



Airistar® 500 Air Purifier
(60 Hz, 110 volt Model)

Owners Manual

Warranty Information

Airistar Technologies, L.L.C. warrants that this product will be free from defects in workmanship and materials. Liability under this warranty and the buyers remedy under this warranty are limited to servicing or replacing, at Airistar Technologies' discretion, at the factory or at an authorized Airistar® distributor; any product, which shall, under normal use and service, be determined by the company to have been defective in material or workmanship.

The complete assembly (excluding all filters, UV lamps, lamp ballast, casters and lid grill) shall be warranted for a period of 5 years from the purchase date.

Filters, UV lamps, lamp ballast, casters and the lid grill shall be warranted against defects in parts, materials and workmanship for a period of 90 days from purchase date.

A condition of this warranty is that this equipment, or any parts or accessories claimed to be defective, be returned (with Airistar Technologies' prior authorization) freight prepaid to Airistar Technologies®.

Any service other than lamp or filter replacement (using Airistar® parts) without the written authority of Airistar Technologies® or its authorized agents voids this warranty.

Damage to any assembly or part through misuse, neglect, accident or using non-standard accessory attachments or by any customer modification voids this warranty.

Airistar Technologies® shall not be liable for any incidental, special, or consequential loss, damage or expense, directly or indirectly arising from the use of its products.

This constitutes the warranty in its entirety. No agent, employee, or representative of Airistar Technologies® has the authority to bind Airistar Technologies® to any additional affirmation, representation, or warranty concerning its products. Such representation shall not be enforceable.

07/05 SPB

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TROUBLESHOOTING

Troubleshooting

Unit does not operate:

- Check power switches.
- Check that the unit is plugged in.
- Check electrical outlet or circuit breakers.
- Ensure the lid is securely fastened.
- Be sure to remove bubble wrapped prefilter from the unit and re-install the pre-filter in the bottom of the unit.
- Contact your distributor or Airistar® customer service.

Unit emits unusual noises or smells:

- Turn off and unplug the unit.
- Contact your distributor or Airistar® customer service.

Note:

When contacting your distributor or Airistar® customer service for assistance or service, you will need to provide a description of the problem along with your unit's model and serial numbers, which are located on the back of your unit.

Airistar® Customer Service
+1 800-755-8006 or +1 847-775-8018
www.airistar.com

Troubleshooting Procedures

Describes troubleshooting procedures for the Airstar® 500

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Chapter

1

Product Introduction

General information on the Airistar® 500

Congratulations on the purchase of your new Airistar® air purification unit. Your purchase of this product attests to the importance you place upon the quality of air that you and those around you breathe.

Please acquaint yourself with your new system by spending just a few minutes with this manual. Learn about the operation of your system and the small amount of maintenance required to keep your unit operating at its highest efficiency.

Filter Change Notes:

Please use the space provided below to track your filter changes. This will aid you in determining when you last changed a filter and how often you need to change filters based on your environment.

<u>External Pre-filter</u>	<u>Internal Pre-filter</u>
<u>HAPA™</u>	<u>Activated Carbon (VOC) Filter</u>
<u>Germicidal UV-C Bulb</u>	

Resetting the Airistar® 500 Filter Displays

The Airistar® 500 control panel has four bar graphs, each displaying the status of one of the unit's four filters. Each graph is composed of nine segments. When a filter bar is full that means that the corresponding filter is dirty and should be replaced.

Filter Bar / Filter Life Calculations

(F1) Pre-filter:

High speed - 750 Hours.
Medium speed - 950 Hours.
Low speed - 1100 Hours.

(F2) Anti-microbial and

Pleated Electrostatic Filter:

High speed - 2900 Hours.
Medium speed - 3600 Hours.
Low speed - 4350 Hours.

(F3) HAPA Filter:

High speed - 8750 Hours.
Medium speed - 10950 Hours.
Low speed - 13150 Hours.

(F4) Activated Carbon Filter:

High speed - 4300 Hours.
Medium speed - 5400 Hours.
Low speed - 6500 Hours.

