 Sterile AlphaSats®



TX3215, TX3212, and TX3211 SterileWipes®



TX609 TechniCloth® Wipers



TX1065 TechniSat™



AireGard™ 112 and 114 Clean Air Scrubber

The AireGard™ NU-112 and NU-114 are a portable self-contained unit capable of filtering particulates, odors, and fumes; depending on filter configuration.

Applications

Hospital / Clinic Infection Control

To isolate airborne contaminants and provide an environment that will promote reduced exposure of personnel to the contaminants.

Pharmacy

To help Control room environments during the preparation of CSP's

Construction

Recirculate and purify air when ceiling tiles, walls, or plumbing are disrupted or if fumes and odors are evident from cleaning, painting, etc.

Standard Features

- HEPEX™ Zero Leak Airflow System
- Portable, easy-to-move lockable casters
- Low noise and vibration
- Energy Efficient
- Central control panel
- Retractable 30 ft. power cord
- 99.99% Efficient HEPA filter
- Fiberglass Prefilters
- 115 VAC, 60 Hz, Single Phase
- Textured powder coat urethane finish

General Air Quality

Room size in feet (h x w x d) = X cu. ft.

$$\frac{720 \text{ cfm (air volume)}}{\text{Room Size X cu. ft.}} = \text{number of room air changes per minute}$$

Example

Room size = 8 ft. x 10 ft. x 12 ft. = 960 cu. ft.

$$\frac{720 \text{ cfm}}{960 \text{ cu. ft.}} = .75 \text{ room air changes per minute}$$

.75 X 60 minutes = 45 room air changes per hour



Positive / Negative Room Pressure Application



Room Recirculation Application



Helping to Change the Pharmacy Environment

In a world where change is common place, NuAire® is committed to positive change. Change that will not only promote healthier work habits but increase personnel, product, and environmental protection. NuAire's® broad range of core pharmacy equipment is the most trusted name in the industry. Our dedication to quality, performance, service, and customer satisfaction, makes NuAire® the perfect choice.

We are dedicated to provide information to ergonomically improve work habits, maintain a safer environment, and increase the efficiency of your equipment. We provide a wide variety of helpful information including: product feature comparisons, technical notes, and white papers. We provide training at our Niagara Training facility, seminars, trade shows, and at your site. NuAire® is the "Ergonomic" Company. With more options and accessories available on the NuAire® website www.nuaire.com, it's no wonder why NuAire® is the most trusted name in providing pharmacy professionals consistency in a constantly changing world.



Quality and Dependability for the Future





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