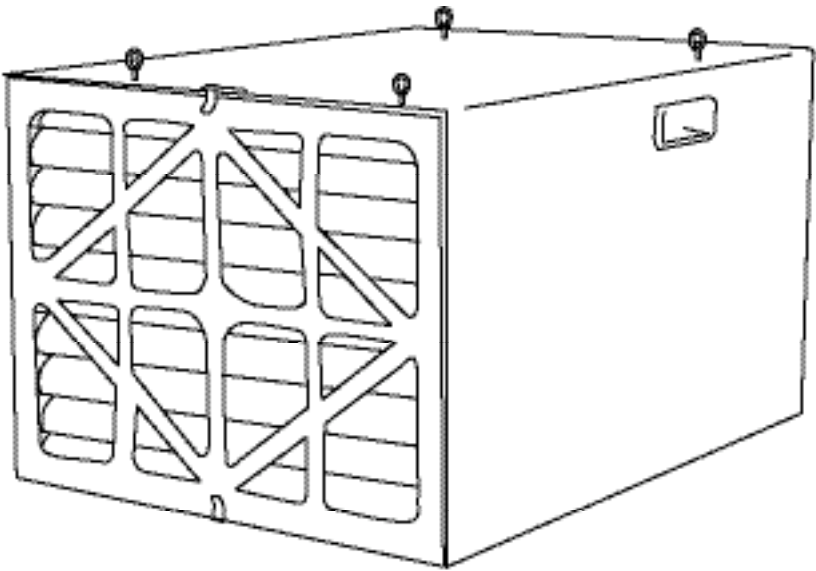


# Operating Manual and Parts List

## #AC1000 Air Cleaning System

*Version 2 - 02/07*



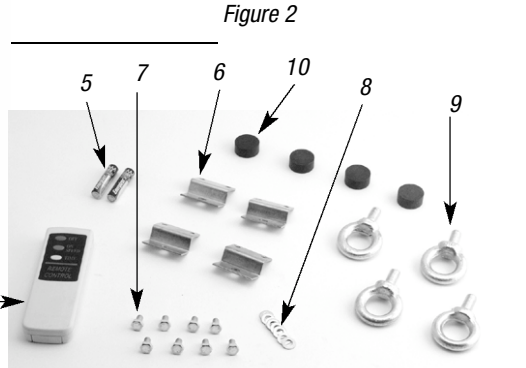
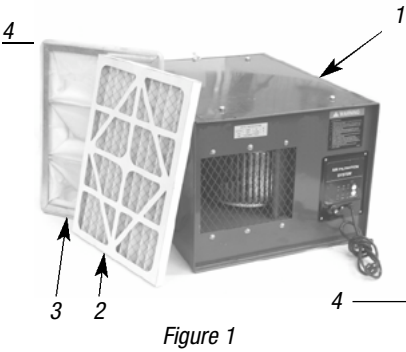
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## BOX CONTENTS

The #AC1000 comes fully assembled, however remove any extra filters or packing that may be inside the unit. Check to see that all parts are included. (see Figure #1 & #2)

ITEM	QTY
1. #AC1000 Deluxe Ceiling Mounted Air Cleaner	1
2. Primary Filter (5 micron, Pleated-Type)	1
3. Secondary Filter (1 micron, Bag-Type)	1
4. Hand-Held Remote Control Unit	1
5. AAA Battery	2
6. Flange Bracket	4
7. Hex Bolt (M6-1.0 x 8)	8
8. Flat Washer (6 mm)	8
9. Eye Bolt (M6-1.0 x 20)	4
10. Rubber Feet	4



## WARRANTY

This product is warranted against defects in materials and workmanship for a period of two years from the date of purchase. The warranty applies to the original purchaser of the product as is limited to the repair or replacement of the product or its parts at our discretion. Excluded are parts that have been mis-used, abused, altered, or consequential damages to persons, property, or materials. Your invoice serves

## MOUNTING

### Table Top Mount (see Figure #3).

- Affix the Rubber Feet (#10) onto the bottom side of the #AC1000 unit near the corners. Lift the unit using the handle grips on the side of the unit.

### Hanging Mount (see Figure #4)

- Remove the plug screws from the top of the unit.
- Thread the eye bolts (#9) into the screw hole until they seat securely into place.
- Install chains or cables with "S" hooks to the ceiling about 22" apart left to right and 36" apart front to rear. Carefully raise and secure the #AC1000 eye bolts to the hanging lines. Get assistance, if necessary.

