

Website: www.AeroPure.us

US Toll Free: 1 (800) 281 - 6242

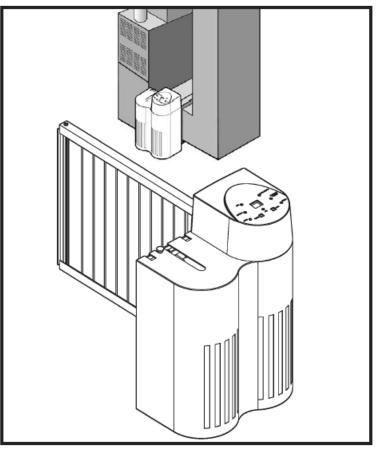
Installation & Operation Manual



Automatic Whole Home Filtration System

Patented: 6,632,269; 6,491,735; 6,402,822; 6,743,282

For Residential Forced Air Furnace Only



WELCOME

Congratulations! You are now the proud owner of the most user friendly, effective Furnace Filter System, the "AEROPURE WHFS". Your AEROPURE continuous filtration system helps reduce the many problem-causing pollutants and allergies that can linger in your home. The patented continuous filtration system not only keeps your indoor air clean, but more so optimizes your air flow which would result in reaching your preferable temperature faster hence reducing your energy cost.

AEROPURE is dedicated to our customers and we pride ourselves on the quality and performance of our products. If you have any questions, comments, need service, or parts, please call your local authorized dealer or call one of the TOLL- FREE numbers on the back of this manual for the Distributor nearest you. Please, take a few moments to read all of the sections in this manual and familiarize yourself with your new AEROPURE. We hope you will enjoy all the benefits of clean and efficient air filtration.

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When using an electrical appliance, basic precautions should always be followed, including the following:

READ ALL INSTRUCTIONS BEFORE USING YOUR AeroPure WHFS

WARNING: To reduce the risk of fire, electric shock or injury:

- Do not use outdoors or on wet surfaces
- Do not use with damaged cord or transformer
- If the supply cord is damaged, it must be replaced by the manufacturer
- Do not unplug the transformer by pulling on cord. To unplug,

grasp the transformer, not the cord

Do not handle transformer with wet hands

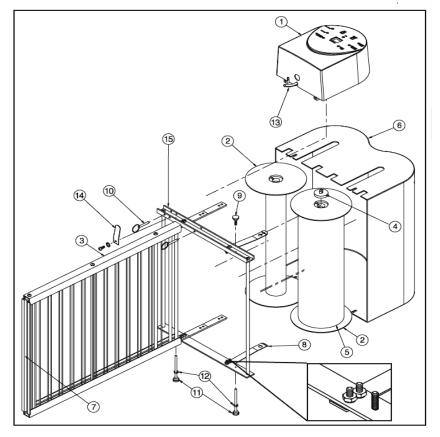
SECTION B – TECHNICAL SPECIFICATIONS

Motor: 24 VDC Transformer: Class 2 Input: 120V AC 60Hz 33.5W Output: 24V AC 833mA UL No. 38H3 Filter: Electrostatic Charged Media - UL No. R18143. Several filters available at your dealer. Refer to filter packaging for product specification. Construction: Anodized Aluminum frame, ABS control box, Polystyrene cover Warranty: See warranty for details - Page 19

