

AIRCLEAN HORIZONTAL FLOW WORK STATION

IAC INDUSTRIES

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HFS

Assembly Instructions

REV. (042318P65)

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Freight Damage Claim:

Your unit must be inspected for visible and concealed as soon as it is received. If the unit is damaged in any way by the carrier, including concealed damage, or because of miss handling during shipment you must file a freight claim with the freight carrier immediately. Taking pictures of any damage when the unit is received will help in documenting the type and extent of the damage and in freight claim process itself.

General Description:

All IAC AirClean Laminar Flow equipment is built to the highest standards of quality and workmanship to meet and perform to the standards of set forth in the IAC AirClean Operation Manual. IAC suggests you read this manual completely prior to assembly, installation and operation of the unit.

Customer Service Contact:

If for any reason you experience a problem with you AirClean unit please contact IAC Industries' customer service at 1-800-989-1422 and ask for technical service for AirClean units.



WARNING:

ALL PARTICLE BOARD USED IN IAC INDUSTRIES PRODUCTS ARE SOURCED ONLY FROM VENDORS THAT ARE CARB ATCM PHASE 2 AND TSCA TITLE VI COMPLIANT WITH VALID CERTIFICATES. Drilling, Sawing,

Sanding or Machining Wood products can expose you to wood dust, a substance known to the state of California to cause cancer. Avoid inhaling dust generated from wood products or use a dust mask to other safeguards for personal protection. This product can expose you to chemicals, including formaldehyde, which is known to the state of California to cause cancer, and methanol, which is known to the state of California to cause birth defects or other reproductive harm. For more information please visit,

www.P65WARNINGS.CA.GOV/WOOD. COPY OF VENDOR CERTIFICATE AVAILABLE UPON REQUEST.

Unpacking and Installation:

All IAC Industries AirClean units are packaged to factory specifications which are approved by common carriers and their insurance companies. Each AirClean unit is packed to stabilize movement during transit and is protected on all sides by a wooden crate structure. Caution must be exercised when unpacking the unit.

If your unit appears to be damaged during transit please refer to the "Freight Damage Claim" section on the previous page.

Removal of HFS AirClean units will take as many as four people depending on how the unit is to be unpacked and then move to its final location. Care must be taken during the transport, assembly and installation processes to avoid damaging the unit, causing injury to the personnel or damaging the surrounding area. IAC Industries is not responsible for injuries to personnel and/or damage to the unit and/or the surrounding areas that may occur during the transport, assembly and installation processes. If you have any questions regarding the assembly and installation processes please contact IAC Industries customer service and ask for technical assistance for AirClean Units.

When removing and installing your IAC Air Clean unit please observe the following Guidelines:

