

Echo™ & Airo™ Filtered Fume Hoods

Features & Benefits



Energy savings

Reduces HVAC costs by eliminating need for make-up air.

Eco-friendly

Carbon filters trap chemicals from being exhausted into the atmosphere.

Easy to install

No ductwork is required. Quick start-up with simple 5-step install.

Maximum containment

All the safety of a ducted hood without the ductwork.

Flexible installation

May be placed anywhere in a facility with minimal setup. Allows for installation in flex spaces or temporary labs.

Restricted By-Pass

Reduces energy usage and increases safety.

Small and large sizes

Fits any space or application needs. Floor-mounted hoods available for applications with a large apparatus.

DH III filtration setup

For ensured safety, backup filter has the same retention potential as the main filter.

High Heat Application

Filtered hoods have shown robust heat tolerance from hot plates, ovens, or heat-generating equipment up to 300-degrees C surface temperature.

Smart Command Control Module



Smart Command

Sleek, easy to use interface integrates with filtration technology to monitor performance and maintain safety.



Smartphone connection

For access to advanced functions and data via free eGuard software.

Smart alert

Communicates performance changes through visual and audible signals.

Filter monitoring

For at-a-glance updates to filter status.



*U.S. Patent No. 6,461,233



Airo™ Benchtop Filtered Fume Hoods

Ordering Information



Catalog Number Configurator Use this key to configure the nine digit catalog number.

1 8 4 0

Select the **WIDTH** and **INTERIOR DEPTH** of your fume hood. These are the fourth and fifth digits. Shipping weights are shown.

30 = 3', 25.3" interior depth, 435 lbs. (197 kg)

31 = 3', 31.3" interior depth, 475 lbs. (215 kg)

41 = 4', 31.3" interior depth, 525 lbs (336 kg)

Select the **SENSOR PACKAGE** for your fume hood. This is the seventh digit.

2 = Solvent sensor

4 = Solvent sensor + acid sensor

6 = Solvent sensor + formaldehyde sensor

Select the **ELECTRICAL CONFIGURATION, SERVICE FIXTURES** and **GFCI ELECTRICAL DUPLEX RECEPTACLE** for your fume hood. These are the eighth and ninth digits. Add 10 lbs. (5 kg) for models with service fixtures.

00 = 115V, 50/60 Hz, with 10A plug for North America
No service fixtures

01 = 115V, 50/60 Hz, with 10A plug for North America
Two service fixtures

02 = 115V, 50/60 Hz, with 10A plug for North America
Two service fixtures and GFCI Duplex

03 = 115V, 50/60 Hz, with 10A plug for North America
No service fixtures and GFCI Duplex

20 = 230V, 50/60 Hz, with 5A plug for North America
No service fixtures

21 = 230V, 50/60 Hz, with 5A plug for North America
Two service fixtures

All models require (not included):

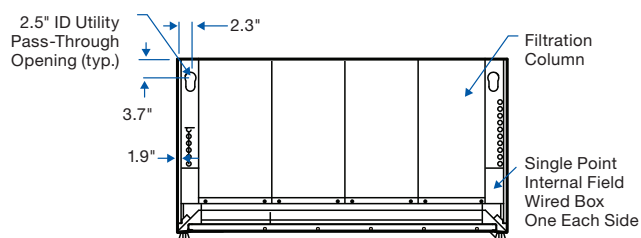
- Neutrodine® Unisorb filters (see pages 15-16)
- Work surface (see page 13)
- Base cabinet or stand (contact Labconco)

Hood Width	Hood Depth	
	Interior	Exterior
3'	25.3"	31.7"
3'	31.3"	37.7"
4'	31.3"	37.7"

Catalog number may vary pending LPQ chemical assessment analysis.

