



## PURCHASE SPECIFICATIONS : NuAire Model NU-622/623 AllerGard™ ES Energy Saver Containment Small Animal Transfer Station

### General

The NuAire AllerGard™ ES Energy Saver Containment Small Animal Transfer Station Model NU-622 is a unique configuration offers the benefits of vertical HEPA filtered airflow for product protection on the worksurface. In addition, the NU-620 provides improved allergen personnel protection by incorporating a HEPA filtered down draft vacuum on the worksurface to assure minimal exposure to animal hair/dander as well as cage bedding material. **However, the NuAire Model NU-622 should not be used as a substitute for a Class II, Type A2 Biosafety Cabinet. The NU-622 is not a containment device for airborne particulate in low to moderate risk-hazard research** as prescribed by the CDC/NIH Biosafety in Microbiological and Biomedical Laboratories.

#### 1. Dimensions:

|                                        |                           |                          |                          |
|----------------------------------------|---------------------------|--------------------------|--------------------------|
| Overall Dimensions – Inches (mm):      | NU-622-300<br>NU-622-300  | NU-622-400<br>NU-623-400 | NU-622-500<br>NU-623-500 |
| * Width:                               | 42 (1067)                 | 48 (1219)                | 60 (1524)                |
| Depth:                                 | 30 7/8 (785)              | 30 7/8 (785)             | 30 7/8 (785)             |
| **Height:                              | 77 5/8 (1972)             | 77 5/8 (1972)            | 77 5/8 (1972)            |
| Worktray Dimensions:                   |                           |                          |                          |
| Width:                                 | 33 1/2 (851)              | 41 1/2 (1054)            | 53 1/2 (1360)            |
| Depth:                                 | 26 3/4 (680)              | 26 3/4 (680)             | 26 3/4 (680)             |
|                                        |                           |                          |                          |
| Worksurface Height:<br>4 Inch Castors: | 36 (915) to 46 3/4 (1187) |                          |                          |

- Station shall be constructed of cold rolled steel (excluding stainless steel worksurface area) coated with tough corrosive-resistant powder coat enamel finish. Supply module shall be supported by two cold rolled steel uprights located at the midpoint of the side allowing for maximum technician access to the worksurface.
- The station shall have 6" (152mm) minimum of knee space providing the station user the ability to sit.
- Hinged windows shall be scratch resistant polycarbonate, 16" (406mm) access height for maximum access to the worksurface.
- Station shall have an adjustable hydraulic lift system with standard automatic electric lift to provide for a 10.75" (272mm) worksurface adjustment range.
- Castors shall be stainless steel 4" (102mm) diameter polyurethane wheels with brakes.
- Worksurface shall be two pieces stainless steel, type 304, 16 ga. (0.060) with easy lift handles and tilt-up holding rods for access to exhaust prefilter and cleaning. Down draft plenum under worksurface shall be stainless steel type 304, 16 ga. (0.060) with a waste chute.

8. Supply and exhaust HEPA filters shall be 99.99% efficient at 0.3 microns. The supply HEPA filter downflow pattern is uniform and velocity is adjustable between 55-65 feet per minute (.28-.33m/s) providing ISO class 3 at rest measured at 0.5 micron particles per cu.ft./min.
9. The station shall use an EC Impeller(s) and a DC ECM Motor with an optimally determined forward-curved fan for each model size/width to maximize both energy efficiency and filter loading capacity.
10. The station shall have two internal electrical circuits; one for blower/lights and one for the duplex outlets. Each circuit shall be protected with a fuse located in the Control Center on the electronic module.
11. The station shall be listed by Underwriters Laboratories to meet the requirements of both the U.S. and Canada for electrical/mechanical integrity.
12. Station shall contain the Aeromax™ control system consisting of an electronic module that will perform the following functions:
  - Easy user interface via LED's and function keys
  - 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 DC ECM motor with solid-state DC Motor Controller that provides automatic compensation for line voltage variances.
  - Monitor and display airflow system performance via PresurFlow™ monitor.
13. Supply prefilter shall be washable or disposable.
14. Exhaust primary prefilter under the worksurface shall be washable or disposable.
15. Blowers capable of automatically handling a 60% minimum increase in filter loading without a decrease in total air delivery of more than 10%. Provide a voltage compensating motor speed controller that automatically compensates for voltage changes to maintain constant voltage to motor. Speed controller will permit manual adjustment to handle a 150% increase in filter loading and maintain total air delivery at or above 90%.
16. Lighting provided shall use energy efficient (T8) LED lamps both standard and red light.
17. Unit to carry a three (3) year warranty.

