



LABGARD 629^{ES} energy saver

LABGARD NU-629 CLASS II TYPE A2
ANIMAL HANDLING BIOLOGICAL SAFETY CABINET



The **LabGard NU-629 Class II Type A2 Biological Safety Cabinet/Cage Changing Station** provides personnel, product, and environmental protection for sensitive animal handling and cage changing procedures. Built to withstand the rigors of use in an animal facility, the NU-629 is both mobile and height adjustable with the following key features:

Safety

- Greater visibility and reach through a large 12" (305 mm) access opening along with Class II Type A2 bio-hazard containment through a 105 FPM air barrier.
- Uni-directional laminar airflow minimizes air turbulence and cross contamination between animals.
- All contaminated ducts, plenums, and gaskets are under negative pressure or surrounded by negative pressure to eliminate the possibility of cabinet or gasket leaks and to guard against HEPA failure.

Ergonomic Auto-Lift

- Electronically adjustable work surface height from 23.75" (603 mm) to 38.75" (984 mm) or 42.75" (1086 mm) with optional lift system, accommodates the ergonomic needs of multiple users who may be sitting or standing.
- As a bench style cabinet with the motor/blower located in the top, the NU-629 is ideal for seated animal procedure work. The NU-629 is designed for ergonomics and allows a chair to fit completely underneath the work surface.
- The narrow profile of the lift system does not add to the overall width of the cabinet.

The work surface can be lifted and propped or removed quickly without tools to allow for routine disinfection or cleaning liquid spills. **[A]** The height of the work surface is adjustable within a 15" (381 mm) range from minimum of 23.75" (603 mm) to a maximum of 38.75" (984 mm). This flexibility allows a user to sit or stand, as well as accommodating a wide range of user heights. The NU-629 features a redesigned front panel to allow the user to stand closer to the unit, providing a better sight line to the work surface. **[B]**



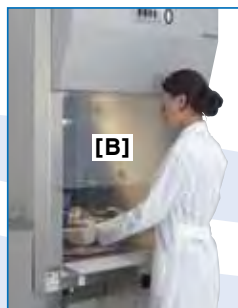
NU-629

HEPA Filtration

- High Efficiency Particulate Air (HEPA) filtration is 99.99% efficient on removal of particulates for supply (re-circulated) and exhausted air.
- Energy efficient DC style ECM motor offers an energy savings of more than 50% over conventional motor technology. The ECM motor also creates an increase in total filter load capacity of 250% to extend the HEPA filter life expectancy from 7 - 10 years.
- Adjustable internal damper and motor speed control further extend HEPA filter life.