SECTION A – IMPORTANT SAFETY INSTRUCTIONS

SECTION C – PARTS DESCRIPTIONS

ITEM QTY PART NO. DESCRIPTION	ITEM QTY PART NO. DESCRIPTION
1 1 202502 CONTROL BOX	7 1 162032 GASKET
2 2 162011 16" MEDIA ROLL ASSEMBLY	202532 GASKET (20" UNIT)
202511 20" MEDIA ROLL ASSEMBLY	8 3 202519 SPRING PLATE
3 1 162001 16 X 20 FRAME ASSEMBLY	9 1 #10-32 X 3/4 KNURLED
162501 16 X 25 FRAME ASSEMBLY	KNOB
202001 20 X 20 FRAME ASSEMBLY	10 2 .187 x 1 QUICK RELEASE
202501 20 X 25 FRAME ASSEMBLY	PIN
4 1 202520 IDLER BUSHING	11 2 #10-32 X 3 LEVELING LEGS
5 1 162015 FILTER MEDIA	12 2 #10-32 HEX NUT
202515 FILTER MEDIA	13 1 Air SAMPLING TUBE
(FOR 20" UNIT)	14 1 162038 RETAINING SPRING
6 1 162024 FRONT COVER	15 CONTROL BOX AND
202524 FRONT COVER	CARTRIDGE SUPPORT
(FITS 20" UNIT)	FRAME ASSEMBLY

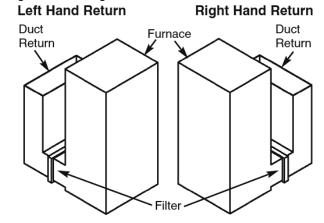


SECTION D – INSTALLATION INSTRUCTIONS

STEP 1 : Cold Air Return:

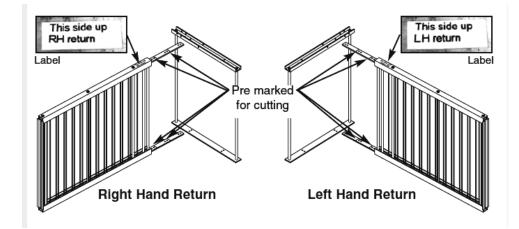
Determine the air duct cold air return in relation to the furnace before

assembling and installing the AeroPure Filter.



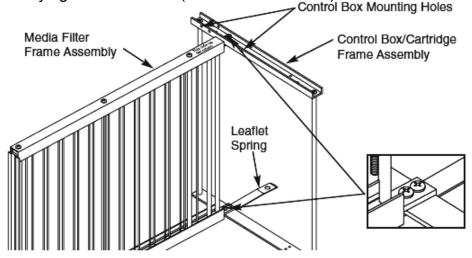
STEP 2 : Modifying Cartridge Frame Assembly:

Make sure the RH or LH label is upward depending on your system. The filter frame assembly extensions are marked in 2-1/2" intervals designed to be cut if necessary to fit your system when drain pipe or furnace offset exist. Measure the distance the furnace extends from the side of the ductwork. **Note:** Possibly pre-assemble the control box frame assembly to verify clearance from the furnace before cutting. Then cut the length of



STEP 3 : Frame Assembly:

Make sure the media filter frame assembly end is centered between the two control box mounting holes. Assemble the two frames and one of the leaflet springs using $#10-32 \times 1/2$ " round head machine screw with #10 lock washer and #10-32 hex nut. Eirmly tighten the frame. (Total 4 fastener sets)



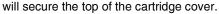
STEP 4 : Spring and Idler Installation:

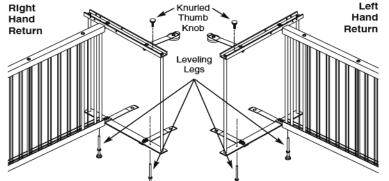
Attach the other 2 leaflet springs using #10-32 x 1/2" round head screws, #10 lock washer, #10-32 hex nut. (Total of 4 fastener sets) One of the leaflet springs has the idler bushing. Right Hand Return

STEP 5 : Leveling Legs:

Install the 2 leveling legs, engaging only 3-4 turns, do not tighten yet. These will serve later to support and level the assembly. The jam nut must be resting against the frame for proper support.

At this time, thread the knurled thumb knob in to the top of the frame. This

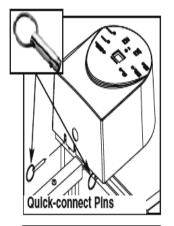


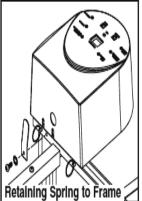


STEP 6 : Control Box Frame Assembly:

Place the control box on the frame so that the 2 positioning legs rest in the U-channel. Make sure the holes are lined up for the quick-connect pins (provided) to go through. The ring should be against the U-channel. Now assemble the retaining spring using one screw and star washer.