**AllerGard™ ES Energy Saver**  
**Containment Small Animal Transfer Station**  
**Models**  
**NU-622-300/400/500**  
**NU-623-300/400/500**

| Catalog Number                                                                                                                                                                         | Catalog Number                                                              |                                                                             |                                                                             |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|-----------------------------------------------------------------------------|
|                                                                                                                                                                                        | NU-622-300<br>NU-623-300<br>Nominal 3 foot (0.9m)                           | NU-622-400<br>NU-623-400<br>Nominal 4 foot (1.2m)                           | NU-622-500<br>NU-623-500<br>Nominal 5 foot (1.5m)                           |
| Performance Specifications<br>NU-622-XXX Product / Personnel<br>NU-623-XXX Product / Personnel                                                                                         | ISO 3 / Improved Allergen<br>ISO 3 / NSF/ANSI 49                            | ISO 3 / Improved Allergen<br>ISO 3 / NSF/ANSI 49                            | ISO 3 / Improved Allergen<br>ISO 3 / NSF/ANSI 49                            |
| Diffuser for Air Supply (Metal)                                                                                                                                                        | Non-flammable                                                               | Non-flammable                                                               | Non-flammable                                                               |
| Supply Filter-99.99% Eff. on 0.3 microns<br>Exhaust Filter-99.99% Eff. on 0.3 microns                                                                                                  | Neoprene, Spring-loaded                                                     | Neoprene, Spring-loaded                                                     | Neoprene, Spring-loaded                                                     |
| Fumigation : per NIH/NSF Procedures                                                                                                                                                    | Yes                                                                         | Yes                                                                         | Yes                                                                         |
| Standard Services:<br>Duplex Outlet                                                                                                                                                    | One Sidewall                                                                | One Sidewall                                                                | One Sidewall                                                                |
| Optional Services:<br>Folding Shelf (Either Side/Both)                                                                                                                                 | 14 (355) X 30 (762)                                                         | 14 (355) X 30 (762)                                                         | 14 (355) X 30 (762)                                                         |
| Cabinet Size Inches (mm):<br>Height (Fully Assembled, minimum)<br>Height (Fully Assembled, maximum)<br>Height (Minimum for Transport without Castors)<br>Width (with handles)<br>Depth | 77 5/8 (1972)<br>88 3/8(2244)<br>72 1/8 (1832)<br>48 (1220)<br>30 5/8 (777) | 77 5/8 (1972)<br>88 3/8(2244)<br>72 1/8 (1832)<br>54 (1372)<br>30 5/8 (777) | 77 5/8 (1972)<br>88 3/8(2244)<br>72 1/8 (1832)<br>66 (1677)<br>30 5/8 (777) |
| Work Access Opening Inches (mm):<br>Standard Opening Height                                                                                                                            | 16 (406)                                                                    | 16 (406)                                                                    | 16 (406)                                                                    |
| Work Zone Inches (mm):<br>Height<br>Width<br>Depth                                                                                                                                     | 26 5/8 (676)<br>38 1/8 (968)<br>30 1/8 (764)                                | 26 5/8 (676)<br>44 1/8 (1121)<br>30 1/8 (764)                               | 26 5/8 (676)<br>56 1/8 (1426)<br>30 1/8 (764)                               |
| Viewing Window Inches (mm):                                                                                                                                                            | Polycarbonate                                                               | Polycarbonate                                                               | Polycarbonate                                                               |
| Heat Rejected, BTU, Per Hour                                                                                                                                                           | 785                                                                         | 785                                                                         | 785                                                                         |
| Electrical:<br>Volts, AC 60 Hz<br>+Amps: Blower/Lights<br>Amps: Duplex<br>Rated Amps:<br>20 ft. (6.09 m) Power Cord                                                                    | U.L./U.L.-C Listed<br>115<br>5.0<br>3<br>12<br>Cord Reel-15A                | U.L./U.L.-C Listed<br>115<br>5.5<br>3<br>12<br>Cord Reel-15A                | U.L./U.L.-C Listed<br>115<br>6.0<br>3<br>12<br>Cord Reel-15A                |
| Crated Shipping Weight:***<br>Net Weight                                                                                                                                               | 390 lbs. /2177 kg.<br>340 lbs. /154 kg.                                     | 420 lbs. /190 kg.<br>370 lbs. /2168 kg.                                     | 490 lbs. /222 kg.<br>440 lbs. /200 kg.                                      |

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

+ Based on cabinet with new filters running at 115VAC.