Resetting Filter Bar Display

After a filter is replaced, follow the procedure below to clear its associated filter bar.

- 1) Turn off the unit.
- 2) Push and hold the **Filter** button for 1 second to enter the filter clear mode. The **F1** icon will flash. Then, use the **Up** or **Down** buttons to select the filter that you want to clear.
- 3) Push and hold the **Filter** button to clear the filter bar that you have selected.

Note:

- 1) If your filter change bar is in use or flashing, you cannot turn the unit on.
- 2) You cannot reset filter bars with the unit turned on.

Airistar® 500 Air Purifier



HEXAFLOW™ Purification Process:

Stage	Description
1	Electrostatic Pre-filter - Merv 8 (F1)
2 & 3	Anti-microbial and Pleated Electrostatic Filters (F2)
4	HAPA™ - Rated up to 99.97% @ 0.3 microns (F3)
5	Activated Carbon Filter (Custom VOC Filters available) (F4)
6	Titanium Coated Germicidal Ultraviolet Bulb UV-C

Your new air purification unit utilizes the six stages shown above to strip smaller and smaller particles from the air, creating compounding efficiency. This efficiency is what will create the clean air environment that you require for your home or facility.

Custom VOC Filters

Volatile organic compounds (VOCs) are gases that are emitted from certain solids and liquids. Concentrations of many VOCs are consistently higher indoors than outdoors, as VOCs are contained in many household items such as air fresheners, carpeting, cleaning fluids, disinfectants, glues, office equipment, paints, permanent markers and varnishes.

Most VOCs can be handled by our standard Activated Carbon filter, however, there are some odors and VOCs that require an additional filter made of Zeolite material. Should you need a Zeolite filter, please contact your Airistar® distributor.

Replacing the UV Lamp

Removal

- 1) Unplug the unit.
- 2) Remove all filters from the filter chamber.
- 3) Hold lamp and gently turn until the contacts release from the lamp holders.

Installation

- 1) Using a clean cloth, pick up the UV bulb.
- 2) Insert lamp contacts into socket and gently turn (1/4 turn) until the contacts are fully engaged in the lamp holders.
- 3) Re-install all filters following the instructions on pages 19-23.
- 4) Plug unit into outlet and begin operation.

Replacing the UV lamp



Replacing the Charcoal Filter

Removal

- 1) To remove the charcoal filter, pull it straight up from the Airistar® 500 unit.

Installation

- 1) Insert the new filter in the third position.
- 2) Ensure the color coded label (Red) is facing up and to the left.

Replacing the charcoal filter



General Precautions

- Turn off unit and disconnect it from all sources of electrical power BEFORE performing any service or maintenance.
- Observe all precaution and warning labels on the unit.
- Do not alter or modify the unit in any way.
- Never place liquids on top of the unit.
- Use non-abrasive cleaning products and do not use excessive amounts of liquid to clean your 500 unit.
- Always place the unit on a flat, rigid surface.
- Please use the power supply cord provided or a power supply cord with the following specifications:
 UL Listed (ELBZ) SJT, No. 18 AWG (minimum), VW-1, FT-1, 300 V, 3-conductor cord terminating in a molded attachment plug rated 125 V ac, 15 A (min), grounding type; external cord measures 5.0 – 10.0 ft (1.5 – 3.0 m)
- Always contact an authorized Airistar® distributor for service, or contact Airistar® customer service at +1 800-755-8006 or www.airistar.com.

Chapter

2

FILTER MAINTENANCE

Replacing the HAPA™ Filter

Removal

- 1) To remove the HAPA™ filter, pull it straight up from the Airistar® 500 unit.