For the right hand return, the control box motor is set at the factory to rotate the cartridge counter clockwise. For the left hand return, the motor should rotate the cartridge clockwise. To do so: before you connect the power, remove the 5 screws holding the bottom plate of the control box, reverse the motor leads connection on the motor, and reassemble the bottom plate making sure not pinching the clear tube.





STEP 7 : Install Take-up Reel & Cartridge:

Snap in the take-up real (Empty) between the control box and the bottom spring. The end caps come unassembled for R.H. or L.H. filter assembly. The end cap must be pressed on both ends of the tube **making sure the end cap idler seat is on top, and the paper filter lead is closest to the control box** - Refer to illustration in **Fig.7A**. Snap in the new filter cartridge between the springs. (Top spring has the idler that fits inside the roll end cap)

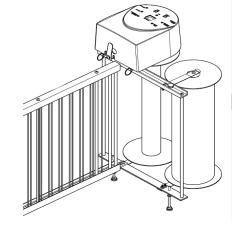
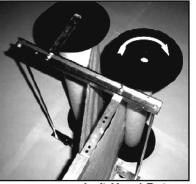


Fig. 7A shows the filter media installed for both R.H. and L.H. applications. The white arrows show the direction the take-up reel will turn for each.



Right Hand Return

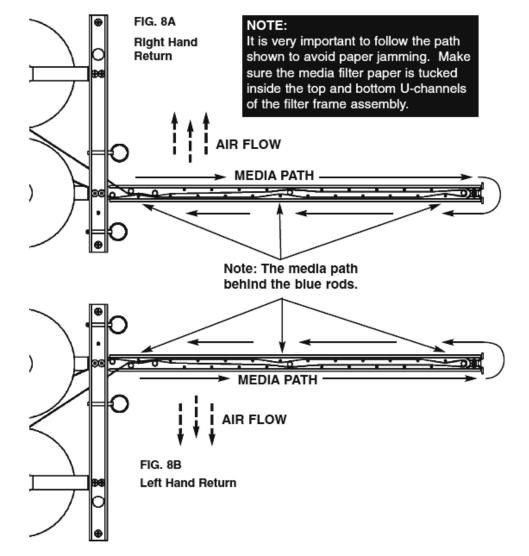


Left Hand Return

STEP 8 : Feeding The Filter Media:

Using the filter paper with white taped end as a lead, feed the paper as shown in figure **FIG. 8A** (for right hand) **or 8B** (for left hand). See pages 10 and 11 for a pictorial guide of feeding the filter media through the filter media frame assembly.

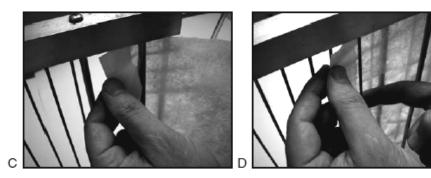
FILTER MEDIA FEED PATH



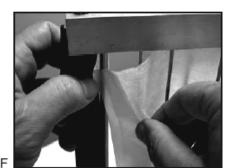
STEP 8 : Feeding The Filter Media – continued:

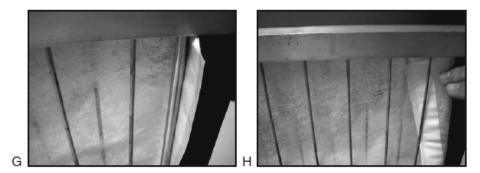
Hold the white taped lead of the filter paper, feed the paper as shown in figure **FIG. 8C-L**.

