



**PURCHASE SPECIFICATIONS :**

**PURCHASE SPECIFICATIONS FOR NUAIRE  
LABGARD® CONTAINMENT Ventilated Enclosure  
NU-813 (Series 32)**

The intent herein is to provide a concise statement of requirements for a quality LABGARD® Containment Ventilated Enclosure (CVE), which may be used to augment your purchase request/order.

NuAire sales representatives will be pleased to explain the importance of the performance and control affected by each of the following requirements. The NuAire LABGARD® NU-813 meets all of the requirements in the following SPECIFICATION.

1. Dimensions Inches (mm)

<b>Overall Dimensions (mm):</b>	<b>NU-813-300</b>	<b>NU-813-400</b>	<b>NU-813-600</b>
Width (W)	36" (914)	48" (1219)	72" (1829)
Depth (D)	29" (737)	29" (737)	29" (737)
Height (H)	54" (1372)	54" (1372)	54" (1372)
<b>Interior Dimensions (mm):</b>			
Width (W)	34-3/8" (873)	46-3/8" (1178)	70-3/8" (1788)
Depth (D)	24" (610)	24" (610)	24" (610)
Height (H)	28" (711)	28" (711)	28" (711)

2. CVE shall provide airflows & biological safety performance as specified.
  - a. CVE shall provide personnel protection for the operator proven by an actual test, (e. g. ANSI\ASHRAE 110, Surrogate Powder, Biological) and routinely validated by NuAire.
  - b. Work access opening shall be 8 inches (203mm).  
Average inflow velocity shall nominally be 60 - 100 FPM (.30 - .51 m/s).
  - c. Removable stainless steel airfoils provided on bottom and sides of work access opening for optimal containment performance.
  - d. Exhaust HEPA Filter 99.99% at 0.3 micron.
3. The workzone of the CVE consists of all plastic panels: the back panel is white ¼-inch (6 mm) polycarbonate, the side panels are clear ½-inch (13 mm) polycarbonate and the hinged front viewing panel is clear ¼-inch (6 mm) polycarbonate. The viewing panel can be raised to provide a 24-inch (610 mm) opening.
4. CVE shall come assembled to molded dished epoxy resin worksurface.
5. CVE designed to move air from the front to the back wall.
6. Electrical power shall be supplied with a 12 foot (3.6m), 3-wire cord with molded plug.  
Electrical supply should be 115 VAC, 60 Hz (current rating varies per cabinet size, reference Electrical Requirements, Page 3) protected with thermal circuit breaker from distribution panel.
7. CVE shall utilize EC (Energy efficient) motor(s)



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8. CVE shall come equipped with PresurFlow™ Pressure Monitor for constant monitoring of airflow.
9. CVE shall contain Aeromax™ control system consisting of electronic modules that will perform the following functions.
  - Easy user interface via LED and function keys.
  - Control blower via solid state switch.
  - Control lights via solid state switch.
  - Hinged window alarm
  - Disable audible alarm switch with ring back function.
  - Control blower DC EC Impeller with solid-state DC motor controller that provides automatic compensation for line voltage variances.
  - Monitor and display airflow system performance via PresurFlow™ Pressure monitor.
10. The CVE shall be easily transportable through a standard 36 inch (914mm) wide door without disassembly.
11. Sound level shall be no more than 62 dbA measured 15 inches (381mm) above the work tray and 12 inches (305mm) in front of viewing window.
12. Fluorescent lighting shall be externally mounted and provide 50 (538) to 150 (1600) foot-candles (LUX) on work surface. The ballast is to be electronic containing thermal protection with automatic reset.
13. CVE shall have a “bag in bag out” system for filter removal and replacement.
14. EC Impeller shall be mounted on the clean side of the HEPA filter for ease of service.
15. CVE shall be easily converted to a freestanding console model with the addition of the telescoping base Stand.
16. The following optional equipment shall be available to support installation and user requirements:
  - a. Service Valves
  - b. Telescoping basestand (30” – 36” worksurface)
  - c. Telescoping basestand (extended height, 36” – 42”)
  - d. Purafil Filter (in place of HEPA)
  - e. Charcoal Filter (in place of HEPA)
  - f. LED lighting
  - g. Dual Exhaust HEPA Filters 99.99% at 0.3 micron
  - h. Canopy Transition
  - i. SST shelf

**Labgard® Containment Ventilated Enclosure**  
**Models NU-813-300/400/600/E**

Catalog Number	Catalog Number		
	NU-813-300 Nominal 3 foot (0.9m)	NU-813-400 Nominal 4 foot (1.2m)	NU-813-600 Nominal 6 foot (1.5m)
Performance Specifications 1. Personal Protection 2. Product Protection	ANSI/ASHRAE 110 NSF/ANSI 49 Surrogate Powder	ANSI/ASHRAE 110 NSF/ANSI 49 Surrogate Powder	ANSI/ASHRAE 110 NSF/ANSI 49 Surrogate Powder
NSF Std. No. 49 Class	Class I	Class I	Class I
Style of Cabinet	Bench top/console with optional base stand	Bench top/console with optional base stand	Bench top/console with optional base stand
Cabinet Construction	Polycarbonate panels with welded blower module.	Polycarbonate panels with welded blower module.	Polycarbonate panels with welded blower module.
HEPA Filter Seal Type: Exhaust Filter-99.995% Eff. on 0.3 microns	Neoprene, Spring loaded	Neoprene, Spring loaded	Neoprene, Spring loaded
Fumigation per NIH/NSF Procedure	Yes	Yes	Yes
Optional Services: Gas Cocks 3/8" NPT	Up to 3 ea. Sidewall	Up to 3 ea. Sidewall	Up to 3 ea. Sidewall
Cabinet Size Inches (mm): Height Depth Width	54 (1372) 29 (737) 36 (914)	54 (1372) 29 (737) 48 (1219)	54 (1372) 29 (737) 72 (1829)
Work Access Opening Inches (mm): Standard Opening Height/Optional Standard Inflow Velocity	8 (203) 80 FPM (.40 m/s)	8 (203) 80 FPM (.40 m/s)	8 (203) 80 FPM (.40 m/s)
Work Zone Inches (mm): Height Depth Width	28 (711) 24 (610) 34-3/8 (873)	28 (711) 24 (610) 46-3/8 (1178)	28 (711) 24 (610) 70-3/8 (1788)
Viewing window is ¼ in (6mm). clear polycarbonate	Closed: 8 (203) Open: 24 (610)	Closed: 8 (203) Open: 24 (610)	Closed: 8 (203) Open: 24 (610)
Noise: dbA Ambient Running	53 57	53 57	53 62
CFM @ 80 FPM	195 CFM	260 CFM	390 CFM
Heat Rejected, BTU, Per Hour (non-vented)	265	330	600
Electrical: 115V (230V) Volts, AC (Hz) Amps: Blower Amps: Lights Amps: Total 12 ft. Power Cord (one)	UL Listed / CE 115 / 60 1.6 .2 1.8 14 GA - 3 Wire, 15A	UL Listed / CE 115 / 60 1.8 .2 2.0 14 GA - 3 Wire, 15A	UL Listed / CE 115 / 60 3.2 .4 3.6 14 GA - 3 Wire, 15A
Crated Shipping Weight: *** Net Weight	350 lbs. / 159 kg. 300 lbs. / 136 kg.	450 lbs. / 204 kg. 400 lbs. / 181 kg.	550 lbs. / 249 kg. 500 lbs. / 227 kg.

\*\*\*Crated shipping weight does not include weight for accessories or option