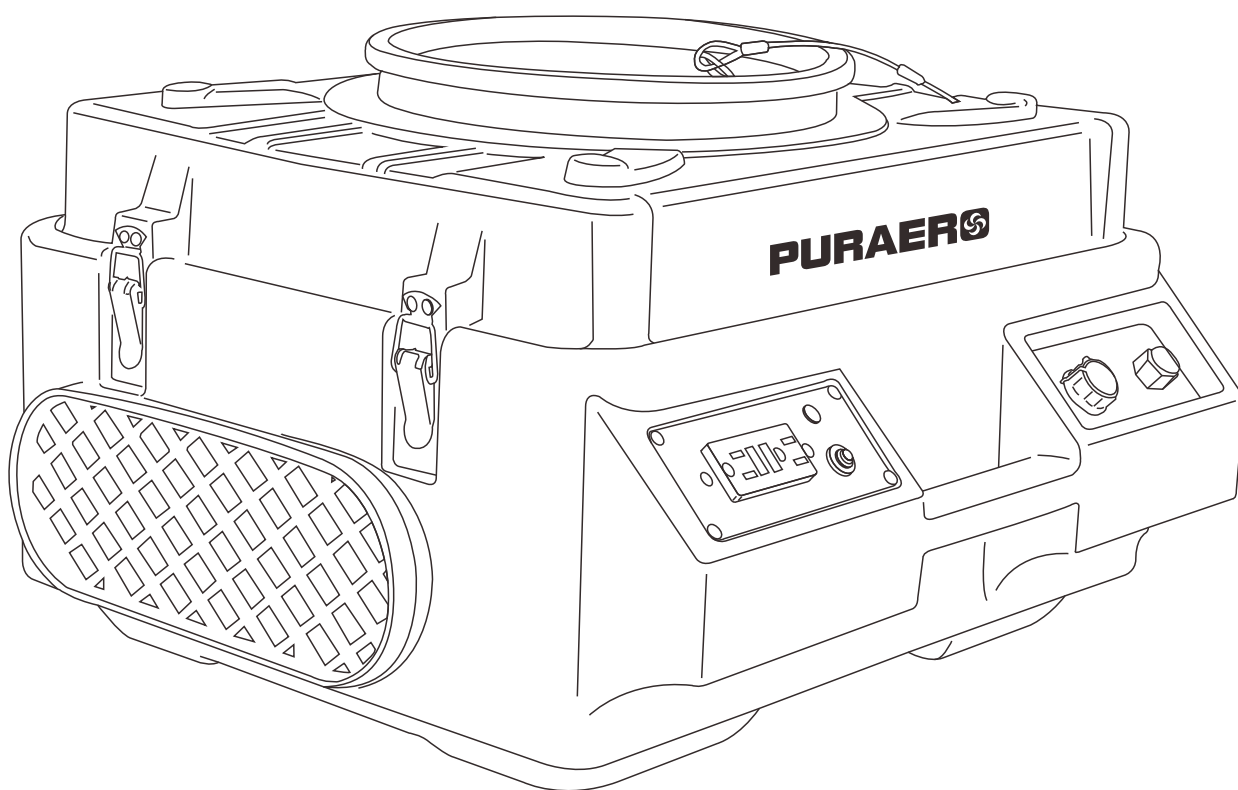


# PURAERO

COMMERCIAL HEPA AIR SCRUBBER



**READ AND SAVE THESE INSTRUCTIONS  
OWNERS MANUAL**

## Air Scrubber

The PA-600-HAS is a compact, portable high performance air scrubber. The PA-600-HAS features a 22"x 24" footprint and stands only 14" tall. Weighing less than 35lbs and featuring a molded handle and stackable design, it's easy to carry, transport, and store.

For maximum flexibility, the PA-600-HAS features variable airflow and can be operated vertically or horizontally. It's designed to accept 16" inlet flex duct and 10" lay flat outlet duct for a variety of operating set-up options.

PA-600-HAS delivers a maximum 675 CFM of HEPA filtered air, while drawing less than two amps of power. This makes PA-600-HAS the perfect for a variety of remediation projects where space and power are at a premium. A single PA-600-HAS is capable of providing 4 air changes per hour (the recommended minimum) on a 7500 cubic foot room (more than a 30' x 30' x 8').