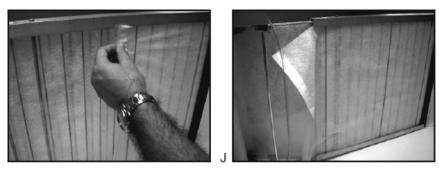
FIG. 8



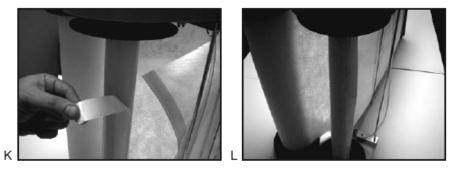








The filter media is passed behind only three guide rods marked with blue dye.



Peel the adhesive tape strip on the take-up reel (i). Adhere the filter media to the tape making sure it is adhered to the proper side for clockwise or counter clockwise motor operation (j).

PROCEED TO STEP 9

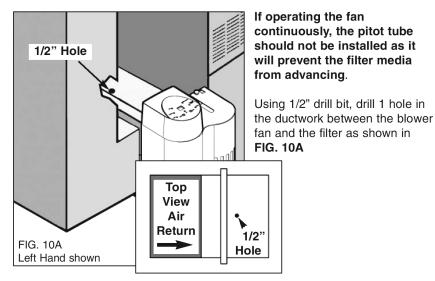
STEP 9 : Jogging The Filter Media

Plug the transformer provided to a 110/120 VAC outlet and to the back of the control box.

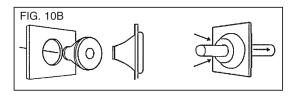
When the power is on, set the mode to **JOG**, press **JOG** to wind a couple revolutions of filter paper on the take-up reel.

Insert the frame inside the duct work making sure you push it in far enough to ensure that the gasket installed at the end of the frame seals any air leaks.

STEP 10 : Pitot Tube Installation



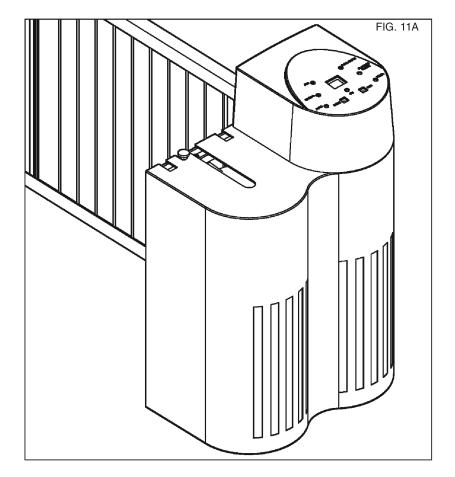
Insert the rubber plug as shown in **FIG. 10B**. Snap the plug into the panel. Push in the probe attached to the end of the clear tube in the plug.



STEP 11 : Cover Installation

Slide the cover over the aluminum frame as shown in the illustration. Make sure the notches on the cover line up with the pre-tightened knurled knobs **FIG. 11A**.

Tighten the top knob 10-32 x 3/4" to hold the cover in place. The bottom of the cover will rest on the leveling legs.





SECTION E – OPERATION INSTRUCTIONS

Powering The Unit

Plug the transformer into a nearby outlet. (Indicator power **ON** light will illuminate) indicating that the unit has power and is turned on.

SAFETY NOTE: Use of extension cords is strongly discouraged.

Choosing Proper Program

There are five programs to choose from depending on type of filter cartridge you are using. Refer to the label on your cartridge to choose the proper program.

Program Filter Level Program Description

01	STD	Advances every 60 days - 6 Cycle = 1 year supply
02	STD	Advances every 60 days - 12 Cycle = 2 year supply
03	ULTRA	Advances every 45 days - 8 Cycle = 1 year supply
04	ULTRA	Advances every 30 days - 12 Cycle = 1 year supply
05	STD	Advances every 30 days - 12 Cycle = 1 year supply

Selecting A Program

NOTE: The filter cartridge and media must be installed before proceeding with programming the control box.

STEP 1 Set Control Box To Program Mode

Hold both $\ensuremath{\textbf{RUN}}$ and $\ensuremath{\textbf{MODE}}$ down for a few seconds until dashed lines appear on counter.

