



*MANUFACTURING HIGH QUALITY
ENVIRONMENTAL ABATEMENT EQUIPMENT
SINCE 1988*

PERO_x 1600 PAC
Operations and Maintenance Manual



WARNING



**This equipment to be operated only by trained personnel.
Do not use with combustible or explosive material.
Do not expose to water or rain.
Connect only to grounded outlet with GFCI device.
Disconnect power for cleaning and servicing.
High intensity Ultraviolet light. Avoid eye and skin exposure.
Do not operate without coverings. Do not look directly at UV light source.
Wear UV eye protection.**



Safety Warning Instructions: Read and save these instructions

- This equipment to be operated only by trained personnel.
- Do not use with combustible or explosive material.
- Do not expose to water or rain.
- Connect only to grounded outlet with GFCI device.
- Disconnect power for cleaning and servicing.
- Do not operate if cord or plug is damaged. Contact a authorized service facility for examination and/or repair.
- Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Arrange cord away from traffic areas and where it is not a tripping hazard.
- Disconnect power for cleaning and servicing.
- High intensity Ultraviolet light inside. Avoid eye and skin exposure.
- Do not look directly at UV light source. Wear UV eye protection.
- Do not operate without coverings.

Avertissement de sécurité Instructions: LIRE ET CONSERVER CES INSTRUCTIONS

- Cet équipement doit être utilisé que par un personnel formé.
- Ne pas utiliser avec des matières combustibles ou explosives.
- Ne pas exposer à l'eau ou à la pluie.
- Connectez uniquement à une prise mise à la terre avec un dispositif GFCI.
- Coupez l'alimentation électrique pour le nettoyage et l'entretien.
- Ne pas utiliser si le cordon ou la fiche est endommagé. Contactez un centre de service autorisé pour examen et / ou réparation.
- Ne pas passer le cordon sous un tapis. Ne pas couvrir le cordon avec des carpettes, les coureurs, ou revêtements similaires. Éloigner le cordon des endroits passants et où il n'est pas un risque de déclenchement.
- Coupez l'alimentation électrique pour le nettoyage et l'entretien.
- Haute intensité de lumière ultraviolette à l'intérieur. Évitez les yeux et l'exposition de la peau.
- Ne pas regarder directement à la source de lumière UV. Porter des lunettes de protection UV.
- Ne pas faire fonctionner sans revêtement.

PEROx 1600 Module

SPECIFICATIONS

Power : 115 VAC/60Hz/ 4.5 Amps

Controls: ON-OFF-TIMER Switch, Hour Meter, 0-12 hr timer;
LOW-MED-HIGH OUTPUT
selector switch

Purifier: x2 - *Ionized Hydro-Peroxide* generators

Airflow: 200-1600 CFM From PAC Machine

Pre-filter: Pleated Filter, MERV-11 efficiency

Housing: Powder coated Aluminum, antique white

Weight with Filters: 24 lbs.

Dimensions: 26" x20" x 8"

Operating environment: Non-hazardous, 120° F maximum temperature

ORDERING INFO.....PART

PEROx 1600PAC Module.....	OAHPG1600
Primary/Secondary Filter	OPF2418
Quick Clamp, 10"	QCW12
Flexible Duct, 10"x25'	OAD10
5" Replacement Generator Cell.....	EHPG-2
9" Replacement Generator Cell.....	EHPG-3

Installation of PEROx1200PAC module

PEROx module has to be attached to OmniAire 1600PAC machine as described below. THE PEROX UNIT'S PLEATED FILTER MUST BE ALWAYS IN PLACE WHEN RUNNING.

- 1) Remove 4 thumb screws and lift protection screen of the exhaust end of OmniAire1200PAC machine. Remove any filter except for HEPA.
- 2) Place the PEROx unit in the place of screen, control panels facing the same direction. With pleated filter removed, reach the mating flanges of the units and install 3 clips to secure units in place, tighten well.
- 3) Install pleated filter to block any UV radiation from the hydro-peroxide generator and attaché the protective screen with 4 screws to prevent accidental removal.

OPERATION of PEROx 1600PAC

The PEROx 1600PAC purifies air passing through the unit and disperses free oxidizer plasma to purify surrounding air and surfaces. The oxidizer plasma, generated from O₂ and humidity in the air, remains active for about 15 minutes, then it returns to O₂ and humidity. Generation of oxidizer plasma could be set at LOW/MED/HIGH, depending on the size of the room and the sanitizing requirements. The air-flow through the PEROx unit is set by OmniAire 1600PAC speed controller between 200 to 1600 CFM to sanitize small to large areas .

EXAMPLES:

For 12 ACH in occupied room, 20 ft. x 15 ft. x 10 ft. (3000 cubic ft.), the generator OUTPUT should be set at LOW and the flow control at low end on the speed controller.

For a 6,000 cu. ft. space, setting could stay LOW for a low levels of contamination, but the air flow should be increased to close to full speed. To remove smell of cleaning chemicals and any odors, switch the output to MED, till the odor is removed.

When cleaning patient's room, the output could be turned on LOW or MED during the process and on HIGH for 15 to 30 minutes, when unoccupied.

THE PEROx UNIT MUST OPERATE WITH PLEATED FILTERS INSTALLED TO PRECENT UV RADIATION OUTSIDE THE UNIT.. THE PEROX OXIDIZER PLASMA IS SAFE FOR HUMAN EXPOSURE, BUT EVERYBODY/S COMFORT LEVEL IS DIFFERENT.