### Flush Mount to Ceiling or Wall (see Figure #5)

- Attach the four flush mount brackets (#6) to the sides of the #AC1000 using the hex bolts (#7) and washers (#8) as indicated in the figure.
- Locate a load bearing stud or support on the ceiling or wall where you are going to mount the unit. Mark the bolt hole pattern and drill the bolt holes to accept 1/4" bolts.
- With assistance, carefully position the #AC1000 and screw or bolt the unit into place through the flush mounting brackets.
- Make sure the mounting is secure.

## POSITIONING

The #AC1000 is designed to be used either as a portable unit or it may be permanently mounted. For portable use, simply position the unit such that the intake faces the source of the dust creation. You may place the unit on a tall rack, sturdy table, rolling cart, or a dolly.

Make sure to leave enough room on the exhaust side to allow for good air flow. It is important to position the unit so all the air in the shop will be drawn into the filter and circulated in a swirling motion throughout the entire shop. Ideally, there should be no dead spots containing stagnant air.

The most efficient air circulation may be obtained by placing the unit high along the longest wall, and approximately 1/3 of the distance to the adjacent wall. Make sure the exhaust end is facing the longer expanse of the open air to obtain the best circulation. Refer to Figure #6 for positioning options for your air cleaning system.

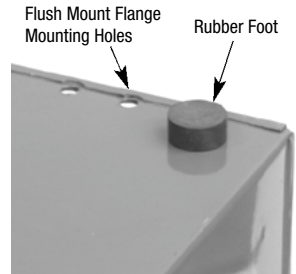


Figure 3



Figure 4

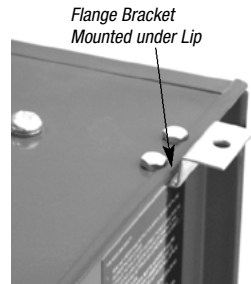
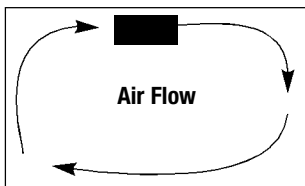
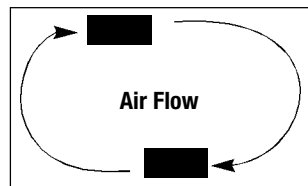


Figure 5



1 Unit Setup



2 Unit Setup

Figure 6

## SPECIFICATIONS:

<i>Fan Diameter</i>	<i>5"</i>		
<i>Noise(dB)</i>	<i>62dB low speed</i>	<i>68dB high speed</i>	
<i>Air Flow</i>	<i>Low, Medium, High</i>	<i>700/850/1000</i>	
<i>Motor</i>	<i>1/5 HP</i>		
<i>Motor max. draw (AMPS)</i>	<i>Low 2 A</i>	<i>Medium 2-1/2 A</i>	<i>High 3 A</i>
<i>Area Cleaned (max. cubic ft)</i>	<i>7500</i>		
<i>Inner Filter Bag (P/N #AC1000-BF)</i>	<i>14-1/2" x 19" x 12" (1 micron)</i>		
<i>Pre Filter (P/N #AC1000-PF)</i>	<i>14-1/2" x 19" x 1" (5 micron)</i>		
<i>Filtering Cycle (for 7500 cubic ft. room)</i>	<i>8</i>		
<i>Remote Distance</i>	<i>up to 50 ft.</i>		
<i>Chassis Size (L x W x H)</i>	<i>30" x 19-1/2" x 15"</i>		
<i>Net Weight</i>	<i>58 lbs.</i>		

## PRODUCT SUPPORT

*If you are having problems with your #AC1000 Air Cleaning System, feel free to call PSI Woodworking Products at 1-215-677-6374 during normal business hours (8:30a.m. to 5:00p.m. EST Monday thru Friday). If you write, please give a phone number where you can be reached during the day. Have your invoice number handy to expedite processing any warranty parts ordered.*