It's 2-stage filter design-with documented true HEPA filtration performance-will remove hazardous particles from the air and, with the addition of an optional carbon/potassium permanganate filter, will adsorb a wide range of odors and gases.

### The PA-600-HAS Air Scrubber Features:

- **Less than 2 amp power draw**
- **Compact design**
- **Variable speed flow**
- **Multiple ducting options**
- **Tough, roto-molded housing**
- **Optional carbon filter**

### SPECIFICATIONS

MODEL	PA-600-HAS
POWER SUPPLY	115V/60Hz
RATED CURRENT	2.2A
AIR VOLUME	650CFM
SPEED	VARIABLE
HOUSING CONSTRUCTION	ROTO-MOLDED POLYETHYLENE
FILTERS	2-STAGE CARBON AND HEPA
BODY CONSTRUCTION	ROTO-MOLDED POLYETHYLENE
WARRANTY	1-YEAR PARTS AND LABOR
POWER CORD LENGTH	25 FT
GROSS WEIGHT	35 lbs
PACKING SIZE	23 x 23 x 19 in.

# Important Safety Instructions

CAUTION: Risk of electric shock. Can cause injury or death.

To reduce the risk of electric shock:

- Do not expose to standing water or rain
- Connect to GFCI outlet
- Do not use an extension cord
- Unplug fan before servicing or changing filters.
- Do not block air intake or outlet. One foot minimum distance to obstructions.

Indoor use only

- Do not use as stool or bench
- Do not operate with damaged cord or plug.
- Do not run cord under carpeting.
- Do not cover cord with throw rugs, runners, or similar coverings.
- Do not route cord under furniture or appliances. Arrange cord away from traffic area and where it will not be tripped over.

## Operation

### Transporting the PA-600-HAS

The air scrubber should be transported vertically or horizontally on the appropriate feet located on the bottom of the unit or opposite the handle.

### Electrical Requirements

The PURAERO PA-600-HAS System can be plugged into a grounded 15 Amp circuit. It draws about 2 Amps with clean filters and no ducting. The amp draw will decrease slightly with added ducting and as the filters load with particulate. Due to the presence of GFCI receptacle, the PA-600-HAS must be plugged directly into a wall outlet. No extension cords should be used.

## Air Ducting

### Inlet Ducting

Occasionally the area to be filtered is difficult to access and/or the unit cannot be located in the area. In such cases, the air can be ducted to the unit's inlet. A round 16" diameter flexible duct can be attached to the unit inlet. It connects by placing the wire in the duct over the duct collar lip at one location and working over it over the lip gradually. It may be removed after use for easier transport and storage.

### Outlet Ducting

A detachable trapazoid shaped exhaust ring is supplied that will allow 10" round lay-flat plastic duct to be attached to the PA-600-HAS outlet. To attach ducting to the collar, remove the ring from the unit by pressing release tab at the top of the grill. Put the plastic duct end through the inside of the ring. Roll the duct end outward so that it over-laps the outside of the ring. Clip the ring back onto the exhaust grill.

## Negative Air Ducting

The PA-600-HAS can be used to filter and exhaust air from a space. When exhausting to outside the space, the space will be under a slight negative pressure. This will help prevent airborne particles from leaving the space, because the negative pressure will draw air in through openings in the space's exterior surfaces.

**CAUTION :**Exhausting too much air from a space with open combustion devices(e.g. furnace, fire place or water heater)can cause those devices to backdraft. This can contaminate the space with potentially fatal gases.

In such cases, the PA-600-HAS must be used in one of the following three ways:

A.As a filtering unit only. Exhausting no air from the space and thus causing no negative pressure or backdrafting.

B. Exhausting a very limited amount of air which does not cause backdrafting. In case B, the open combustion devices must be thoroughly checked to guarantee that they do not backdraft while the air scrubber is running.

C. Direct the outlet duct from the air scrubber to the room with the open combustion device(s).This will positively pressurize the room with HEPA filtered air, thus preventing backdrafting. As in case B, those combustion devices must be checked after the air scrubber is running to guarantee that they are not backdrafting.

