



Equipment Type:	Fume Hood
Model:	FUME HOOD
Electrical Requirements:	110V
Frequency:	60 Hz
Manual Revision Date:	June 21, 2018
Air Flow	1175-1470 cfm
Sound Level	65 dBA

Please read this instruction manual carefully and follow all installation, operating and safety guidelines.

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WARRANTY

Terms and Conditions applying to all PACE Technologies Products

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PACE Technologies Products are warranted for two years from the purchase date to be free from defects in material and workmanship under correct use, normal operating conditions, and proper application. PACE Technologies obligation under this warranty shall be limited to the repair or exchange, at PACE Technologies option, of any PACE Technologies Product or part which proves to be defective as provided herein. PACE Technologies reserves the right to either inspect the product at Buyer's location or require it to be returned to the factory for inspection. Buyer is responsible for freight to and from factory on all warranty claims. The above warranty does not extend to goods damaged or subjected to accident, abuse or misuse after release from PACE Technologies warehouse, nor goods altered or repaired by anyone other than specifically authorized PACE Technologies representatives. PACE Technologies shall not in any way be responsible for the consequences of any alteration, modification or misuse unless previously approved in writing by an officer of PACE Technologies. Note: Corrosion is considered a maintenance issue and not a warranty issue.

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2. LIABILITY CAP:

PACE Technologies maximum aggregate liability for loss and damage arising under, resulting from or in connection with the supply or use of the Equipment and Consumables provided under this purchase, or from the performance or breach of any obligation (s) imposed hereunder, whether such liability arises from any one or more claims or actions for breach of contract, tort, (including negligence), delayed completion, warranty, indemnity, strict liability or otherwise, unless otherwise limited by the terms hereof, shall be limited to one hundred percent (100%) of the purchase price.

3. DELIVERY:

Customer assumes and shall bear the risk of all loss or damage to the Products from every cause whatsoever, whether or not insured, and title to such Products shall pass to Customer upon PACE Technologies delivery of the Products to the common carrier of Pace Technologies choice, or the carrier specified in writing by Customer, for shipment to Customer. Any claims for breakage, loss, delay, or damage shall be made to the carrier by the Customer and Pace Technologies will render customer reasonable assistance in prosecuting such claims.

4. ACCEPTANCE:

Customer shall inspect the Products promptly upon receipt of delivery. Unless customer objects in writing within thirty (30) business days thereafter, customer shall be deemed to have accepted the Products. All claims for damages, errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

5. PAYMENT:

Customer agrees to provide timely payment for the Products in accordance with the terms of payment set forth on the reverse side hereof or in any proposal submitted herewith. If any payment is not paid on or before its due date, Customer shall pay interest on such late payment from the due date until paid at the lesser of 12% per annum or the maximum rate allowed by law.

6. DEFAULT:

If Buyer is in default (including, but not limited to, the failure by Buyer to pay all amounts due and payable to Seller) under the work or purchase order or any other agreement between Buyer and Seller, Buyer's rights under the warranty shall be suspended during any period of such default and the original warranty period will not be extended beyond its original expiration date despite such suspension of warranty rights.

7. MISCELLANEOUS PROVISIONS:

This agreement has been made in and shall be governed by the laws of the State of Arizona. These terms and conditions and the description of the Products on the reverse side hereof or in any proposal submitted herewith constitute the entire agreement and understanding of the parties with respect to this sale and supersede all prior and contemporaneous agreements or understandings, inducements or representations, expressed or implied, written or oral, between the parties with respect hereto. Any term or provision of this Agreement may be amended, and any observance of any term of this Agreement may be waived, only by a writing signed by the party to be bounds. The waiver by a party of any breach shall not be deemed to constitute a waiver of any other breach. Should suit be brought on this Agreement, the prevailing party shall be entitled to recover its reasonable attorneys' fees and other costs of suit including costs and attorneys' fees incurred on appeal or in collection of any judgment., errors, or shortage in Products delivered shall be made by Customer in writing within such five (5) business day period. Failure to make any claim timely shall constitute acceptance of the Products.

8. RESTOCKING FEE:

All Returns are subject to a restocking charge equal to 15% (fifteen percent) of the Invoice, unless the Goods are proved to be non-conformed by PACE Technologies.

1.0 Product Description

1.1 General Description



The FUME HOOD is a ducted working cabinet for laboratory use designed to safely remove harmful fumes from the lab space. It includes water, nitrogen and compressed connections as well as a built in sink with drain. There is also storage space included under the hood for efficient use of space.