*Thank you for your business.*

*Please record your invoice number for future reference:*

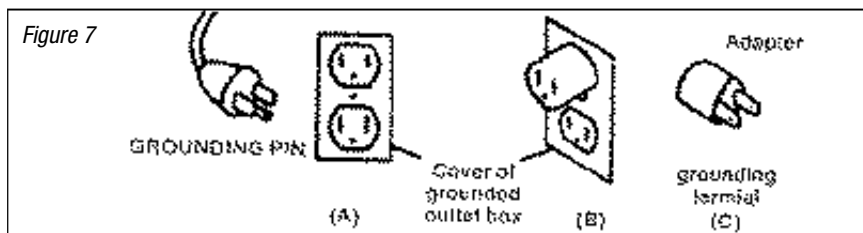
*Invoice # \_\_\_\_\_ Date: \_\_\_\_\_ Serial No. \_\_\_\_\_*

## GROUNDING (refer to Figure #7)

1. In the event of a malfunction or breakdown, grounding provides a path of least resistance for the electric current to reduce the risk of electric shock. This machine is equipped with an electrical cord that has an equipment grounding conductor and a grounding plug. The plug must be plugged into a matching outlet that is properly installed & grounded in accordance with all local codes & ordinances.
2. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.
3. Improper connection of the equipment grounding conductor can result in the risk of electric shock. The conductor with the green outer insulation (with or without a yellow stripe), is the equipment-grounding conductor. If repair or replacement of the electrical cord is necessary, do not connect the equipment-grounding conductor into a live outlet.
4. Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if there is doubt as to whether the machine is properly grounded.
5. Use only three wire extension cords that have 3-prong grounding plugs and 3-pole receptacles that accept the tool's plug.
6. Repair or replace damaged or worn cord immediately.
7. This machine is intended for use on a circuit that has an outlet that looks like the one in Figure (#7A). The machine has a grounding plug that looks like the plug in Figure (#7A). A temporary adapter, which looks like the adapter in Figure (#7B) and (#7C), may be used to connect the plug to a one pole receptacle, as shown in Figure (#7B), if a properly grounded outlet is not available. The temporary adapter should only be used until a properly grounded outlet can be installed by a qualified electrician. The green-colored grounding wire extending from the adapter, must be connected to a permanent ground such as a properly grounded outlet box.

**NOTE:** The type of electrical plug and receptacle differs from country to country.

**CAUTION:** IN CANADA, ONLY THE GROUNDING SHOWN IN FIGURE (A) IS ACCEPTABLE. THE EXTENSION CORD SHOULD BE A CSA CERTIFIED S.J.T. TYPE OF EQUIPMENT.



## OPERATION

Refer to Figure #8 for the Control Panel at the rear of the #AC1000. There are 3 LEDs to indicate fan speed (HI, MID, LOW) and 3 LEDs to indicate the operation time (1 Hour, 2 Hours, 3 Hours). Note that if none of the timing LEDs are lit, the unit is on continuously.

### Manual Operation from the Control Panel:

- Press the OFF button to turn off the unit.
- Press ON/Speed to turn the unit ON (with the initial press of the button) and for each additional push the fan speed cycles from LO to MID to HI.
- The timer will be on continuously when operated in this manner.

### Remote Control Operation:

- Refer to Figure #9 to operate the #AC1000 remotely, using the remote control hand piece:
- Press OFF to remotely shut off the #AC1000
- Press ON/SPEED to remotely turn the unit ON (at low speed) with the first press of the button, for every additional press, the fan speed cycles from LO to MID to HI.
- Press the TIME button to cycle the time from continuous to auto shut-off in 1 HR, 2 HRS, or 4 HRS. Note that when the unit is turned ON the timer is on continuous until the TIME button is pressed.

**Note:** The remote control requires 2 "AAA" batteries. Replace by removing the back panel and inserting new batteries.



Figure 8

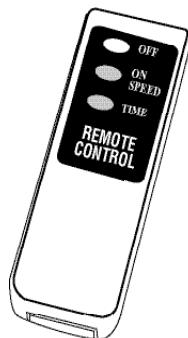


Figure 9

## MAINTENANCE

### Pre-Filter:

When dust has accumulated on the pre-filter and is visible, it should be cleaned.

To clean the pre-filter, use one of the following methods:

- Blow off particles with compressed air from the clean side (low psi)
- Vacuum off dust.
- Brush off dust.
- Replacement part #AC1000-PF

**Do not wet this filter.**

### Internal Bag Filter:

The internal bag filter should be visually inspected when the pre-filter is cleaned. If there appears to be an excessive accumulation of dust, the filter should be cleaned or replaced.