## Power/Speed Control

The power/speed switch is located on the control panel. When turned on to any speed. it powers the impeller fan. Occasionally the impeller fan may not start on low speed. If this occurs, rotate the speed control to high speed until the impeller fan starts, then adjust it to a lower speed.

**CAUTION: Do not remove HEPA filter with the unit on. Removing the top and filters while running will expose the dangerous rotating impeller fan. Disconnect the appliance before changing filters.**

## Resettable Circuit Breaker

The 12 AMP thermal response resettable circuit breakerprotects the unit and devices connected to its duplex GFCI outlet. The circuit breaker is designed to sense the total current draw through the circuit. The circuit breaker "trips" when more than 12 amps of electrical current are drawn through the device's power cord. Should an over-current condition occur, the PA-600-HAS on-board circuit breaker prevents nuisance visits to a remote power junction box.

**IMPORTANT: Total amperage of the PA-600-HAS plus all devices plugged into the receptacle must not exceed 12 amps. The circuit breaker will not allow for loads in excess of 12 amps, although there is a time delay before the overloaded circuit is broken. When the PA-600-HAS is plugged into a standard "powered" wall outlet the unit's duplex outlet is electrically "HOT" and AC voltage is present.**

## GFCI Protection and the On-Board Duplex VAC Outlet

The standard AC voltage outlet GFCI(Ground Fault Circuit Interrupter)protection promotes operator safety in wet applications. GFCI devices trip when a fault to electrical "ground" is sensed. It is recommended to check the GFCI protection prior to operation. To check, push the"TEST" button located on the GFCI duplex outlet. If operating properly the "RESET" button on the GFCI

outlet will pop out. A tripped GFCI is indicated by a small LED. The device can only be RESET when the PA-600-HAS is connected to a wall outlet providing standard voltage. This duplex AC outlet allows the inter-connection of other AC powered devices. The sum total amperage of all devices plugged into the receptacle must not exceed 10 amps.

## **Servicing**

Before each use inspect for damage, blocked inlet or outlet. Inspect the GFCI to ensure it is not in a "tripped" condition. Push RESET to reset the GFCI. When the PA-600-HAS is first turned on, check for excessive vibration. If the unit vibrates excessively or if impeller rubs on housing, turn off the unit immediately. Have a service technician inspect the unit to locate the problem.

## **Maintenance**

**WARNING! Use extreme caution when changing the HEPA filter as hazardous material could be trapped in the media. Always make sure to dispose of filters in the appropriate way. If you are unsure of how to safely dispose of any filter-consult an industrial hygienist to ensure that all hazardous materials are contained and disposed of properly.**

### **Air Filters**

The standard PA-600-HAS is equipped with two filters that progressively filter out smaller particles. An optional activated carbon/potassium permanganate filter can be also added. These filters must be checked regularly. Operating the unit with dirty filters will reduce the airflow, but will do no harm to the unit. The unit can be run indefinitely with dirty filters. The two standard filters used are listed below (as installed in the unit from top to bottom):

A. 25 to 30% efficient (per ASHRAE 52.1-1992), MERV-7, pleated fabric pre-filter.

B. 99.97% DOP efficient HEPA filter.

### **Filter replacement**

When the amber "filter change light" illuminates. It may be time to replace one or both filters. To check airflow accurately, an airflow meter or anemometer must be used:

When the filter change light illuminates; remove all ducting and run on high speed. If the filter light remains lit; replace the pre-filter and run on high again. If the light remains: it is time to replace the HEPA filter for full 650 CFM performance. Airflow on high speed with all filters clean and no ducting is slightly over 650 CFM. The unit can be run with very dirty filters and virtually no flow without harming the unit. The operator's decision to change filters should be based on filter cost vs. the unit's filtering effectiveness. If airflow is 250 CFM vs. 650 CFM, the unit will filter particles from a space at half the rate. The operator must judge if that is acceptable.

If the operator determines the filters should be changed due to low airflow, it is most economical to change them in the following order:

Change the pre-filter (top) first. This is the least expensive filter. Recheck the airflow. If the airflow is acceptable, no other filters need to be changed.