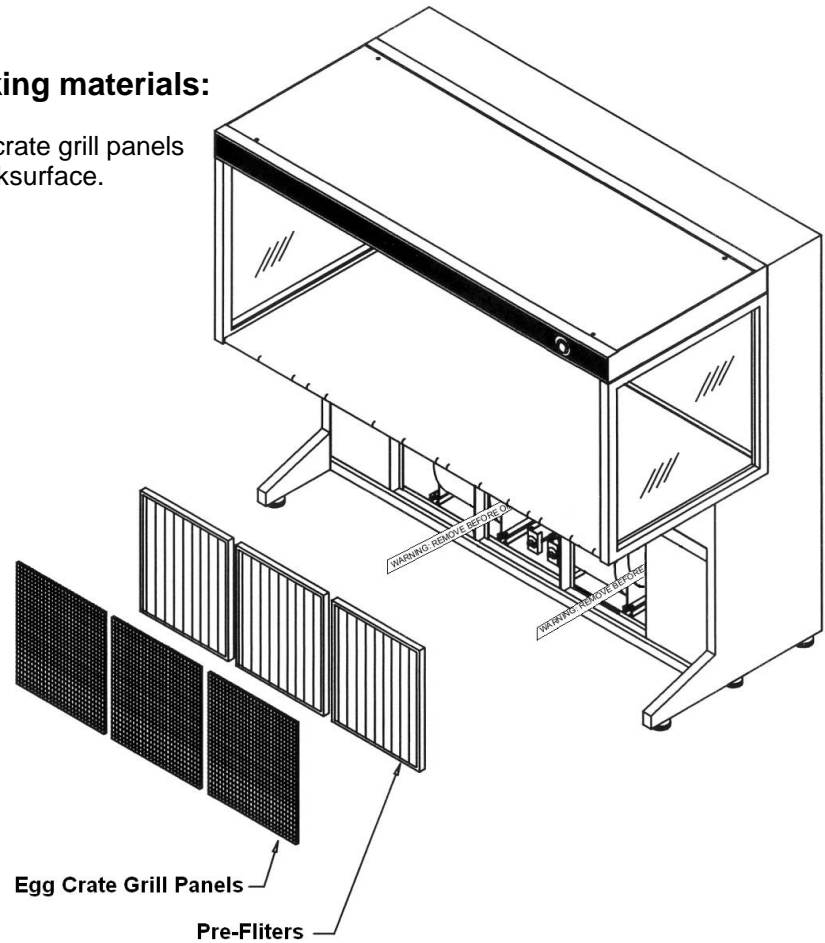
1. Carefully remove the outer packaging materials taking care not to drop items onto the unit.
2. Carefully unload the unit from the shipping pallet making sure it is not dropped. This will most likely take 4 or more people.
3. If the unit must be transported to its final location be sure to move it on furniture moving type equipment.
4. Once the unit is in its final location you must remove all stabilization packing materials **BEFORE IT IS CONNECTED TO THE POWER SOURCE**. See page 4 for details.
5. After installation of the unit it must be leveled to operate properly. Use the leveling glides found at each corner and the middle of the base to level the unit. Leveling the unit correctly will increase blower efficiency and help eliminate vibration.
3. Vacuum the entire filter grille with a nozzle and clean the interior and worksurface of the unit using a clean lint free cloth and the cleaner of your choice such as rubbing alcohol.
4. For light tube installation instructions see pages 5 & 6. When light tubes are installed plug the AirClean unit's power cord into the power source. This unit requires a minimum 115VAC 20 AMP 60HZ power source.
6. The On/OFF switches are located at the top right hand corner of the light hood assembly. Turn the motor and light hood sub-assembly switched on. The switches should light to indicate the power is on. The motor will take a few minutes to get up to full speed. The light tube should illuminate immediately.

Note:

Each unit has been tested at the factory and set to the optimal airflow specifications. Shipping vibration, elevation changes, climate changes etc. may effect the operation of the unit. IAC recommends that the airflow levels be checked by the customer to insure they have been maintained during transport and set-up. Refer to the Operation Manual for instructions on adjusting the unit airflow.

Removing all stabilization packing materials:

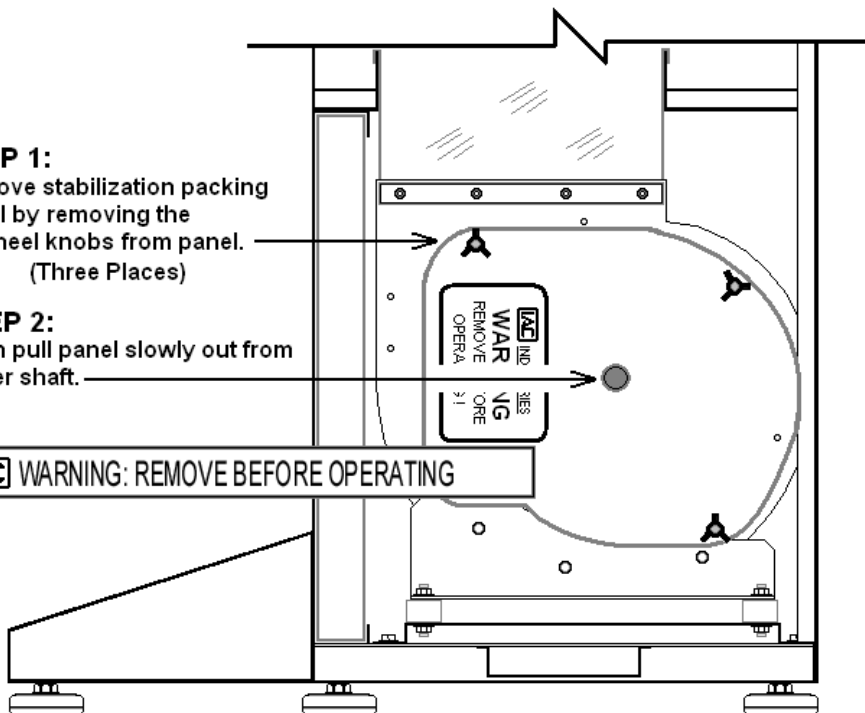
This will require the removal of the egg-crate grill panels and the pre-filters located under the worksurface. When all stabilization-packing materials have been removed, replace the pre-filters and the egg crate grill panels.



