

FumeGard NU-164 Bypass Fume Hood



Constructed of polypropylene, the FumeGard NU-164 has a by-pass (protected by a grill) which maintains a constant volume of airflow.

As the sash is closed, air is bypassed at the top of the hood, causing the hood face velocity to increase much more slowly than a conventional fume hood. A deflector vane across the bottom of the opening directs airflow across the work surface. This provides a permanent opening even when the sash is closed. Most of the exhausted air enters the fume hood through the bypass.

INDUSTRIES SERVED

Analytical Chemistry
Trace Metal Analysis
Water Treatment
Toxicology
Salt Water and Marine Science
Semiconductor Manufacturing
Food and Beverage

STANDARD FEATURES

- ½" (13 mm) Stress-relieved all seam-welded polypropylene construction
- All negative pressure interior
- Air bypass for more uniform face velocity during view screen manipulation
- Sealed interior (2) bulb LED lighting
- Counterbalanced polycarbonate view screen slides 18" (457 mm) maximum opening to fully closing
- Flush-mounted exterior/interior plumbing chase access panel
- Connection provided for venting a base cabinet
- Removable rear baffle for maintenance
- Rectangle to round exhaust connection
- Work surface is reinforced ½" (13 mm) thick polypropylene
- Flush-mounted interior & exterior plumbing access panels
- Lower work access opening airfoil
- PVC electrical junction box

OPTIONAL FEATURES

- PVDF lined interior or flame retardant polypropylene
- ADA-designed configuration
- Epoxy resin work surfaces
- TEL air flow monitor/alarm
- Remote-controlled service valves for air, vacuum, and/or nitrogen - available in PVC, PVDF, or polypropylene*
- Rear exhaust duct wash-down system
- Polypropylene or PVDF gooseneck faucets
- Deionized water or nitrogen PVDF spray guns
- PVDF or polypropylene dip tanks with or without drains
- Teflon liquid/air aspirators to siphon chemicals
- Polypropylene exhaust damper
- Cup sink or custom size sinks, chemically-resistant P-trap
- Acid (vented) and flammable base cabinets

*Metallic pipe/surface is Coated with 20 mil Thermoplastic Powder PolyArmor®

NU-164 Data Sheet

OVERALL DIMENSIONS

	4 FOOT	5 FOOT	6 FOOT	8 FOOT
Width	48 ½" (1232 mm)	60 ½" (1537 mm)	72 ½" (1842 mm)	96 ½" (2451 mm)
Depth 24": (W/O canopy)	31 ½" (800 mm)	31 ½" (800 mm)	31 ½" (800 mm)	31 ½" (800 mm)
Depth 30": (W/O canopy)	37 ½" (952 mm)	37 ½" (952 mm)	37 ½" (952 mm)	37 ½" (952 mm)
Height (includes exhaust collar)	60 ½" (1537 mm)	60 ½" (1537 mm)	60 ½" (1537 mm)	60 ½" (1537 mm)

WORK AREA DIMENSIONS

Width	38 ½" (978 mm)	50 ½" (1283 mm)	62 ½" (1588 mm)	86 ½" (2197 mm)
Depth: 24"	25 ½" (648 mm)	25 ½" (648 mm)	25 ½" (648 mm)	25 ½" (648 mm)
Depth: 30"	31 ½" (800 mm)	31 ½" (800 mm)	31 ½" (800 mm)	31 ½" (800 mm)
Height	29" (737 mm)	29" (737 mm)	29" (737 mm)	29" (737 mm)

EXHAUST REQUIREMENTS

Inflow Velocity	105 lfpm	105 lfpm	105 lfpm	105 lfpm
Exhaust Volume (window full open)	506 cFM (1433 cMM)	665 cFM (188.33 cMM)	823 cFM (23.33 cMM)	1140 cFM (32.3 cMM)
Static Exhaust	0.3" (8 mm) w.g.	0.4" (10 mm) w.g.	0.5" (13 mm) w.g.	0.8" (20 mm) w.g.
Exhaust Duct Opening	12" (304 mm) Diameter	12" (304 mm) Diameter	12" (304 mm) Diameter	12" (304 mm) Diameter

Concurrent Balance Value shall be used for design and balance exhaust/supply HVAC requirements.

SHIPPING WEIGHT

24" Work Surface	705 lbs (320 kg)	730 lbs (332 kg)	825 lbs (375 kg)	1265 lbs (575 kg)
30" Work Surface	756 lbs (344 kg)	839 lbs (381 kg)	900 lbs (409 kg)	1325 lbs (602 kg)

WARRANTY

1 Year Limited Warranty

ELECTRICAL REQUIREMENTS

Standard is 115 VAC, 60 Hz, 4-12 Amps depending on model
 CE Certified Standard is 230 VAC, 50 Hz, 5-6 Amps depending on model
 If more amperage is required, separate circuits can be provided at additional cost.
 PVC junction box is provided for electrical connections

STANDARDS

ASHRAE Standard 110-2016
 SEFA 1
 UL, UL-1805, UL-C
 CE

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