- The internal filter may be reused provided it is not ripped or torn. (Note: a small tear can be repaired with viscous glue like silicon or "hot melt").
- To clean the air filter, carefully remove it from the housing and gently shake it over a suitable receptacle. Brushing or vacuuming may cause it to tear.
- Replacement part #AC1000-BF

**Do not wet this filter.**

### Motor:

The motor has sealed bearings, which require no lubrication.

## **SAFETY RULES FOR AIR CLEANERS**

- *Read and understand this owner's manual and all labels on the air filter system before operating. Use only as described in this manual.*
  - *To avoid personal injury or damage to air filter system, use only the recommended accessories.*
- Sparks inside the electrical parts can ignite flammable vapors or dust. To avoid fire or explosion:*
- *Do not use this air filter system near flammable or combustible liquids, gases, gasoline, other fuels, lighter fluid, cleaners, oil-based paints, natural gas, hydrogen, or explosive dusts like coal dust, magnesium dust, grain dust, or gun powder.*
  - *To avoid health hazards from vapors or dusts, do not use near toxic materials.*
  - *Do not use or store near hazardous materials.*
  - *Do not use outdoors or on wet surfaces.*
  - *Put unit on a stable, level surface.*
  - *Do not allow to be used as a toy. Close attention is necessary when used by or near children.*
  - *Unplug from outlet before servicing.*
  - *If attaching #AC1000 to the ceiling – make sure machine is secured to joists capable of supporting the weight of the machine.*
  - *To avoid injury from accidental starting always unplug power cord before changing or cleaning filter or dust bag.*
  - *Do not use without filter and dust bag in place.*
  - *Do not unplug by pulling on cord. To unplug, grasp the plug, not the cord.*
  - *Turn off controls before unplugging.*
  - *Do not use with damaged cord, plug, or other parts or if your air filter system is not working as it should, has missing parts, or has been dropped, damaged, left outdoors, or dropped into water.*
  - *Do not handle plug of air filter system with wet hands.*
  - *Do not put any object into ventilation openings.*
  - *Keep hair, loose clothing, fingers, and all parts of your body away from openings and moving parts.*
  - *Extension cords in poor condition or that are too small can pose fire or shock hazards. When using an extension cord, be sure it is in good condition.*
  - *Connect to properly, grounded outlet only. (See "GROUNDING INSTRUCTIONS" on page 4)*

## **SAVE THESE INSTRUCTIONS**

## TROUBLESHOOTING

### TROUBLE

#### PROBABLE CAUSE

#### CORRECTION

---

Motor does not run when power switch is pressed "ON".

- |   |                                  |
|---|----------------------------------|
| 1. Switch is burnt out.                 | 1. Replace the switch.           |
| 2. Connection wire is loose or damaged. | 2. Tighten wire or replace wire. |
- 

Motor does not run at full speed.

- |                              |                            |
|------------------------------|----------------------------|
| 1. Power voltage is too low. | 1. Test voltage.           |
| 2. Motor is damaged.         | 2. Check and repair motor. |
- 

Motor does not reach full power.

- |                            |  |
|----------------------------|--|
| 1. Incorrect power wiring. | 1. Replace with the correct size power wiring. |
| 2. Overloaded.             | 2. Reduce load.                                |
- 

Motor overheating.

- |                                |                            |
|--------------------------------|----------------------------|
| 1. Motor voltage is different. | 1. Check voltage label.    |
| 2. Motor is damaged.           | 2. Check and repair motor. |
- 

Insufficient suction power.

- |                              |   |
|------------------------------|---|
| 1. Pre filter blocked.       | 1. Clean pre-filter.                                  |
| 2. Filter bag is full        | 2. Empty dust from filter bag/replace bag.            |
| 3. Outlet grille is blocked. | 3. Clean outlet grille or adjust direction of outlet. |
- 

Remote control not working.

- |   |  |
|---|--|
| 1. Battery weak or dead.                    | 1. Replace battery.  |
| 2. Battery wiring loose or damaged.         | 2. Check wiring-replace/repair.                                  |
| 3. Motor not responding to remote selection | 3. Check wiring replace receiver module/<br>replace power panel. |
- 

Unit is shaking.

- |   |                            |
|---|----------------------------|
| 1. Unit is not properly anchored.             | 1. Mount unit firmly.      |
| 2. Unit is not level.                         | 2. Level unit.             |
| 3. Motor is not mounted securely inside unit. | 3. Tighten mounting bolts. |
- 



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