

Product Information and Owner's Manual

**Models 2500HV & 4000HV Airwash
HEPA Air Filtration System**

Keep this manual for
reference purposes



Cleaning the air you breathe.

INSTALLATION

To optimize the performance of your AMAIRCARE® HEPA AIR FILTRATION SYSTEM, it should be installed by a professional heating and ventilation contractor who is familiar with your indoor air quality situation and the operation of other heating, ventilation and air conditioning equipment that you may have.

HEPA AIR FILTRATION SYSTEMS

Congratulations! You will quickly realize that you have purchased the most effective air cleaning and treatment system available anywhere. It incorporates "state of the art" **HEPA** (High Efficiency Particulate Arrestance) technology. This is the equipment that respiratory specialists recommend.

Your **AMAIRCARE® Air Filtration System** comes with a limited warranty. With proper attention to its care and maintenance, you will receive a lifetime optimum performance.

If your indoor air has abnormally high concentrations of particulate, odors or toxins, the life span of the filter media may be shortened. Excessive particulate in the air will reduce the expected life of the **HEPA** filter as it will ultimately restrict the flow of air through the unit. Under normal conditions the **HEPA** filter will last from two to five years, and its ability to remove very small particulate actually improves with use. The activated carbon media has a finite limit as to the amount of odor or other gaseous toxins that it can absorb. Again, the higher the concentrations, the shorter the expected life. Normally, the first stage pre-filter should be replaced every 3-6 months.

As indicated above, the **HEPA** filter's particulate removal efficiency improves with use. However, the air flow through the HEPA filter media will ultimately begin to decrease, thus lowering its ability to circulate and clean as much air as when it was new. If the air flow through your unit is noticeably reduced, you can inspect the **HEPA** filter by removing it and seeing if the filter paper is darkened on the inlet or outer side. If it is, the filter cartridge should be replaced.

Please contact your local Amaircare® dealer or call **Americair** Corporation Customer Service Department at (905) 565-9488 regarding replacement of filter media, warranty information or if you have any questions or concerns about the performance of your **AMAIRCARE® Air Filtration System**.

OPERATING INSTRUCTIONS

With proper care and maintenance, you will enjoy many years of service and dramatically improve the quality of your indoor air. The **AMAIRCARE® HEPA Air Filtration System** is designed to operate continuously and the unit should be left in operation at all times.

INSTRUCTIONS

1. The unit may be operated in a wide variety of situations. Contact your HVAC contractor for specific instructions.
2. Plug the unit into a grounded outlet (120 Volt, 60 Hz or 230 Volt, 50/60 Hz). Depending on the area in which the unit was sold.
3. Turn the unit on by switching the "on/off" switch to the "on" position. Some units may have a variable speed control. If so turn the unit on by rotating the control dial clockwise until you feel or hear it click.
4. The unit will come on in the "HIGH" position. To Reduce the air flow, continue to rotate the control dial clockwise.
5. To turn the unit off, rotate the dial counter-clockwise past the "HIGH" position until you hear or feel it click.

CAUTION!

1. Make sure that the line cord is not in the path of people walking or where anything can be rolled over it.
2. Locate the unit such that there is no possibility of moisture dripping on it. Moisture could leak into the unit and damage the filter or electrical components.
3. The Air Filtration System discharges clean air through the duct connection on the side of the unit at the motor end.
4. Before removing the lid of the blower/motor section, disconnect the power cord.

NOTE: You may notice a slight "new" smell from the Air Filtration System when you first turn it on. This is normal and harmless and it will dissipate within a few days.

FILTER REPLACEMENT INSTRUCTIONS

The **AMERICAIR HEPA Air Filtration System** is designed to run continuously. To ensure optimal performance, please carefully follow the Product Information and Owner's Manual Instructions.

FILTER REPLACEMENT INSTRUCTIONS:

1. Read these instructions completely.
2. Unplug your unit from the power supply outlet.
3. Unlatch retaining clips and lift off lid.
4. Turn HEPA filter counter-clockwise and lift unit out.
5. Remove the **HEPA** cartridge(s) from the unit. NOTE: The sponge (or carbon) pre-filter and the **HEPA** filter will contain contaminant's. Remove them slowly from the unit in order to avoid dusting.
6. To remove the first-stage filter;
Foam: Simply lift the sponge from the bottom, pull it off and wash.
Carbon: Simply peel off the black pre-filter that surrounds the **HEPA** cartridge and discard.
7. To replace the first stage filter;
If Foam: Pull the sponge filter over the **HEPA** cartridge and gently pull it down until it completely covers the **HEPA** filter (white portion).
If Carbon: Wrap the new pre-filter around the **HEPA** cartridge completely enclosing it with the carbon blanket. Peel off the paper backing of the adhesive strip on the inside of the pre-filter and overlay the adhesive strip on the filter to seal it tightly. The carbon inner blanket (third stage filter) can be changed similarly, however there is no adhesive strip needed to hold it in place.
8. Replace the **HEPA** cartridge, complete with the new pre-filter and inner blanket (if changed) into the unit. Turn HEPA filter clockwise until it locks into position.
9. After all of the filters have been replaced, re-attach the lid and fasten the latches shut one at a time.
10. Plug in the unit and turn it on. If variable speed, turn to high speed.