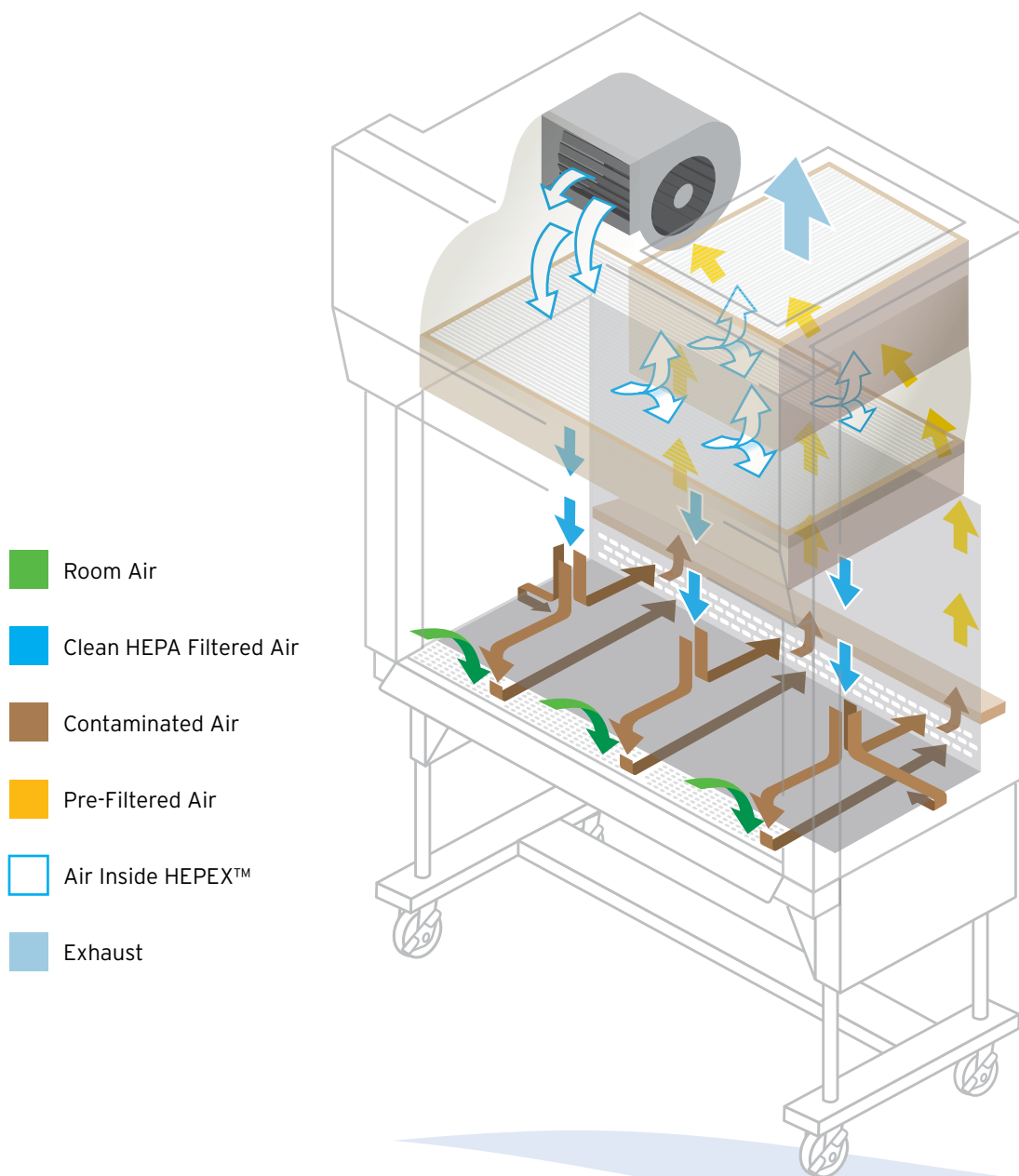
Cleanability

- Pre-filters capture bedding, hair and dander and are easy to access for cleaning. **[C]**



LABCARD 629

Airflow



Experience Ergonomics

1 Ability to Sit or Stand at a Range of Heights

The cabinet design maximizes knee/thigh clearance to improve posture and the adjustable base stand allows optimization for leg and forearm support.



2 Expanded Vision Zone Reduces Awkward Postures and Proper Lighting Reduces Glare

Cabinets incorporate cool white lighting and frameless polished edge windows to allow for greater visibility and better sight lines.



3 Effective Work Zone Area for More "User-Friendly" Space

NuAire's cabinets provide the largest effective work zone which helps reduce arm/neck/shoulder strain. Extend reach up to 12" with 100% stainless steel turntable (ball bearing construction, easy to clean, and can be autoclaved).



Turntable

Standard Features

- Energy Saver DC/ECM Motor Upgrade
- HEPEX™ Zero Leak Airflow
- Essentials Control System
- Experience Ergonomic System
- 105 fpm (0.50 m/s) Air Barrier Personnel Protection
- Back Wall Pre-filter
- Flat Prop Up Work Tray
- ADA Compliant Design
- 12" (305 mm) Access Opening
- Single Piece Monolithic Console Style Construction
- 15" (381 mm) Auto Lift Base Stand
- Two Duplex Outlets (Back Wall)
- HEPA Filters 99.999% @ 0.3 Microns
- Motor Speed Controller
- Internal Exhaust Dampener
- Interior Mounted Cool White Lighting
- 5" (127 mm) Lockable Castors
- Removable Control Center

Optional Features

- Germicidal UV Light
- Ground Fault Interrupter
- Additional Service Valves
- Remote Service Valves
- Additional Outlet
- Alarm Systems
- Exhaust Transitions
- Sinks w/Hot/Cold or DI Water Faucets
- Storage Pull-Out Trays
- Lay in Sorbent Exhaust Filter
- Decorative Side Panels (Hides Plumbing Fixture Connections)
- 18" (457 mm) Height Range Auto Lift Base Stand
- Fixed Height Base Stand
- Permanent Plenum w/Quick Release Supply Filter
- Metal Framed HEPA Filters
- ULPA Filters
- Stainless Steel Armrest
- Heated Work Surface With Micro-Processor Temperature Control System



All models are designed to meet UL, CUL, and CE criteria for safety and performance.