If the airflow is still too low, the HEPA filter must be changed. To remove the HEPA filter, follow these steps:

- 1.Loosen the eight screws one revolution
- 2.Rotate all eight clips out of the way.
- 3.Remove old filter.
- 4.Installing the new filter is the reverse of these instructions

### **Optional Activated Carbon/Potassium Permanganate Filters**

Optional gas phase filters use a blend of activated carbon and potassium permanganate. This blend removes the vast majority of gaseous contaminants encountered in most filtering applications. The activated carbon removes the heavier volatile organics while the potassium permanganate removes lower molecular weight contaminants. This is well suited to the smoke odors present after fire.

The life of the media blend depends upon both the hours used and the contamination level. Another damage advantage of the blended media versus activated carbon only is that part of the blend changes color as it loads up with contaminants. It starts out black, then turns pink, then brown, and finally white .It is best changed when it passes the brown stage and begins to turn white. It has lost most of its effectiveness at that point. The filter is the same size as the pleated fabric filter. Install it in place of the pleated fabric filter.

## **Service**

CAUTION: Servicing the PA-600-HAS with its high voltage circuitry presents a health hazard that could result in death. serious bodily injury, and/or property damage. Disconnect the appliance from the power supply before servicing. Only qualified service people should service this unit.

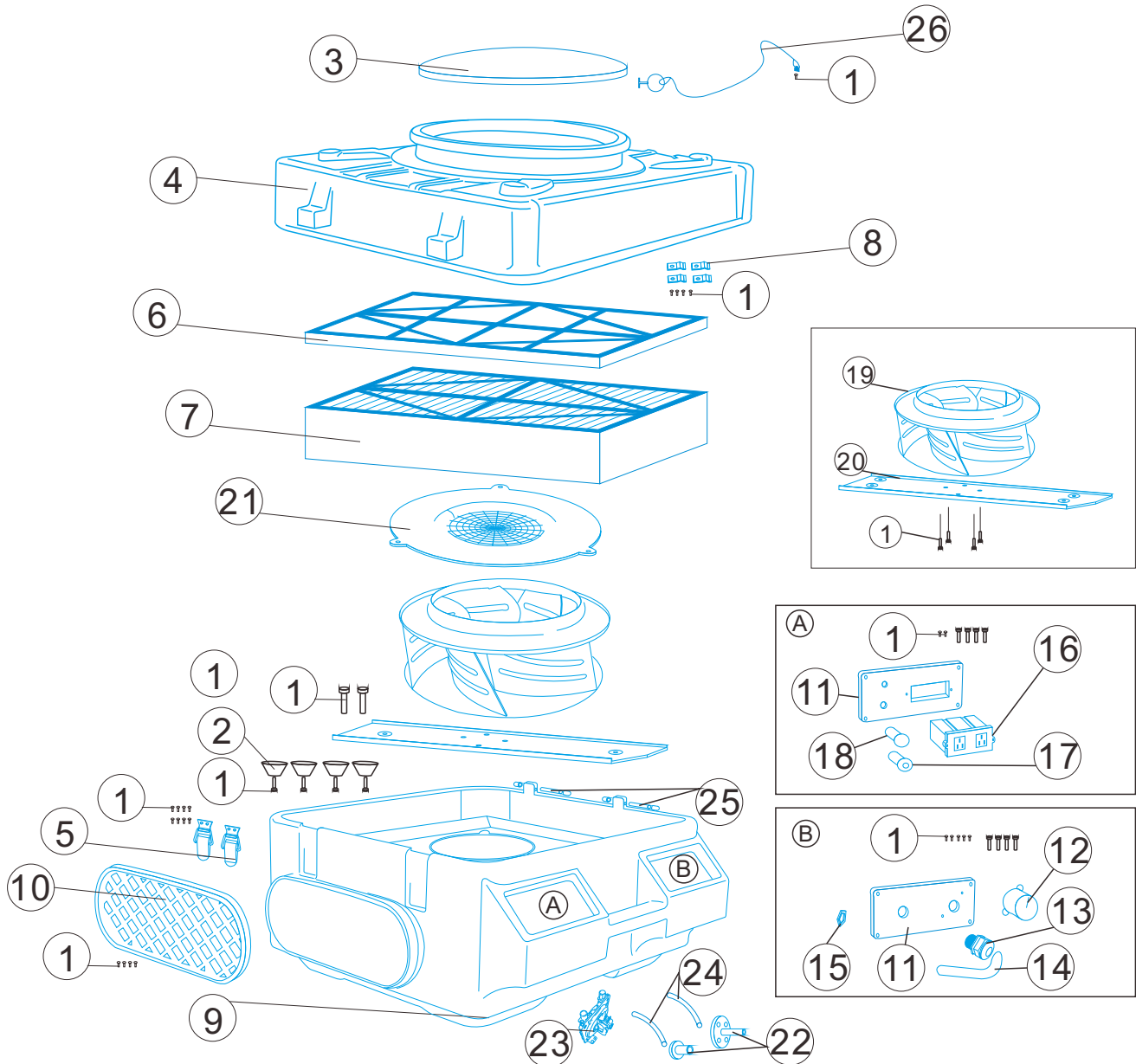
## **PURAERO'S WARRANTY POLICY:**

### **1-Year Warranty**

Subject to the conditions stated below. PURAERO offers a limited warranty on parts and labor on the following equipment, parts and accessories to be free from defects in material and workmanship for a period of one year to the original purchaser.

