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Airistar® 100GT Air Purifier

# 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 1 year 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.

09/07 SPB

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## TROUBLESHOOTING

### Troubleshooting

#### Unit does not operate:

- Check power switches. Both the green on-off switch and the speed control knob must be in the on position.
- Check that the unit is connected to the power source.
- Check electrical outlet or circuit breakers.
- Ensure that the air duct connects the blower unit and the diffuser.
- Contact your distributor or Airistar customer service.

#### Unit has reduced airflow:

- Check if filters need replacing.
- Check for items blocking the air intake grid.
- Check for occlusions or kinks in the air duct connected to the diffuser.
- Check if diffuser controls are set for maximum airflow.

#### 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](http://www.airistar.com)

**Chapter**

# 6

## Troubleshooting Procedures

*Describes troubleshooting procedures for the Airistar® 100GT*

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**Chapter**  
**1**

# Product Introduction

*General information on the Airistar® 100GT*

**C**ongratulations 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 within your gaming establishment.

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.

Pre-filter	Melt-Blown Fiber Filter	Activated Carbon Filter

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**PRODUCT INTRODUCTION**



- A - Electrostatic Pre-filter
- B - Melt-Blown Fiber Filter
- C - Activated Carbon Filter
- D - Filter Frame
- E - Blower Unit
- F - Control Panel
- G - Connection Tubing
- H - Diffuser

**Three Stage Purification Process:**

Stage	Description
1	Electrostatic Pre-filter - MERV 8
2	Melt-Blown Fiber Filter (MBF) - Rated up to 95% @ 0.3 microns
3	Activated Carbon Filter - Odor and Gas control

Your new air purification unit utilizes the three stages shown above to strip away smaller and smaller particles from the air, creating compounding efficiency. The front of the diffuser directs the clean air at a 50 degree angle towards the patrons to provide an air curtain between smoking patrons and the employee, while the air from the rear of the diffuser is directed straight up to provide the employee with purified air.

**PRODUCT INTRODUCTION**

**MERV 8 Pre-filter** Our pre-filter is MERV 8 pleated media. It is designed to remove larger airborne particles in the range of 3-10 microns in size or larger. This would include substances such as certain types of bacteria, mold and plant spores, as well as lung damaging dust. By extracting these larger particles first; this allows the two remaining filters to collect smaller particulate at a more efficient rate.

**Melt-Blown Fiber Filter Media** Melt-Blown Fiber filter media is the next generation of HEPA filter media. The Melt-Blown Fiber filter media used in the Airistar® 100GT is rated to capture 95% of particles larger than 0.3 microns at airflow ratios that surpass traditional HEPA filters.

**Activated Carbon VOC Filter** VOC's are gases and odors that are emitted from certain solid and liquid compounds. Airistar's multipurpose VOC filter helps eliminate unwanted gases and fumes associated with tobacco products.

**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.

Pre-filter	Melt-Blown Fiber Filter	Activated Carbon Filter

## FILTER MAINTENANCE

### Filter Replacement

#### Removal

- 1) To remove filters, remove the filter box from the purification unit then remove filters from filter frame.

#### Installation

- 1) Follow color coding and directional arrows.  
The pre-filter (Green) goes first with the arrow pointing inside the filter frame. The Melt-Blown Fiber Filter (Yellow) installs second, again with the arrow pointing inside the filter frame. Finally, the Activated Carbon Filter (Red) goes into the filter frame with the arrow pointing inside the filter frame.
- 2) Place the filter frame into the purification unit with the arrow pointing to the left.
- 3) Close door and power up.



*From left to right: Filter frame, Pre-filter (Green), Melt-blown Fiber Filter (Yellow), and Activated Carbon Filter (Red).*

## PRODUCT INTRODUCTION

### 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 unit.
- Always securely mount the unit.
- 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](http://www.airistar.com).

## Chapter

# 2

## Control Panel Description

*Describes the controls for the Airistar 100GT air purifier*

### Airistar® 100GT Control Panel



The Airistar 100GT includes adjustments to control the airflow.