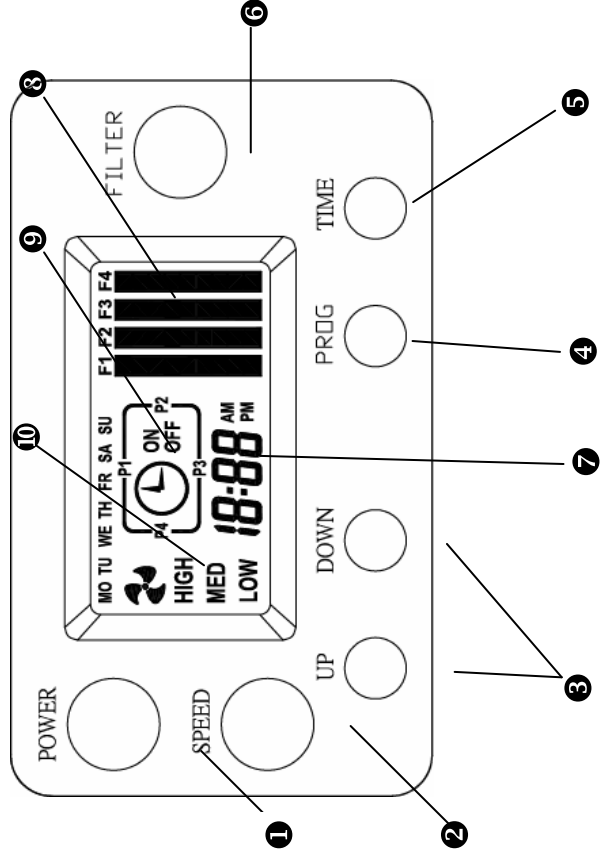
Installation

- 1) Insert the new filter in the second position.
- 2) Ensure the color coded label (Yellow) is facing up and to the left.

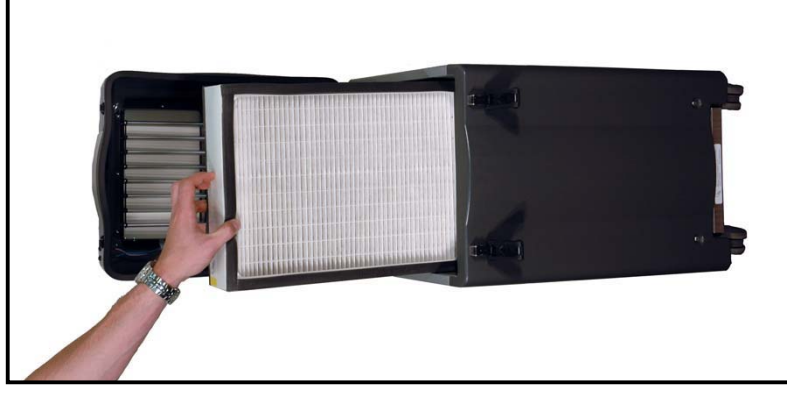
Control Panel Description

Describes the controls and display indications on the Airistar® 500 air purifier

Airistar® 500 Control Panel



Replacing the HAPA™ filter



Replacing the Internal Pre-Filter

Removal

- 1) To remove the internal pre-filter, pull it straight up from the Airistar® 500 unit.

Installation

- 1) Insert the new filter in the first position.
- 2) Ensure the color coded label (Green) is facing up and to the left.

Replacing the Internal Pre-filter



CONTROL PANEL DESCRIPTION

Airistar® 500 Control Panel

Function Buttons and Indicators

Button / Display	Function
1 Power	Turns the unit on and off.
2 Speed	Selects the fan speed.
3 Up / Down	Used to set the day, time or Program on-time/off-time by pressing the UP or DOWN buttons.
4 Prog	Used to select programming modes.
5 Time	Used to set the time and day of the week.
6 Filter	Used to select and clear filter status bars.
7 	Clock icon, Program on/off icons. The Up and Down buttons are used to set the clock time or the programmed on/off time.
8  F1 - External Pre-filter F2 - Internal Pre-filter F3 - HAPA Filter F4 - VOC Filter	Filter status indicators. These 9 segment status bars are programmed to fill up based on the timing of the filter change schedule for light-duty use environments. (See p. 18)
9 	Day of the week icons. Used to display and program the on/off settings by day of the week.
10 	Fan speed display. Speed button selects High, Med or Low fan speed.

Light Emitting Diodes (LEDs)

In addition to the control panel, there are two LEDs on the front of the unit lid. These LEDs are used to indicate the status of the fan motor and the ultraviolet lamp.