**Wear items exempt from warranty consideration include but may not be limited to: power cords, transport wheels, castors, handle grips, filters, screens.** Subject to the conditions and exceptions stated in this warranty. PURAERO warrants the PURAERO products to be free from defects in material and workmanship. Under normal use and service. for the periods listed under the warranty policy to the original purchaser. At any time during the warranty period, original owner will be liable for transportation costs to repair facility. PURAERO will furnish replacement parts for the PURAERO products to the original purchaser. Such parts will be furnished and charged including transportation costs, to the original owner. Replacement parts that have become defective through wear or abuse are not included in this warranty. This warranty does not apply to damage or defect caused by accident, misuse, negligence, fire or to any PURAERO product which has been serviced or repaired by other than an authorized PURAERO Service Distributor or PURAERO factory personnel. This warranty is void if products are used for any purpose other than that which was intended. There are no other warranties expressed or implied. In no event shall PURAERO be liable for incidental or consequential damages or any damage to person or property.(Please note some states do not allow the exclusion or limitations for incidental and consequential damages.)

# PA-330-AM-BL MOVER ASSEMBLY



ITEM NUMBER	PART NUMBER	DESCRIPTION	QTY	ITEM NUMBER	PART NUMBER	DESCRIPTION	QTY
1	600-01	SCREW	42	14	600-14	POWER CORD	1
2	600-02	RUBBER FOOT	4	15	600-15	NUT, HEX	1
3	600-03	REMOVABLE FOAM CAP	1	16	600-16	GFCI OUTLET, FEMALE PLUG	1
4	600-04	UPPER HALF SHELL	1	17	600-17	CIRCUIT BREAKER	1
5	600-05	BUCKLE	2	18	600-18	FILTER NET PLUG ALARM LAMP	1
6	600-06	PRIMARY EFFICIENCY FILTER	1	19	600-19	AC MOTOR AND FAN BLADE	1
7	600-07	HIGH EFFICIENCY FILTER	1	20	600-20	FIXED PLATE	1
8	600-08	FIXED BUCKLE	4	21	600-21	LARGER & WIDER AIR OUTLET	1
9	600-09	LOWER HALF SHELL	1	22	600-22	PIPE JOINT	2
10	600-10	LARGER & WIDER AIR OUTLET	1	23	600-23	ON/OFF ROCKER SWITCH, BLK	1
11	600-11	SWITCH PANEL/GFCI PANEL	1	24	600-24	PRESSURE PROBE	2
12	600-12	ON/OFF ROCKER SWITCH, BLK	1	25	600-25	LOOSE LEAF HINGE	2
13	600-13	STRAIN RELIEF-LQ TIGHT	1	26	600-26	COVER ROPE	1