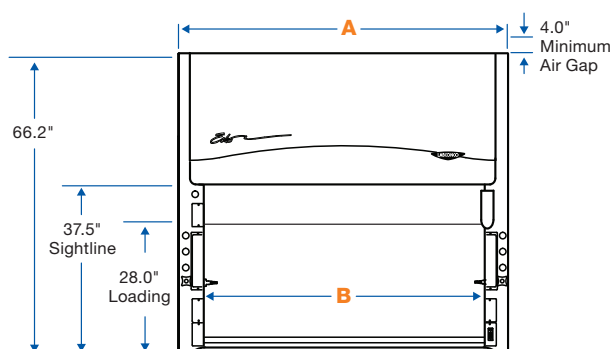
Echo™ & Airo™ Benchtop Filtered Fume Hoods

Dimensional Data

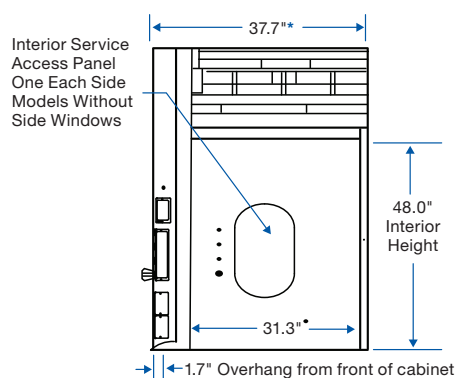


TOP (Echo Benchtop Hoods)

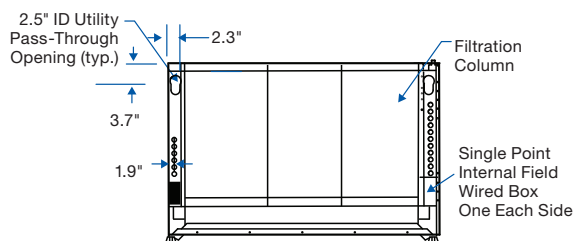
Echo	A	B
4'	48.0"	38.2"
5'	60.0"	50.2"
6'	72.0"	62.2"
8'	96.0"	86.2"



FRONT (Echo Benchtop Hoods)

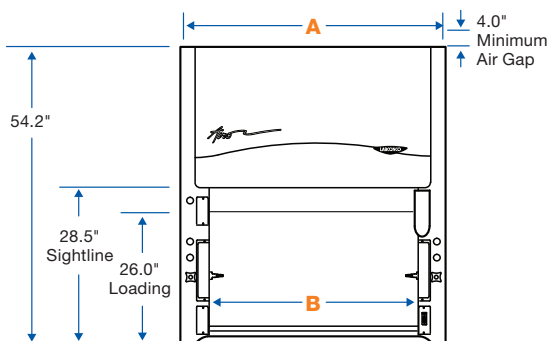


SIDE (Echo Benchtop Hoods)

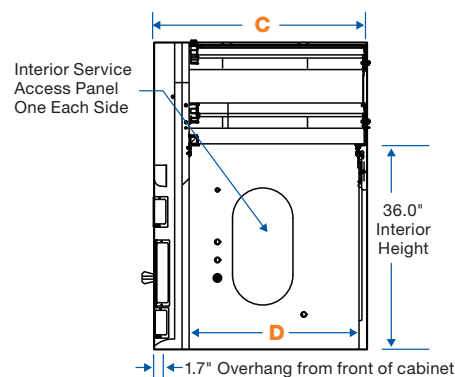


TOP (Airo Benchtop Hoods)

Airo	A	B	C	D
3'	36.0"	26.2"	31.7"	25.3"
3'	36.0"	26.2"	37.7"	31.3"
4'	48.0"	38.2"	37.7"	31.3"



FRONT (Airo Benchtop Hoods)



SIDE (Airo Benchtop Hoods)

*38.1" depth on models with back window
NOTE: HEPA filters add 3.5" to overall height.