STEP 2 Select A Program

Select one of the programs listed above by pressing the RUN button. Once for 01, twice for 02, and so on.

STEP 3 Set Selected Program

To set the selected program, press and hold the **RUN** and **MODE** buttons until the cycle number appears. **NOTE:** The number that appears represents the number of cycles remaining since the first is already in the media frame and attached to the take-up tube. i.e. **5** will appear for "6 Cycle".

STEP 4 End Of Cycle

When the last feed is complete, the **CHANGE CARTRIDGE** indicator light flashes to tell you to order a new cartridge within the next 30 to 60 days, depending on the program. The counter will show **00**. At this stage, only the **JOG** mode is functional to allow advancing the remaining paper media. After installing new cartridge the control box will be set to the new program.

Important Operating Features

- When the CHANGE CARTRIDGE indicator is flashing, switching to JOG mode allows you to change the media cartridge. NOTE: The MANUAL and AUTO mode functions will not operate until the program is reset.
- 2.) The Control Box system will automatically switch to **AUTO MODE** when left unattended in **JOG** or **MANUAL** modes for 16 seconds to ensure the system remains as functional as it was intended to be.
- Built-in Memory In case of a power outage, the system will resume operation upon power restoration with correct program and number of feeds remaining.
- 4.) The auto filter media advance will not operate when the furnace fan is on, and will stop if the fan turns on during advancement. In the second case the advancement will resume when the fan shuts off. This will ensure the media retains all captured particles.

NOTE: This feature will not function if the Pitot Tube is not installed properly (See installation instructions for proper Pitot Tube assembly). If operating furnace in "Constant Fan", the pitot tube should not be installed as it will prevent the filter media from advancing.

- 5.) If the MANUAL ADVANCE button is pushed inadvertently, it can be stopped by pushing simultaneously the MODE and RUN button, this will stop the advancement immediately and in 16 seconds the program will revert to AUTO status.
- 6.) At any time when the system is in a program mode, you can check on the number of days remaining until the next cycle by pressing the **RUN** button.

SECTION F – FILTER REPLACEMENT

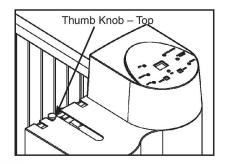
AeroPure offers serveral types of filters. Which one is correct for your home depends on your environment and your dealer recommendations. Contact your nearest dealer or call our toll free number for service.

At the end of the cartridge filter life, the "CHANGE CARTRIDGE" light comes on to indicate a filter replacement. Prompt filter replacement will prevent any potential damage to your furnace that may result from its continued operation with a clogged filter.

TO REPLACE YOUR FILTER

STEP 1 Remove The Cover

Loosen the top thumb knob and remove the cover.





Set the Control Box mode to "JOG". Advance the remaining filter media by pressing the button "**RUN**". Release the tape that is holding the end of the media from the plastic core roll.

STEP 3 Removal Of Used Media/Take-Up Reel

When all the media has cleared the aluminum frame, remove the take-up reel. While holding the used media roll with both hands, apply downward pressure and pull the top of reel out from under the control box. Remove the take-up reel from the leaflet spring. • Dispose appropriately.

STEP 4 Remove The Empty Cartridge

While holding the cartridge tube with one hand, lift the top leaflet spring away from the cartridge and pull the cartridge out from the top.

STEP 5 Move The Empty Cartridge To Control Box

Place the empty cartridge on the leaflet spring on the control box side. While applying pressure downward, position the top of the cartridge under the control box which will serve now as a take-up reel.

STEP 6 Installing The New Cartridge.

Refer back to STEP 7, on page 8 for instructions.

STEP 7 Remove The AeroPure From The Air Duct

- Unplug the transformer from the outlet and the control box.
- Remove the clear tube from the pitot tube in the duct work.
- Slide out completely the frame assembly and place on the floor.

STEP 8 Feeding The Filter Media

Refer back to STEP 8 on pages 9 - 11.