1. Move the levers on the grill of the diffuser toward the outside to increase airflow and toward the center to reduce airflow.
2. Toggle the green switch on the control panel to turn the blower on or off.
3. The speed control knob can be set to High (H); Low (L) or Off (O).

## FILTER MAINTENANCE

### Filter Replacement Schedule

Filter Type	Filter Part No.	Replacement Schedule Annual Quantity	
		Heavy Use	Light Use
Pre-Filter	AF302-1	12 (Monthly)	12 (Monthly)
Melt-Blown Fiber Filter(MBF)	AF303-1	2 (6 Months)	1 (Annual)
Activated Carbon Filter	AF304-1	4 (3 Months)	2 (6 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.

- 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 open the filter door of the unit.
- 5) Pull the filter frame straight out of the unit by the handle.
- 6) Remove filters and place in garbage bag for disposal.
- 7) Place new filters in unit referring to the diagram on the following page.
- 8) Place the filter frame back in the unit with the arrow facing to your left.
- 9) Close and re-latch the filter door.
- 10) Reconnect electrical power and turn unit on.
- 11) Thoroughly wash / sanitize hands after proper disposal of soiled filters.



Chapter

5

## Filter Maintenance

*Information for maintaining and replacing the filters for the Airistar® 100GT*

**T**he Airistar 100GT 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.

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

Chapter

3

## Initial Setup

*Describes how to turn on and set up the Airistar® 100GT for use*

**T**he Airistar 100GT includes brackets for mounting the blower unit to the underside of a horizontal surface (i.e. blackjack table) and two sets of adjustable brackets to mount the diffuser in various orientations. The mounting methods can be adapted to the needs of your particular installation. Please consult your sales representative or Airistar Technologies for support with custom installations.

## Installation of the Airistar® 100GT

Examine the Airistar 100GT blower, diffuser and your installation location and plan your installation methods.

To mount the blower beneath a table with the provided brackets:

1. Determine the mounting location
  - a. Check that power jack and filter door are accessible.)
  - b. A pathway for the air duct to the diffuser will also need to be accommodated.)
2. Use the installation template to locate and pre-drill the screw holes.
3. Install the mounting bracket to the surface.
  - a. Mount with the set screw end of the brackets in the direction from which you will install the blower unit.
  - b. Leave the screws slightly loose for later adjustments.
4. Loosen the set screws on the mounting brackets and slide the blower into position with the air exit nozzle oriented toward the diffuser.
  - a. Tighten the set screws on the mounting brackets to lock the blower unit into position.
  - b. Adjust the mounting brackets slightly as necessary and tighten the mounting screws.

*Note: Other mounting locations are possible with consideration taken for the power jack, filter door and pathway for the air duct to the diffuser.*

To mount the diffuser to the table with the provided mounting brackets:

1. Determine the location and method for mounting the diffuser.

*Note: There are both large and small mounting brackets provided for multiple mounting options.*
2. Use the installation template (provided in kit) to mark the cut out area on the table.

*Note: Be sure to provide clearance to accommodate the mounting brackets and screws.*
3. Check the fit of the diffuser and brackets into the cut out and determine the cut length of the air duct hose.
4. Cut the air duct hose to length.

(The nozzles on the blower and diffuser require approximately a +/- 1/2" tolerance.)
5. Install the air duct hose to the blower and diffuser. Preload but do not tighten the adjustable band clamps.

6. Place the diffuser into position and adjust the mounting brackets to the proper position for your installation.
7. Mark the locations for the mounting screws and drill pilot holes.

(Adjust the mounting brackets for the desired positioning.)
8. Install the mounting screws and complete final adjustments.

*Note: If the diffuser will be mounted through a table (full perimeter cut-out) the face plate will have to be removed with a security screw driver (spanner) and re-installed after the diffuser is mounted through the table. Call your sales representative or Airistar Customer Service if you have any questions about custom mounting.*