STEP 1:
Remove stabilization packing panel by removing the tri-wheel knobs from panel.
(Three Places)

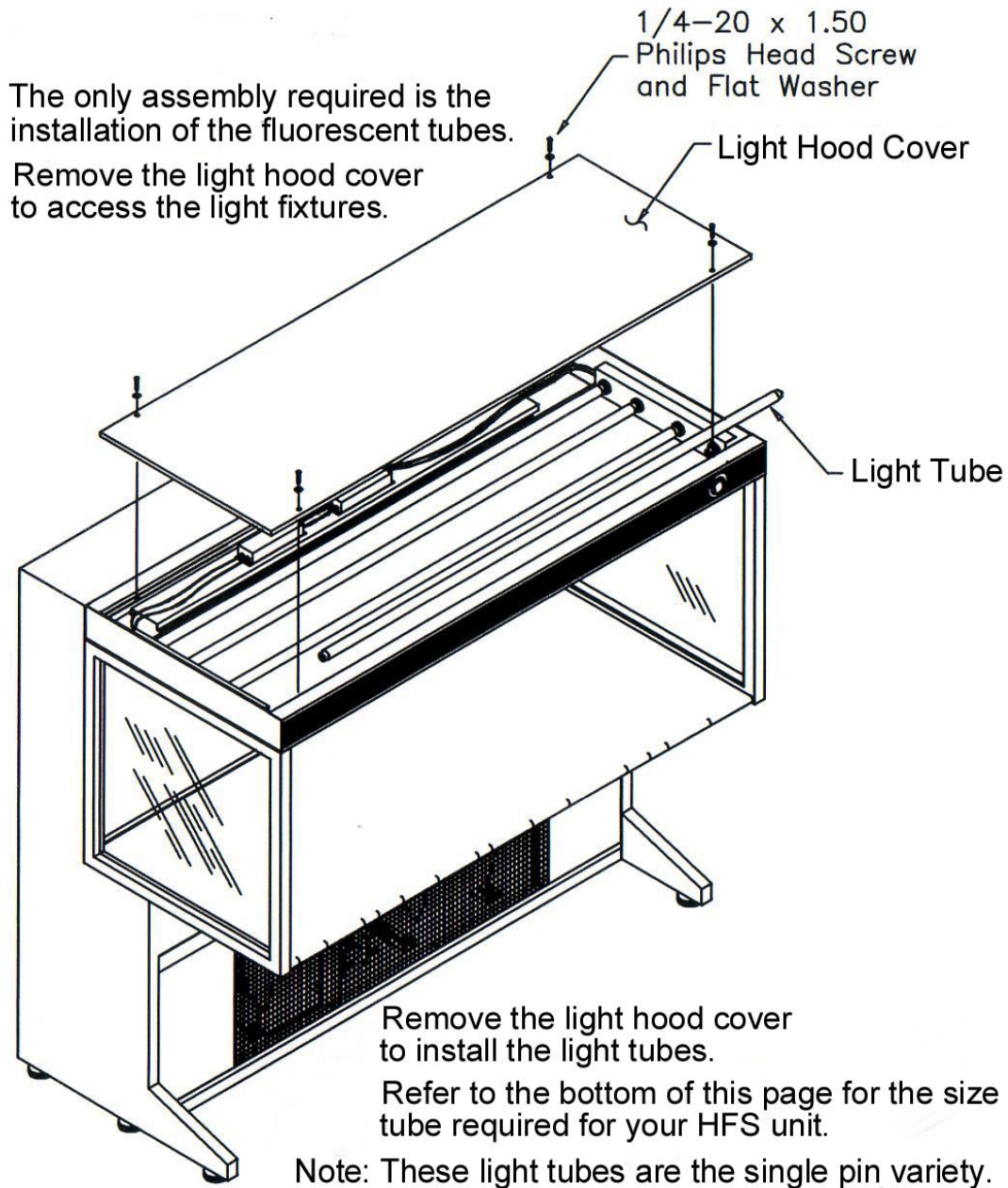
STEP 2:
Then pull panel slowly out from motor shaft.