1.2 Technical Specifications

Fan Speed:	1450 rpm
Air Flow:	1175-1470 cfm
Static Pressure:	0.20 in. w.g.
Sound Level:	65dBA
Power:	110V/ 60 Hz
Wattage:	300W
Weight:	585lbs (266kg)
Lighting Type:	LED
Bulb Wattage:	20W 12V
Overall Dimensions (W x D x H):	47 x 33 x 100 inches 1194 x 838 x 2540 mm
Chamber Dimensions (W x D x H):	36 x 24 x 44 inches 914 x 610 x 1118 mm
Stand Dimensions (W x D x H):	47 x 28.75 x 32.25 inches 1194 x 705 x 819 mm
Cabinet Dimensions (W x D x H):	42 x 12.5 26.25 inches 1067 x 318 x 667 mm

1.3 Features and Benefits

The FUME HOOD is equipped with a powerful 1450 rpm extraction fan. This allows the FUME HOOD to move harmful fumes from the lab quickly and with minimal noise (only 65 dBA max). With a max air flow of 1470 cfm, there is no need to worry about harmful fumes escaping the hood.

The Control Panel is easy to read and use. It contains all the needed information for safe operation.

There are three installed control knobs that can be directly connected into existing water, compressed air, and nitrogen hookups. The knobs are labeled for clarity and are simple to use.

Water is easily drained through the included sink when connected to an existing drain line.



Note: Installation of the FUME HOOD base should be on a flat sturdy surface, with easy access to drain, air or gas, water and electrical connections.

2.0 Unpacking, Shipping and Installation

2.1 Unpacking

Unit is delivered in a box. Unpack and check for completeness of parts.

Measures WxHxD: 47 x 33 x 100 inches

Weight: 585 lbs

2.2 Shipping

Use pallet jack when moving box



! Caution: Heavy sensitive electronic equipment. Take care to avoid bodily injury and damage to the unit.

2.3 Installation



Install unit carefully! Improper installation voids warranty.

The **FUME HOOD** should be placed on a flat stable surface.
Requires air, water supply, drain and electrical connections.

Before installing unit, ensure access to an acceptable electrical outlet is present. Air and water hook ups are also recommended. Nitrogen or other gas lines are also able to be connected to the FUME HOOD.

2.3.1 Support Base Installation



Install unit carefully! Improper installation voids warranty.

The FUME HOOD must be installed on the included support base.

The support base needs to be installed on a flat sturdy surface. If the floor is slightly uneven the feet of the support base can be slightly adjusted using a wrench until level.

2.3.2 Main Fume Hood Unit Installation



Install unit carefully! Improper installation voids warranty.



Install the FUME HOOD unit onto the support base once section 2.3.1 is fully completed.

Use a team to lift the unit onto the support base. Ensure proper alignment of the edges of the support base and FUME HOOD. The back of the unit has holes that allow the use of self tapping screws to secure the FUME HOOD to the support base. The front of the FUME HOOD unit does not sit flush with the support frame.

The FUME HOOD sits on the support base. It is recommended to use some strong adhesive to further secure the unit to the support base.

2.3 Installation (Cont.)

2.3.3 Counterweight Installation

- ! Install unit carefully! Improper installation voids warranty.

Ensure glass is in the DOWN position before installing the counter weights

To install the counterweights on the unit, gain access to the top of the FUME HOOD. They are installed on the left and right sides of the hood.

Locate the white belt with the loop on the end. Use the carabiner to hook this loop to the eyelet on the white counter balance box. Then ensure the belt tracks over the guide wheel.

Once connected find the rail slot on the counter weight box back. Slide this into the corresponding rail on the inside of the FUME HOOD. . (It may be easiest to remove weights before and then replace them once attached.)

Repeat steps for the other side.

Test glass for smooth operation.

2.3.4 Duct Fan Connection

- ! Install unit carefully! Improper installation voids warranty. Improper installation of duct lines could cause poisonous gasses to escape unit and cause serious injury.

Use a certified professional when installing duct work. Proper connections are needed to ensure the FUME HOOD is operating correctly. Improper installation of duct lines could result in fumes escaping the unit and polluting the area outside the FUME HOOD.

2.3.5 Plumbing Connection

- ! Install unit carefully! Improper installation voids warranty.

Refer to included diagram inside pluming component bag.

3.0 Safety Guidelines

3.1 Warning Sign

- ! This sign points to special safety features on the machine.

3.2 Safety Precautions

- ! Careful attention to this instruction manual and the recommended safety guidelines is essential for the safe operation of the **FUME HOOD**.
- ! Proper operator training is required for operation of the **FUME HOOD**. Any unauthorized mechanical or electrical change, as well as improper operation, voids all warranty claims. All service issues need to be reported to the manufacturer / supplier.
- ! Operate unit as specified in this manual.
- ! Disconnect power before servicing unit.
- ! Ensure Air, Gas, and Water lines are turned off when not in use
- ! Keep hands clear of the glass when moving up and down

