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Critical Environment Solutions



Quick-Start Operating Guide *Document No. 1800-65*

Exhaust Fume Hood

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Quick-Start Operating Guide

Exhaust Fume Hood

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Safety Notice

A thorough familiarity with all operating guidelines is essential to safe operation of the product. Failure to observe safety precautions could result in poor performance, damage to the system or other property, or serious bodily injury or death.

The following symbols are intended to call your attention to two levels of hazard involved in operation:

CAUTION

Cautions are used when failure to observe instructions could result in significant damage to equipment.

WARNING

Warnings are used when failure to observe instructions or precautions could result in injury or death.

The information presented here is subject to change without notice.

1.0 Introduction



This manual provides information on installing and operating your Terra Universal Hand Exhaust Fume Hood.

By studying this document carefully, you can be assured of a long, efficient service life from the unit.

2.0 Description

Terra Universal's Exhaust Fume Hood frame is fabricated from powder-coated 16-gauge C.R. steel 1.5" x 3" tubing to ensure sturdy support for the exhaust fume hood. The frame also isolates the hood (and any vibrations the hood causes) from the work surface.

The hood features a 10" round discharge; this allows easy connection to your in-house exhaust system to provide the internal negative pressure necessary to safely remove fumes from the work surface. Other sizes are provided on a custom basis.

Side panels made of transparent PVC ensure that no fumes escape from beneath the hood while allowing full visibility from the side and eliminating the claustrophobic feeling operators often experience in an all-stainless steel enclosure.

The front of the unit features an easy-glide sliding shield (also made of transparent PVC mounted in an epoxy-coated aluminum frame). Because this front shield is counterweighted, it can be positioned at any place you desire to restrict or open up access to the work area. You can even modify the shield to accommodate protruding process equipment or an operator's arms. Extending it downwards effectively increases the negative pressure under the exhaust hood and reduces the chance of fumes escaping into the surrounding area. Because it is transparent, this shield affords full visibility of the entire work surface, even when fully extended. Extension below hood: 35" (fully extended); 8" (fully retracted)

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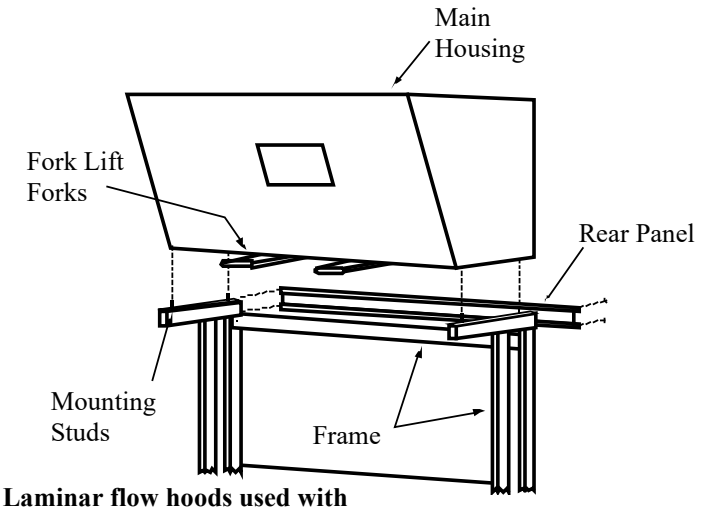
3.0 Installation

The Exhaust Fume Hood ships fully assembled, standard. However, it may ship in two parts at the customer's request or due to a custom order.

If the unit requires assembly upon receipt, the following procedure is to be used:

Items you will need:
- Forklift or other heavy-lift device (recommended).
- 100" of vertical clearance between assembly area and location of use.
- 120 VAC, 60 Hz or 240VAC 50/60Hz grounded power receptacle, as ordered.

1. Uncrate your Exhaust Fume Hood, checking to make sure that it has no visible damage incurred during shipment. If damage is found, contact the freight company to file a damage claim immediately.
2. Mount the frame onto the provided maneuvering casters.
3. Remove the rear panel for easier mounting of the main housing.
4. Using a forklift or other heavy-lifting device, lift the housing assembly above the frame. Adjust the frame so that it lines up with the main housing's attachment points (screws that are sticking out on top of the frame).
5. Carefully lower the main housing onto the frame, ensuring that all attachment points are properly aligned before joining the two parts.
6. Maneuver the assembly into its final operational location, ensuring that it is on a flat and level surface. Once situated in-place, remove the maneuvering casters and rest the frame upon the ground. Make sure that the unit is installed within reach of an appropriate power outlet.



Laminar flow hoods used with Terra's Wet Processing Stations feature cut-outs on rear panel to accommodate an exhaust flange.