IAC WARNING: REMOVE BEFORE OPERATING



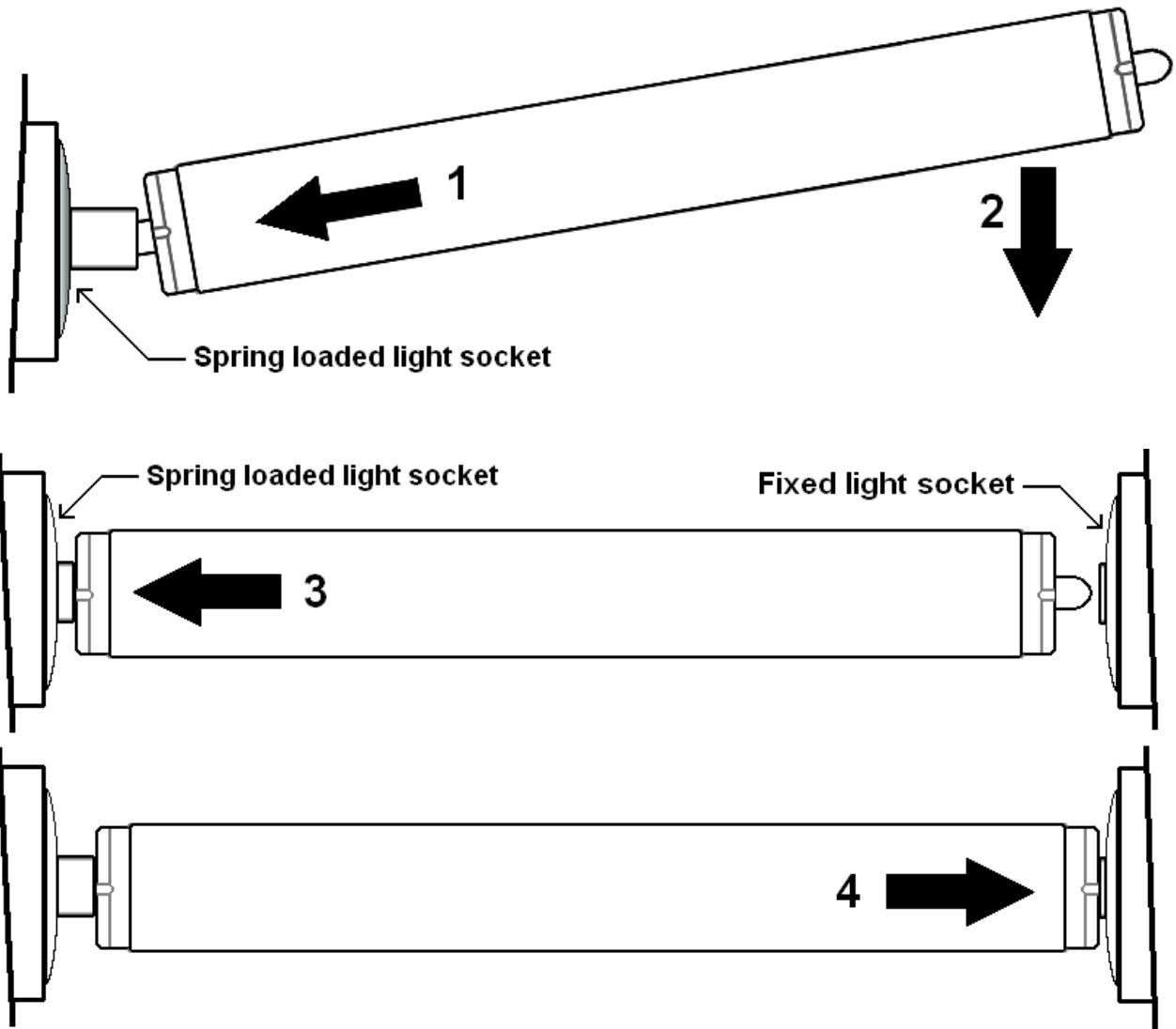
Installation of Light Tubes:

Please Note: It is recommended that at least two persons be used to remove / reinstall light hood cover.