3.3 Emergency Statement

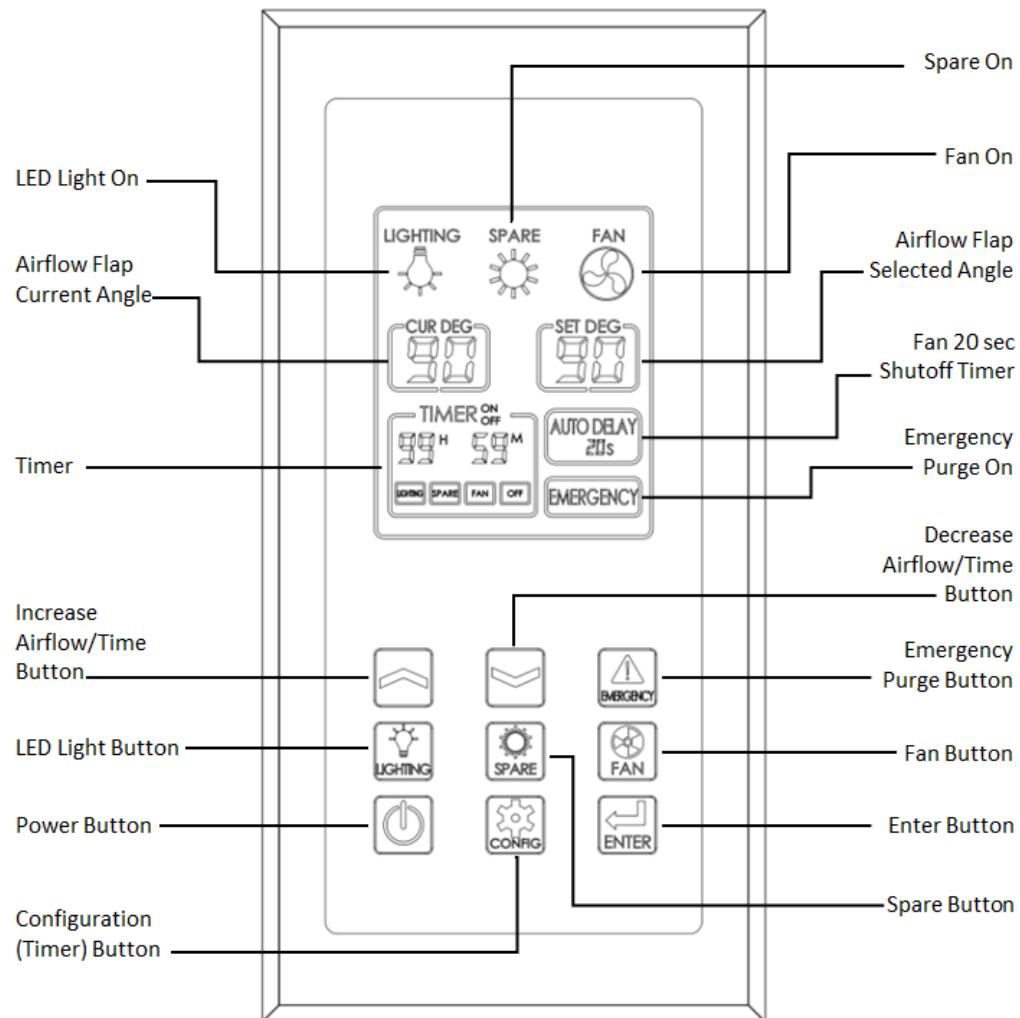
The FUME HOOD is designed to remove harmful gases and fumes produced from chemicals or other materials. Always follow proper operational guidelines and avoid contact with moving parts. Seek appropriate medical care for injuries.

4.0 Start-up and Operation

4.1 General

The **FUME HOOD** is a ventilation unit that can be used in a laboratory to store chemicals as well as ventilate harmful fumes produced from chemicals or other materials.

4.2 FUME HOOD Control Panel



4.0 Start-up and Operation

4.3 Power

Press and hold the Power button for 1 second in order to turn on/off the control panel.

NOTE: If the control panel is turned off while the fan motor is operating, the control panel will remain energized until the airflow flap has closed completely.

4.4 Spare

The Spare feature is a spare electrical port in the control panel that allows for the inclusion of other electrical devices if desired.

4.5 Emergency Purge

The Emergency Purge feature will override the selected airflow setpoint and will increase the airflow to the maximum purge in case of an emergency, e.g. spilled chemicals inside the fume hood.

4.6 Timer

Press the Configuration button in order to access the timer feature.

ON-Timer

Once the timer feature is accessed, the word ON will be displayed on the screen, on the right side of the word TIMER. The Hour digits will be blinking. Press the Up/Down arrow buttons to increase/decrease the number of hours, then press the Configuration button one more time to enter the number of minutes. The LED light, and Spare features can also be selected to turn on together with the fan. Press the ENTER button to accept and exit the timer feature.

OFF-Timer

Press the Configuration button multiple times until the word OFF is displayed on the right side of the word TIMER. Enter the number of hours and/or minutes desired, together with any other features, and press the ENTER button to accept and exit the timer feature. **NOTE:** By pressing the Fan button while in the OFF-Timer feature, the word OFF will appear inside the TIMER block on the screen. This means that the fume hood will turn off altogether at the end of the countdown.

5.0 Maintenance

5.1 Introduction

The FUME HOOD requires very minimal maintenance. However, to increase the life of the FUME HOOD, it is suggested that the unit be cleaned periodically to avoid damage to the surface.

5.2 Cleaning outside cabinet

The cabinet should be cleaned occasionally with a moistened cloth. Do not use any chemicals or cleaning abrasives.