STEP 9 Jogging The Filter Media

Plug the transformer provided, to a 110/120 VAC outlet and to the back of the control box.

When the power is on, set the mode to JOG, press JOG to wind a couple revolutions of filter paper on the take-up reel.

Now refer back to Page 14 to set the program.

Insert the frame inside the duct work and push it in far enough to ensure that the gasket installed at the end of the frame seals any air leaks.

Connect the pitot tube. See item no. 4 on page 15.

STEP 10 Replace The Cover:

Slide the cover over the aluminum frame. Make sure the notch on the top of the cover lines up with the knurled thumb knob. Tighten the thumb knob to hold the cover in place.

SECTION G - TROUBLE SHOOTING GUIDE

- **1.)** The filter media is not centered between the top and bottom U-channel frame (riding high or low):
 - **a.** The extender on the media frame assembly is bent upward or downward. Straighten the top and bottom ends as needed to center the filter media.
 - **b.** Make sure the end caps on the filter cartridges are pressed in all the way.
- 2.) There is an excessive tension on the filter media:
 - a. The frame must be squared when assembled.
 - b. Leaflet springs should be perpendicular to the frame.
 - c. Level the frame with the two bottom leveling knobs.
 - **d.** Make sure the end caps on the filter cartridges are pressed in all the way.
 - e. Filter media path should be as illustrated on page 9.
- 3.) There is no power to the unit:
 - a. The transformer should be plugged in 110 VAC only.
 - **b.** The transformer electrical cord is not connected to the back of the control box.
- **4.)** Filter media is rubbing on the stud of the leveling leg for the left hand return assembly.
 - **a.** Refer to the left hand return control box installation (step 5). The motor leads should be reversed to rotate the cartridge clockwise.

<u>SECTION H - WARRANTY</u>

Renewable Lifetime Warranty

AeroPure warrants the AeroPure Automatic Furnace Filtration System to one year from the date of purchase. The original purchaser must register their new unit using one of the following choices listed below. The original purchaser of the AeroPure may extend this warranty for successive additional year(s) by purchasing and using, during each year, genuine AeroPure filter cartridges (6 cycles extends 1 year, 12 cycles extends 2 years). In order to extend the AeroPure warranty for an additional year(s), the purchaser can use one of the choices below.

Warranty and Extended Warranty Registration Options

- 1.) Return the warranty extension card enclosed in the cartridge package
- 2.) Call our toll free number: 1- 800-281-6242

To repair or replace any defect or defective part under this warranty, notify us at our toll-free number then mail in your proof of purchase. If the AeroPure or part is found on inspection to be defective in material or workmanship, it will be repaired or replaced at the option of AeroPure and returned to the sender, freight paid. No reimbursement will be made for replacement of defective parts or service performed during the warranty period if done by anyone other than the authorized dealers or AeroPure without having obtained written authorization from AeroPure.

Warranty Considerations and Exemptions

This warranty does not cover:

- Use of the AeroPure for commercial, industrial, or other non-household purposes.
- Damage occurring through misuse or negligence.
- Damage caused by the use of a current or voltage other than 24 volts, .833Amp, transformer provided.
- Damage resulting from service work performed by parties other than AeroPure or the authorized dealers.
- Cost of transportation to our offices, or service calls.
- Cost of filters.

This warranty is null and void, and of no effect unless the AeroPure was purchased from an authorized dealer; and the manufacturer serial number for the AeroPure has not been changed, defaced, or removed. Any repair or replacement of a defect or defective part under this warranty will be warranted for one year or until such time where the warranty have been extended with the filter purchase. There is no other express warranty applicable to the AeroPure. Implied warranties, including warranties of merchantability and fitness for a particular purpose, are limited in duration to the period of time during which the express warranty given herein is in effect. All consequential or other damages resulting from a breach of this warranty are excluded from coverage under this warranty.

Some states do not allow limitations on how long an implied warranty lasts, or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you. AeroPure does not assume any additional liability. This warranty gives you specific legal rights, and you may have other rights which vary from state to state.