LED Indicators

LED	Meaning
Red LED	When lit, this indicates that the ultraviolet lamp has burned out.
Green LED	When lit, this indicates that the unit is powered on.

Replacing the External Pre-Filter

Removal

- 1) To remove the external pre-filter, pull it out from the bottom of the Airistar® 500 unit.

Installation

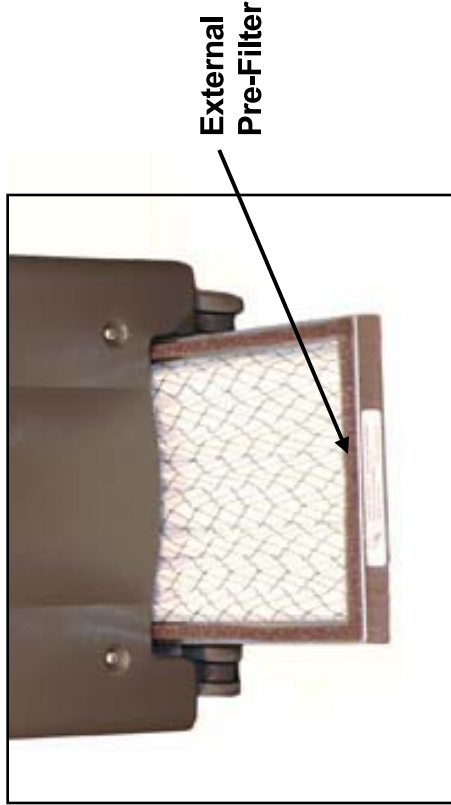
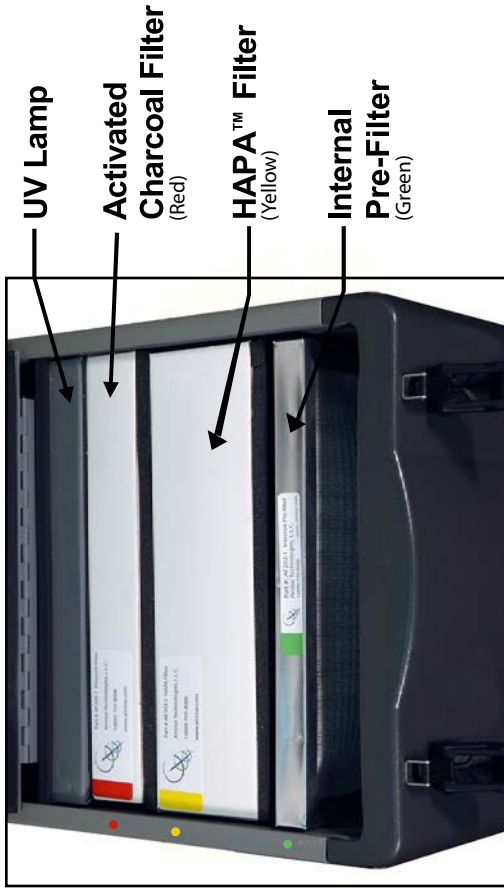
- 1) Position the wire and gasket side of the new filter at the top, or “up” position.
- 2) Slide the filter into the guide rails at the bottom of the unit.

Replacing the External Pre-filter



Filter Locations

Align filters with associated color guides.



Chapter

3

Initial Setup

Describes how to turn on and set up the Airistar® 500 for use

The Airistar® 500 is very easy to setup for use. Setup involves: installing the four casters (wheels) to the base of the unit, removing the pre-filter and bubble wrap from the unit, placing the pre-filter back in the unit (see pg. 20), plugging the unit into an outlet, turning it on and setting the clock and programming modes (if desired).