LabGard™ NU-629 Biological Safety Cabinet

Specifications

Catalog Number	NU-629-400 Nominal 4 Foot (1.2 m)	NU-629-500 Nominal 5 Foot (1.5 m)	NU-629-600 Nominal 6 Foot (1.8 m)
Performance Specifications:			
Personal and Product Protection	NSF / ANSI 49	NSF / ANSI 49	NSF / ANSI 49
NSF Std. No. 49 Class	Class II, Type A2	Class II, Type A2	Class II, Type A2
Style of Cabinet	Bench Top / Console w/Base Stand	Bench Top / Console w/Base Stand	Bench Top / Console w/Base Stand
Cabinet Construction (Pressure Tight Design)	All Welded Stainless Steel 16 GA, Type 304	All Welded Stainless Steel 16 GA, Type 304	All Welded Stainless Steel 16 GA, Type 304
Diffuser for Air Supply (Metal)	Non-flammable	Non-flammable	Non-flammable
HEPA Filter Seal Type:			
Supply Filter - 99.99% Eff. on 0.3 μ	HEPEX™ Seal	HEPEX™ Seal	HEPEX™ Seal
Exhaust Filter - 99.99% Eff. on 0.3 μ	Neoprene, Springloaded	Neoprene, Springloaded	Neoprene, Springloaded
Fumigation per NIH/NSF Procedure	Yes	Yes	Yes
Standard Services:			
Service Coupling (3/8 inch NPT)	Two, Right Side Wall	Two, Right Side Wall	Two, Right Side Wall
Duplex Outlet	Two, Back Wall	Two, Back Wall	Two, Back Wall
Optional Services:			
Gas Cocks (3/8 inch NPT)	Up to Three Each Side Wall	Up to Three Each, Side Wall	Up to Three Each, Side Wall
Ultraviolet Light	One, Back Wall	One, Back Wall	One, Back Wall
Cabinet Size, Inches (mm):			
Height (Min / Max)	82 1/2 (2096) / 95 1/2 (2426)	82 1/2 (2096) / 95 1/2 (2426)	82 1/2 (2096) / 95 1/2 (2426)
Width	53 5/8 (1362)	65 5/8 (1667)	77 5/8 (1972)
Depth (with Control Center)	32 7/8 (835)	32 7/8 (835)	32 7/8 (835)
Work Access Opening:			
Standard Opening Height, Inches (mm)	12 (305)	12 (305)	12 (305)
Standard Inflow Velocity (DIM)	105 FPM (.53 m/s)	105 FPM (.53 m/s)	105 FPM (.53 m/s)
Work Surface Height (Min / Max)	26 (660) / 39 (991)	26 (660) / 39 (991)	26 (660) / 39 (991)
Work Zone, Inches (mm):			
Height	28 1/2 (724)	28 1/2 (724)	28 1/2 (724)
Width	46 3/8 (1178)	58 3/8 (1483)	70 3/8 (1788)
Depth	23 1/2 (597)	23 1/2 (597)	23 1/2 (597)
Viewing Window, Inches (mm)	Fully Closed to 19 1/2 (495) Open	Fully Closed to 19 1/2 (495) Open	Fully Closed to 19 1/2 (495) Open
Standard is Tempered Sliding Glass			
Required Exhaust CFM (CMH)			
Standard:			
Canopy (NU-918 / 917)	506 (860)	627 (1065)	750 (1274)
Canopy (NU-916)	530 (818)	657 (1117)	772 (1314)
Plant Duct Static Pressure, Inches (mm)	0.05 - 0.1 (1.27 - 2.54)	0.05 - 0.1 (1.27 - 2.54)	0.05 - 0.1 (1.27 - 2.54)
Heat Rejected, BTU / Hour (Non-vented / Vented)	2551 / 157	2669 / 178	2787 / 198
Electrical:	U.L. / U.L.-C Listed	U.L. / U.L.-C Listed	U.L. / U.L.-C Listed
Volts, AC (60 Hz)	115	115	115
Amps: Blower / Lights / Autolift †	6.5	6.8	7.1
Amps: Duplex	3	3	3
Amps: Total	15	16	16
12 ft Power Cord (One)	14 GA - 3 Wire, 20A	14 GA - 3 Wire, 20A	14 GA - 3 Wire, 20A
Net Weight	750 lbs (340 kg)	815 lbs (369 kg)	880 lbs (398 kg)
Crated Shipping Weight*	800 lbs (362 kg)	865 lbs (392 kg)	930 lbs (421 kg)

* Crated shipping weight does not include weight for accessories or options.

† Base on cabinet with new filters running at 115 VAC.



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