48"	HFS Units	use	F48T12	CW Tubes
60"	HFS Units	use	F60T12	CW Tubes
72"	HFS Units	use	F72T12	CW Tubes
96"	HFS Units	use	F96T12	CW Tubes

Installation of Light Tubes cont..

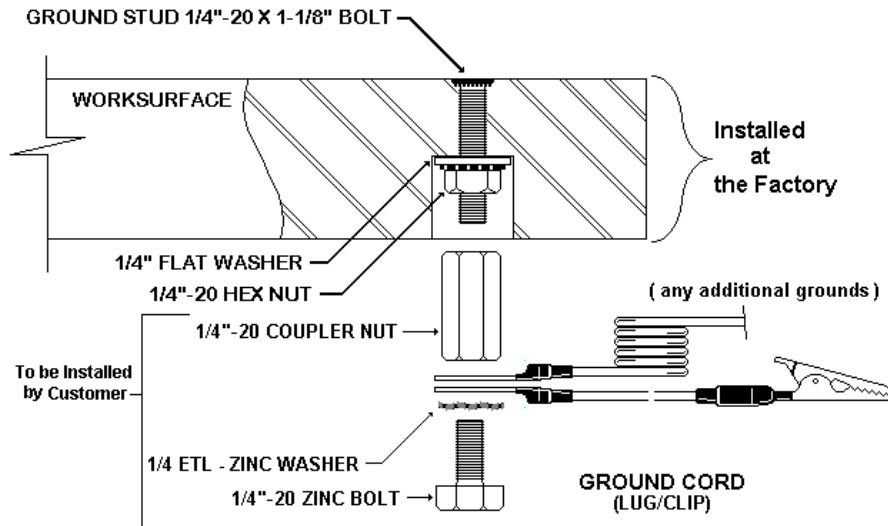


After installing light tubes and verifying that they work correctly. Reinstall light hood cover using hardware removed 1/4-20 x 1.50 philips head screw and 1/4 flat washer.

ESD Ground Attachment

Hardware Kit HWR014

ESD refers to the OPTIONAL static dissipative laminate used on some benches. The laminate has a conductive material that comes in contact with the factory installed grounding bolts in the worksurface. The ESD grounding kit, including the 10 ft grounding wire must be properly grounded to your facility earth ground. (See below for grounding cautions!) The eyelet slips over the bolt end and the alligator clip attaches to ground. When tested with a meg ohm meter the ground bolts should measure $1 (1 \times 10^6)$ to $1000 (1 \times 10^9)$ in accordance with EOS/ESD standards prescribed in EOS/ESD document S4.1-1990 Worksurface-Resistive Characterization. For specific details on grounding the bench consult EOS/ESD document S6.1-1991 Grounding - Recommended Practice.



GROUNDING CAUTIONS:

- 1.) Ground each bench individually to ground, NEVER to each other in a continuous daisy chain.
- 2.) ISOLATED ground receptacles should not be used to derive an ESD ground.
- 3.) The green wire in a standard wall duplex can be used if it has been absolutely determined that the green wire is attached to earth ground in your facility, thereby providing a real earth ground.
- 4.) Each component of an ESD station should be connected to the same common ground point. In other words, use only ONE of the ground bolts as a path to ground. There are 2 installed for convenience only, or in the event you purchase a continuous resistance monitor.
- 5.) DON'T use power tools to install the nuts for the grounding kit. HAND TIGHTEN ONLY. If you attempt to spin the ground bolt, the serrated teeth under the head of the bolt might strip the thin conductive layer.

NOTE: If benches are moved to another location, the ground bolts in the Worksurfaces should be re-tested. Refer to EOS/ESD document S4.1-1990 Worksurface-Resistive Characterization for proper testing methods. If ground has been distributed between the bolt and the static dissipative laminate, DO NOT OVER TIGHTEN ground bolts to achieve proper ground. If ground cannot be reestablished loosen nuts underneath bolt and remove ground bolt from hole. It may be necessary to hold the threads of the bolt with a small screwdriver in order to stabilize it to remove the nuts. Paint a thin layer of CONDUCTIVE ADHESIVE or CONDUCTIVE PAINT on the small "ledge" of conductive laminate where the bolt head rests and underneath THE HEAD of the ground bolt. Set bolt back into the while liquid is still wet and test ground immediately. At the point ground is reestablished, let the liquid dry before reattaching the ground wire.