OPERATING INSTRUCTIONS

- 1) Turn the OmniAire HEPA machine ON and set the desired airflow. The UVGI lights inside the OmniAire machine can be off or on.
- 2) Select the OUTPUT level, LOW/MED/HIGH and the operation mode with ON/OFF/TIMER selector switch. In ON position, the unit will run continuously, while in TIMER position, the running time can be set by a Timer for 0 to 12 hours. The blue LED turns on when the generator is operating and the running time is measured by the Hour meter.

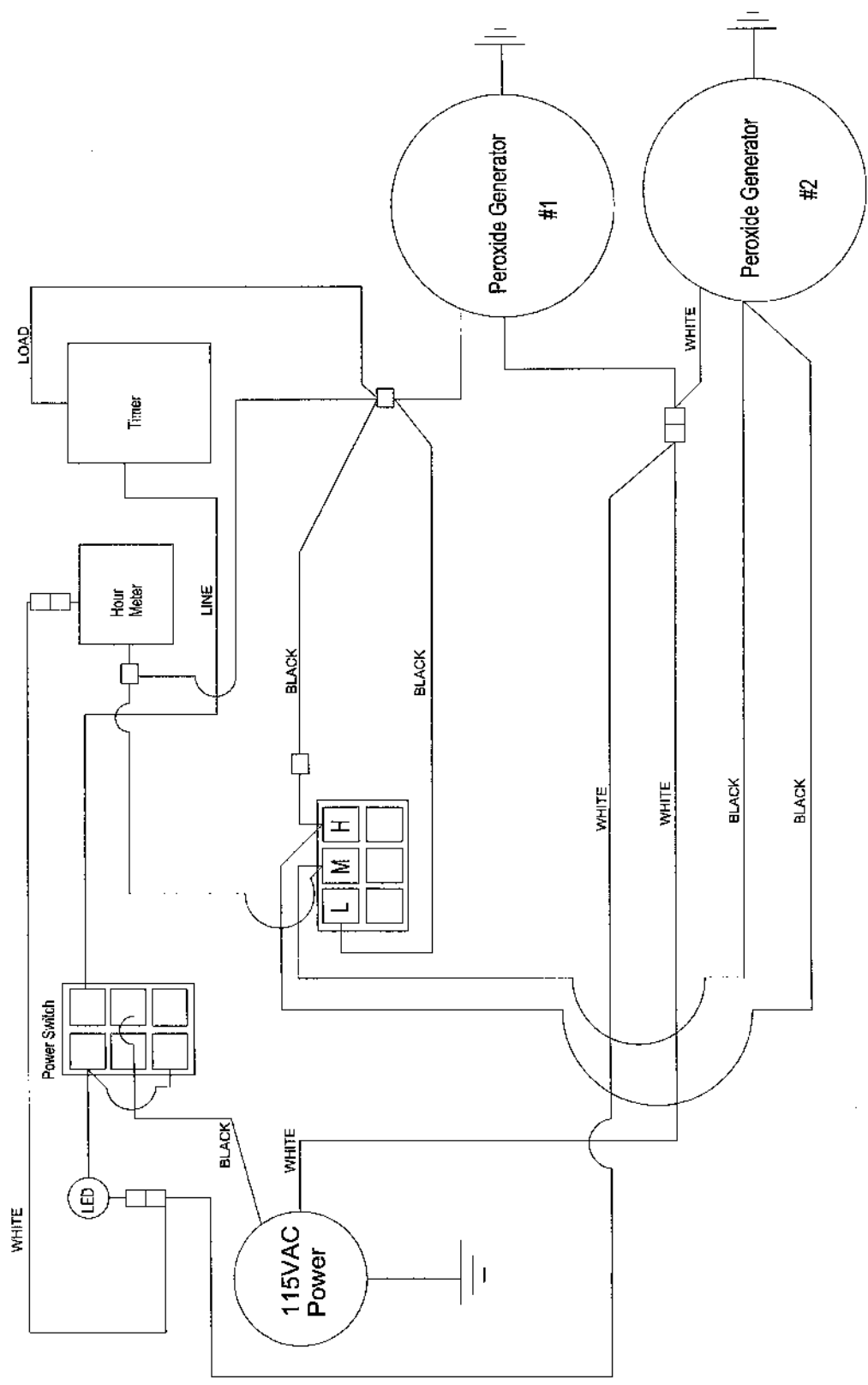
RECIEVING INSTRUCTIONS

Unpacking: Visually inspect the unit for damage. Ensure that the pleated filters have not been dislodged during shipping.

REPLACEMENT OF the GENERATOR CELL

The generator cell's output slowly degrades and should be replaced after 25,000 hours of running. To replace the cell, uninstall the PEROx module from the OmniAire machine.:

- 1) Remove the control panel and unplug the power supply connector.
- 2) Remove 4 screws and remove whole generator from the unit.
- 3) Follow the instructions included with the replacement cell.



Ommftec Design Inc. PEROX Module Wiring Diagram 5/27/2014



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Omnitec Design, Inc.

4640 Campus Place, Suite 110 Mukilteo, WA 98275

Visit us @ www.omnitecdesign.com

Office: 425-290-3922