NOTE

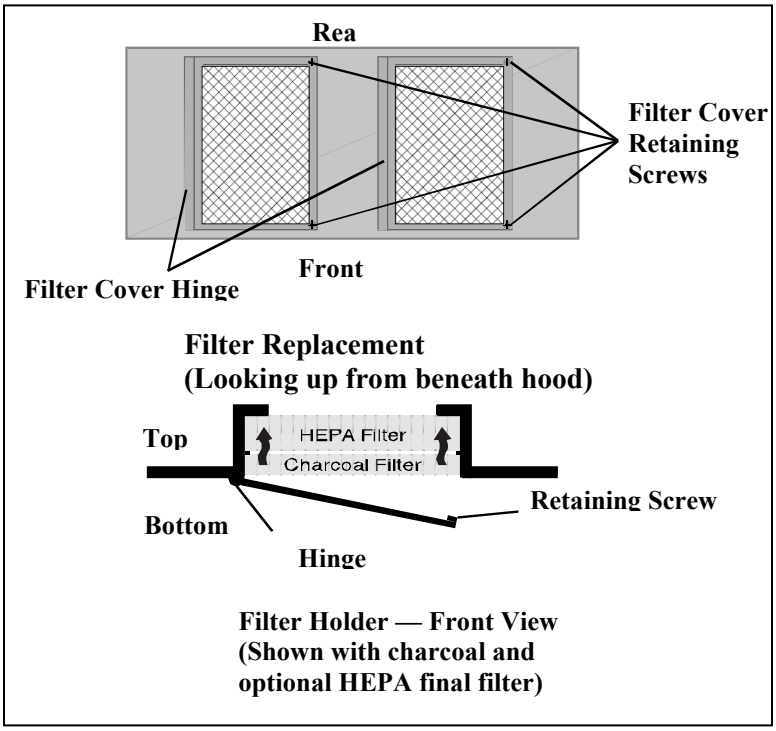
The maneuvering casters are to be used for INSTALLATION ONLY. Please remove the casters from the unit once you have moved it into its final position. Retain the casters for any future relocation needs.

7. Plug the unit in. The unit is now ready for use

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4.0 Operation

Based on the specifications provided for your Exhaust Fume Hoods, the only electric function installed in the unit is the Vapor-Proof Illuminator. All that is necessary to turn on the light is to plug the wire at the top left of the unit to a 120V or 240V outlet and flip the switch at the right side.



Filter Holder — Front View
(Shown with charcoal and optional HEPA final filter)

5.0 Maintenance

Terra Universal's Exhaust Fume Hoods should be cleaned with a mild, nonabrasive detergent and water. Special care should be taken not to damage the surface coatings of hoods made of Static Dissipative PVC; surface scratches can reduce the static dissipative properties of this material.

The 4' 40-watt fluorescent bulbs in the Vapor-Proof Illuminator can be replaced without the use of any tools. Simply unfasten the snaps holding the lens in place and carefully remove it. After turning the bulb 90 degrees, it should detach easily.

WARNING: Make sure that the unit is turned off and that the lights have cooled before attempting to replace a bulb.

6.0 Filter Replacement

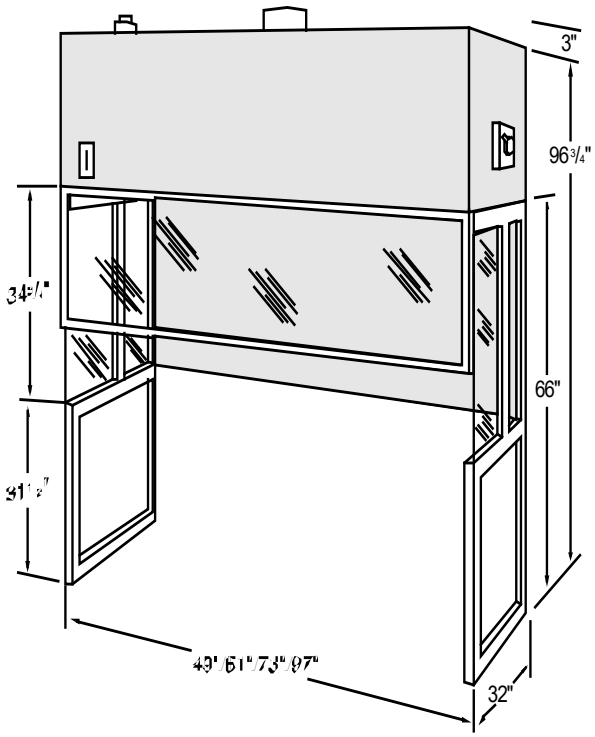
Charcoal and HEPA final filters can be replaced from beneath the hood (refer to illustrations):

1. Using a flat blade screw driver, loosen the two captive retaining screws that hold the filter cover in place. Be sure to support the cover as you remove the screws.
2. Once the screws are removed, allow the support cover to swing downward.

CAUTION: Use care to support the filters, which may fall loose once the cover is open. Carefully remove the charcoal filter and optional final HEPA filter, and reinstall replacement filters in the same orientation.

Replacement Filters:

Activated Charcoal	Cat. No. 1716-00A
HEPA Final Filter	Cat. No. 1681-02



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7.0 Specifications

General Construction:	The station is fabricated from welded 16-gauge Cold Rolled steel 1 1/2" x 3" frame tubing. Hood is available in powder-coated steel or stainless steel.
Dimensions:	100"H (including damper) x 49"/61"/73"/97"W x 32"D
Frame Finish:	Chip-resistant, white powder-coat, semigloss.
Standard color:	White. (Hood also available in stainless steel.)
Side Panels:	Transparent PVC

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Generally, customers can improve the chance of collecting on a freight claim by following these procedures: 1) formally requesting that the carrier inspect the shipment immediately upon suspecting damage or shortage to verify condition; 2) notifying the carrier upon discovery of concealed damage and requesting an inspection within 15 days of receipt, both in person or phone and following up via mail; 3) keeping the shipment as intact as possible, including retaining original packaging materials and keeping the product as close to the original receiving location as possible; 4) holding salvage for disposition by the carrier.

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Warranty Returns: All warranty returns must be authorized in advance by Terra Universal and approved under an RMA. Unless approved in advance for good reason, all returns must be in original condition, including all manuals, and must be packaged in original packaging materials. All returned goods are to be shipped to Terra Universal, freight prepaid at customer's expense. See Terra's "Policy and Procedure for Returned Goods."

Thank you for ordering from
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