Echo™ & Airo™ Benchtop Filtered Fume Hoods

Specifications

All models feature:

- * Eco-Foil™ air foil with aerodynamic Clean-Sweep™ airflow openings*
- * Cord-Keeper™ Slots on left and right side of air foil
- * Removable front and side panels, and front and interior service access panels (except side window models) for access to plumbing and electrical wiring
- By-pass airflow design
- Glacier white powder-coated steel exterior
- Chemical-resistant, fiberglass-reinforced, composite panel liner
- Pre-wired vapor-proof LED lights for up to 63 footcandles rated for 50,000 hours
 - 2 lights per 4' model
 - 3 lights per 5' model
 - 4 lights per 6' model
 - 5 lights per 8' model
- eGuard software communication
- Smart control command module with wifi, bluetooth and ethernet connectivity
- Neutrodine® Unisorb Filters compatible with over 700 chemicals
- Factory-installed command module, fan button and light button
- Roughing prefilter, 2 each per 4' model, 3 each per 5' model, 4 each per 6' model, and 5 each per 8' model
- Built-in exhaust fans: 2 each per 4' model, 3 each per 5' model, 4 each per 6' model, and 5 each per 8' model, to maintain at least 60 fpm face velocity at 16" sash opening height
- Sound pressure of <60 dB(A) with sash at operating height and <48 dB(A) with sash closed
- Sensor package for primary filter breakthrough of solvent fumes (acid/formaldehyde optional), face velocity, temperature and RH
- Audible/visual alarms for breakthrough detection, temperature ≥40° C (104° F), fan failure and low face velocity, high RH. At ≥60° C (140° F), all fans stop
- Power cord with plug to power the Smart control command module, fans and lights. Included junction box to route wiring for any additional electrical such as duplexes

Airo models also feature:

- * Single piece, tempered safety glass vertical-rising sash with cable pulley, sash weight and powder-coated aluminum sash handle and tracks with airflow openings. Sash stop at 13" sash opening height on 3' models and 16" sash opening height on 4' models. Sash opens to 26" high for loading
- Factory-prepared for up to two electrical duplex receptacles and six service fixtures
- 28.5" high sightline between the work surface and header panel

* Labconco exclusive feature

Echo models also feature:

- * Single piece, tempered safety glass vertical-rising sash with cable pulley, sash weight and powder-coated aluminum sash handle and tracks with airflow openings. Sash stop at 16" sash opening height. Sash opens to 28" high for loading
- Factory-prepared for up to four electrical duplex receptacles and eight service fixtures
- 37.5" high sightline between the work surface and header panel

Side and back window Echo models may also feature:

- Right and left side-mounted tempered safety glass windows, 15.0" wide x 26.5" high
- Rear tempered safety glass window, 32.4" high
 - 4' model: 27.9" wide
 - 5' model: 36.9" wide
 - 6' model: 49.9" wide
 - 8' model: 66.9" wide

Fixtured models may also feature:

- Two pre-plumbed service fixtures with forged brass valves, lower right side with brass tubing for gas and lower left side with copper tubing for cold water. Components for converting either or both fixtures to air and vacuum are provided. Inlet tubing is not provided
- One pre-wired GFCI electrical duplex receptacle on lower right side and, on 8' models only, one additional pre-wired GFCI electrical duplex receptacle on the lower left side

Standards conformance & regulations:

- SEFA 9, DH III
- SEFA 8, Cabinet Surface Finish Tests
- Modified ASHRAE 110
- ANSI Z9.5 & CSA Z316.5
- AFNOR NF-X 15-211
- ASTM E84-09C
- UL Standard 61010-1
- CAN/CSA C22.2 No. 61010-1

WARNING: Cancer—P65Warnings.ca.gov (California only)

Options include:

- HEPA filter (adds 3.5" to overall height)
- Sash opening wing reduction kits. See page 16
- Region-specific electrical plug configurations
- Service fixtures

All models require (not included):

- Neutrodine® Unisorb, or HEPA Filters on HEPA-only models. See pages 15-16
- Work surface. See page 13
- Base cabinet or stand. Contact Labconco

