

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



Echo™ Floor-Mounted Filtered Fume Hoods

Ordering Information



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

1 8 3 7

Select the **WIDTH** of your fume hood. This is the fourth digit. Shipping weight is noted. Add 15 lbs. (7 kg) for 43.7" deep models and 30 lbs. for 55.7" deep models.

4 = 4', 740 lbs. (336 kg) **6** = 6', 1095 lbs. (497 kg)
5 = 5', 970 lbs. (440 kg) **8** = 8', 1435 lbs. (651 kg)

Select the **EXTERIOR DEPTH** of your fume hood. This is the fifth digit.

1 = 37.7" **2** = 43.7" **3** = 55.7"

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*
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

*Hoods with GFCI electrical duplex are rated at 20 amps. 8' Hoods have two GFCI electrical duplex receptacles, one mounted on each side, 20 amps each.

All models require (not included):

- Neutrodine® Unisorb filters (see pages 15-16)

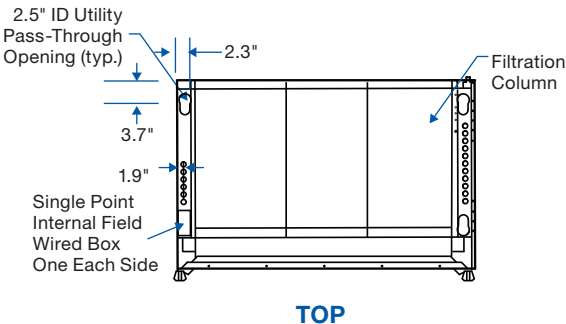
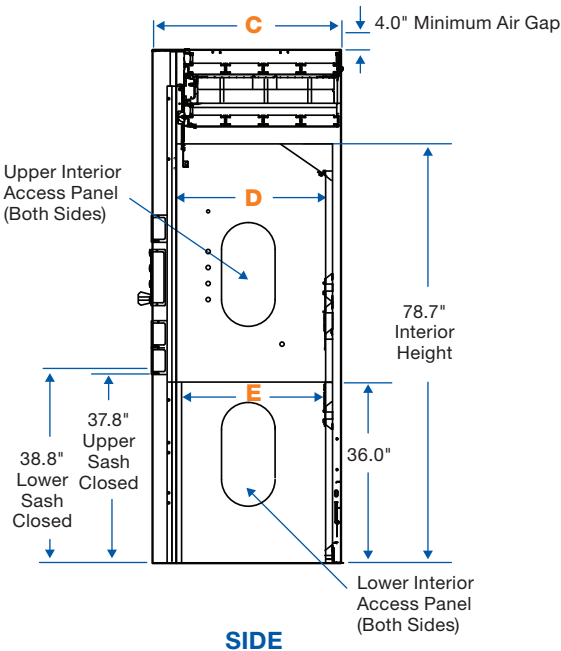
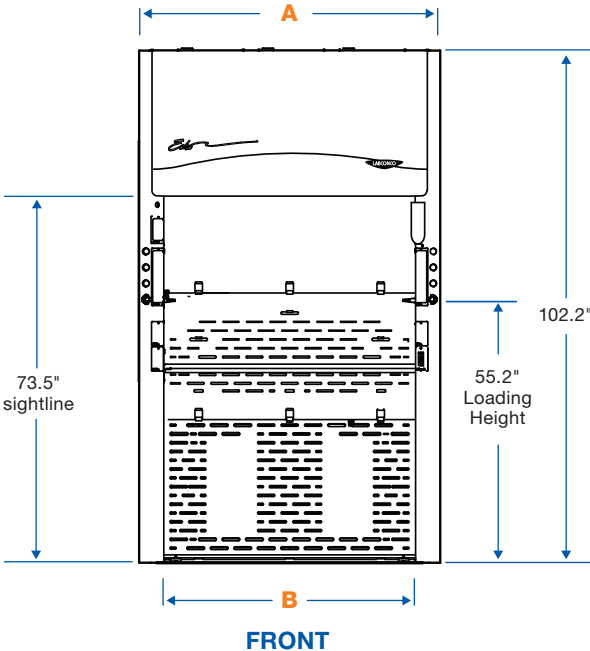
Exterior Depth	Interior Depth	
	Lower	Upper
37.7"	28.7"	29.7"
43.7"	34.7"	35.7"
55.7"	46.7"	47.7"

Contact Labconco for shipping dimensions for floor-mounted fume hoods.

Catalog number may vary pending LPQ chemical assessment analysis.

Echo™ Floor-Mounted Fume Hoods

Dimensional Data



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

C*	D	E
Exterior Depth	Upper Working Depth	Lower Working Depth
37.7"	29.7"	28.7"
43.7"	35.7"	34.7"
55.7"	47.7"	46.7"

*8' Vertical sash models will have an additional 0.63" of exterior depth.

Floor-mounted fume hoods are shipped partially unassembled (on 2-3 pallets) and require some field assembly (not provided by Labconco). Detailed instructions are available in the user's manual and upon request.

NOTE: HEPA filters add 3.5" to overall height.



Echo™ Floor-Mounted Filtered Fume Hoods

Specifications

All models feature:

- ❖ Single piece, tempered safety glass vertical-rising sashes with cable pulley, sash weight and powder-coated aluminum sash handle and tracks with Clean-Sweep™ airflow openings. Upper sash stop at 52" sash open height from floor. Upper sash chemical loading opening of 25.2". Lower sash opens up from floor to 55.2" for transporting carts, drums and apparatus
- ❖ Removable front and side panels, and front and interior service access panels for access to plumbing and electrical wiring
- 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
- Rear baffle
- 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' and 6' model
 - 5 lights per 8' model
- Factory-prepared for up to four electrical duplex receptacles and eight service fixtures
- Roughing prefilter, 2 each per 4' model, 3 each per 5' and 6' models, and 5 each per 8' model
- Built-in exhaust fan(s) to maintain 60 fpm face velocity with only an upper sash working opening of 13.2"
 - 4' models: 2 each
 - 5' and 6' models: 3 each
 - 8' models: 5 each
- 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

❖ Labconco exclusive feature

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)
- 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

Contact Labconco for ordering information on electrical duplex receptacles, service fixtures and other accessories.