FILTER MEDIA

There are three stages of filtration in the **AMAIRCARE® Air Filtration System**. Air is drawn into the unit through the duct opening and is exhausted through the duct opening above the fan compartment. The three stages of filtration are as follows:

STAGE 1: In the first stage the air passes through a sponge or activated carbon pre-filter. This stage of filtration removes the larger particles of dust. If the pre-filter is carbon it is also capable of removing odors and gases..

STAGE 2: After passing through the pre-filter, the air then moves through a high efficiency particulate removal filter. The “**HEPA**” (High Efficiency Particulate Air) filter media is laser tested to remove 99.97% of the particles in the air stream down to a size of 0.3 microns. Particles of concern which are normally in this size range include pollen, household dust, cigarette smoke, bacteria, animal dander, molds, etc.

STAGE 3: The clean air stream then passes through a 1/2" inner blanket of activated carbon impregnated non-woven polyester filter material. This final stage of filtering adsorbs additional gaseous contaminant's such as odors and toxic fumes.

SERVICE LIFE

The useful service life of the filter media in the **AMAIRCARE® Air Filtration System** is directly related to the volume of air passed through the system and the amount of contaminant's in the air. In a typical residential application, the Stage 1 and Stage 3 filter media should be replaced every three to six months. The Stage 2 **HEPA** filter should retain peak performance for a period of two to five years, again, depending on the amount of particulate in the air and the maintenance of the Stage 1 pre-filter.

Parts List:

4000HV

Description
15" Foam* or Carbon Pre-filter
(Stage 1)
15" 100 sq. ft. HEPA filter cartridge
(Stage 2)
15" V.O.C. Inner Carbon Blanket
(Stage 3)

2500HV

Description
8" Foam* or Carbon Pre-filter
(Stage 1)
8" 50 sq. ft. HEPA filter cartridge
(Stage 2)
8" V.O.C. Inner Carbon Blanket
(Stage 3)

See next page for a detailed list of parts.

AMERICAIR CORPORATION - PARTS LIST

The following are the various filter replacement components needed to ensure long-term optimum performance from your **AMERICAIR HEPA Air Filtration System**. To order, please contact your Dealer directly or call the factory to obtain the name of the Dealer nearest to your location.

2500HV

REPLACEMENT PARTS DESCRIPTION

8" HEPA Filter Cartridge 2500HV
(50sq.ft.)

Complete HEPA Filter Replacement Kit w/Foam 2500HV

(Includes Foam Pre-filter, 50 sq.ft. Hepa Filter and Carbon Inner Blanket)

8" Foam Pre-filter

8" Activated Carbon Prefilter

8" V.O.C. Carbon Inner Blanket
(For additional V.O.C. filtration employ additional V.O.C. blankets)

8" Foam Filter Replacement Kit
(Includes 1 Foam Pre-filter and 1 Carbon Inner Blanket)

8" Annual Filter Kit
(Includes 1 Foam Pre-filter and 2 Carbon Inner Blankets)

4000HV

REPLACEMENT PARTS DESCRIPTION

15" HEPA Filter Cartridge 4000HV
(100sq.ft.)

Complete HEPA Filter Replacement Kit w/Foam 4000HV

(Includes Foam Pre-filter, 100 sq.ft. Hepa Filter and Carbon Inner Blanket)

15" Foam Pre-filter

15" Activated Carbon Prefilter

15" V.O.C. Carbon Inner Blanket
(For additional V.O.C. filtration employ additional V.O.C. blankets)

15" Foam Filter Replacement Kit
(Includes 1 Foam Pre-filter and 1 Carbon Inner Blanket)

15" Annual Filter Kit
(Includes 1 Foam Pre-filter and 2 Carbon Inner Blankets)

SPECIFICATIONS

The **Americair Model 4000HV & 2500HV AIRWASH HEPA Air Filtration Systems** are designed for indoor air quality improvement situations where high capacity is required. Following are the specifications for these models:

MODEL 4000HV & 2500HV AIRWASH HEPA AIR FILTRATION SYSTEMS

CLASSIFICATION:

Central (High Efficiency Particulate Air) 100% Sealed Air Cleaning Device.U.L. and C.S.A. approved.

MATERIALS:

24 gauge cold rolled steel.

FINISH:

Powder coated baked enamel.

COLOR:

White

INTAKE (Section):Solid

Steel enclosure surrounding a three-stage filter assembly.

OUTFLOW (Section):

Encloses motor/fan.

MOTOR/FAN:

Thermally protected Class "B" insulated motor.

Designed for continuous operation.

Run tested for 50,000 hours.

Service: 120 Volt, 60 Hz or 230 Volt, 50/60 Hz.

CAPACITY (4000HV):

Air Flow - 300 cubic feet/max.

Maximum Power Consumption: 120 watts

CAPACITY (2500HV):

Air Flow - 175 cubic feet/max.

Maximum Power Consumption: 84 watts

CONTROL:

On/Off

FILTER LIFE:

Stage 1: Foam or Carbon Filter: 3-6 months

Stage 2: HEPA Filter: 2-5 years.

Stage 3: V.O.C. Carbon Blanket: 6-12 months.

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