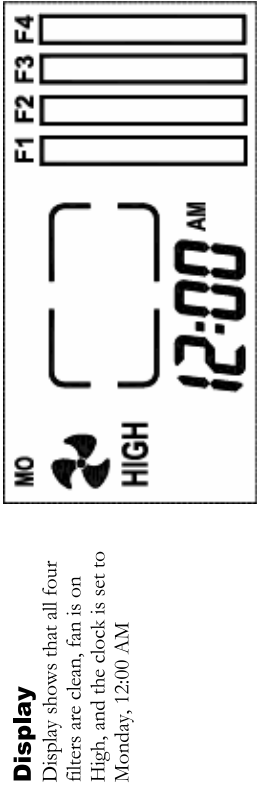
When the Airistar® 500 unit is first plugged in, the  icon and the clock on the LCD will flash for about 5 seconds. Next, the display will show the preset status.

INITIAL SETUP

Turning on the Airistar® 500

Press the **POWER** button once. The fan motor will start on high and the  icon shows on the display. The unit retains this setting unless it is changed.

The control panel/display looks like this at this point:



Display
Display shows that all four filters are clean, fan is on High, and the clock is set to Monday, 12:00 AM

To turn off the Airistar® 500, push the **POWER** button again.

FILTER MAINTENANCE

Filter Replacement Schedule

Filter Type	Filter Part No. Airistar® 500	Replacement Schedule Annual Quantity			
		Residential	Heavy Use	Light Use	Commercial
External Pre-filter	AF 201-1		18/12*	12	24/12**
Internal Pre-filter	AF 202-1		4	3	6
HAPA™ Filter	AF 203-1		1	***	2
Activated Carbon VOC Filter	AF 204-1		4	2	4
UV-C Bulb	AE 116		2	2	2

* Depends on number/type of pets and smoking.
** Depends on environmental factors such as smoking and other particulate.
*** Recommended replacement every 18 to 24 months.
Note: Replacement recommendations are based on a 24/7/365 run rate

Filter Replacement – General Procedures

Follow the procedures below whenever you replace any of the filters or the UV lamps.

- 1) Turn off the unit and disconnect it from all sources of electrical power.
- 2) Allow the blower to stop fully.
- 3) Put gloves on for your protection.
- 4) Unlatch and lift the lid of the unit.
- 5) Unlatch the internal filter lid.
- 6) Remove filters and place in plastic bags for disposal.
- 7) Place new filters in unit; matching color code on filters with the color stickers on the unit to ensure proper installation.
- 8) Close and re-latch lids, re-connect to electrical power and turn the unit on.

Changing the Fan Speed

The Airistar® 500 defaults to the high fan speed setting. To change to the medium or low settings, use the **Speed** button. Each press of the button steps from one speed to the other (high, medium, low).

Note:

When the unit is unplugged, all settings are lost.

Filter Maintenance

Information for maintaining and replacing the filters in the Airistar® 500

The Airistar® 500 filters should be changed on a regular schedule. The table on the following page lists the part numbers of each filter and the recommended replacement schedules for heavy-duty use environments and lighter-duty use environments.

Heavy-duty use: Heavy Smoke Environments, Casinos, Off-Track Betting, Pool Halls, Bingo Halls, Hospitals, Construction, etc.

Lighter-duty use: Homes, Salons, Offices, Banks, Small Restaurants, Assisted Living, etc.

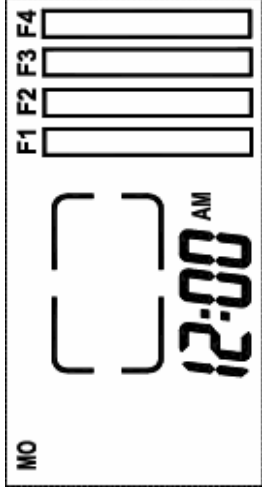
High Setting	
Medium Setting	
Low Setting	

Setting the Day and Time

The Airstar® 500 display defaults to Monday, 12:00 AM when it is plugged in for the first time, or when power is interrupted.

Default Day/Time

Display shows clock is set to Monday, 12:00 AM



The **Time** button is used to set the day of the week and the clock.

Set the Day

- 1) Press the **TIME** button to enter time setting mode.
The **MO** icon flashes
- 2) Press the **UP** or **DOWN** buttons to select the day of the week.
- 3) Press the **TIME** button to confirm the day setting.
The unit goes into clock setup mode (The clock icon  and the default hour should be flashing).

Set the Time

- 4) Press the **UP** or **DOWN** buttons to select the hour.
- 5) Press **TIME** the button to confirm the hour setting.
The clock icon and the minute digits start to flash.
- 6) Press the **UP** or **DOWN** buttons to select the minute.
- 7) Press the **Time** button to confirm the minute setting and exit the time setting mode.

- 10) Press the **Up** and **Down** buttons to select the minutes after the hour that the unit will begin to run.
- 11) Press the **Program** button.
- 12) Press the **Speed** button to set the speed for the rest of the day or to select **Off** for no operation.
- 13) Press the **Prog** button again.
- 14) Use the **Up** and **Down** buttons to select the hour.
- 15) Press the **Prog** button.
- 16) Use the **Up** and **Down** buttons to select the minutes after the hour.
- 17) Press the **Prog** button to complete the programming and exit the programming mode.

CUSTOMIZED PROGRAMMING

You can customize programs by using the **Prog** button, **Speed** button and the Up and Down buttons. Each program must have two events associated. For example, if you program the unit to run High from 7:00pm until 1:00am every day, you must also program the state of the unit for the rest of the day (1:01am-6:59pm).

Setting the First Half of the Program

- 1) Press the **Power** button to turn the power off.
- 2) Press and hold the **Prog** button.
The clock icon , **P1**, **P2**, **P3** or **P4**, fan speed icons, and date all begin flashing.
- 3) Use the **Up** and **Down** buttons to select the Program you wish to modify (**P1**, **P2**, **P3**, **P4**).
- 4) Press the **Prog** button.
The day of the week icons can now be selected.
- 5) Use the **Up** and **Down** buttons to select the day you wish the unit to run. If you wish this program to be effective for the entire week, press **Up** or **Down** until all of the day icons flash.
- 6) Press the **Speed** button to choose the starting speed (press until the High, Med, or Low icon flashes).
- 7) Press the **Prog** button.
The Hour to begin the program can now be selected.
The clock icon  and **On** begin to flash.
- 8) Use the **Up** and **Down** buttons to select the hour that the unit will begin to run.

Setting the Second Half of the Program

- 9) Press the **Prog** button again.
The minutes after the hour can now be selected.

INITIAL SETUP

Program Mode

The Airstar® 500 is provided with four separate program modes. These modes allow you to customize automatic operating modes for the Airstar® 500 based on the time of day and day of the week. For example, you can have the unit run on high from 9:00 am until 5:00 pm Monday thru Friday, and remain at at low setting in the nighttime and weekend hours. These automatic features can save a great deal of electricity and prolong filter life.

Default Program Settings

P1 mode	P2 mode	P3 mode	P4 mode
High Speed Everyday 8:00AM	High Speed Everyday 8:00AM	High Speed Everyday 6:00PM	Low Speed Everyday 6:00AM
Low Speed Everyday 10:00PM	Low Speed Everyday 4:00PM	Low Speed Everyday 4:00AM	High Speed Everyday 10:00PM

Selecting Programs

You can select an existing program (P1-P4) using the **Prog** button.

- 8) Press and hold the **Prog** button for one second.
The clock icon  starts to flash and the **P1**, **On** and the **fan speed icon**  appear.
- 9) Press the **UP** or **DOWN** buttons to select one of the program modes (**P1-P4**).
- 10) Wait for 5 seconds and the selected mode will run.

Note:

When the unit is in program mode, the **Power** button cannot be used to turn it off. You must first press the **Program** button to exit program mode.

Chapter 4

CUSTOMIZED PROGRAMMING

Custom Programming Time Notes (Instructions on the following 2 pages)

Program 1

Program 2

Customized Programming

Describes the procedures for customized programming of the Airstar® 500

The Airstar® 500 program modes may be customized to suit your specific needs. Your environment may have busy times and slow times which require varying levels of air purification. For example, a bar can program the units to go on high speed on the weekend, and low during the week, or vice versa.

Note:

When programming the unit, a button must be pressed at least every six seconds or the unit will exit programming mode. Periodically press either the **Up** or **Down** button to keep programming mode initiated.

Program 3

Program 4