Awoco Awoco-FM-3509L/Y

Awoco 36" Air Curtain

USER MANUAL

Model: Awoco-FM-3509L/Y

1. Introduction

The Awoco 36" Elegant Commercial Indoor Air Curtain is designed to create an invisible air barrier over an entrance, effectively isolating the interior and exterior air environments. This helps to block up to 90% of hot or cold air, dust, and smoke from entering or exiting a space. It is a powerful fan and **not an air conditioner**; it does not generate cold or hot air.

Self-adhesive tape install. Apply small screws if needed.

No direct contact, won't be damaged by a door slamming, same as security alarm's door or window magnetic sensors.

Easy Magnetic Switch Installation

- Easily apply to any kinds of swing or sliding doors and windows.
- 12VDC is safer and no hard wired required. No mechanical contact.
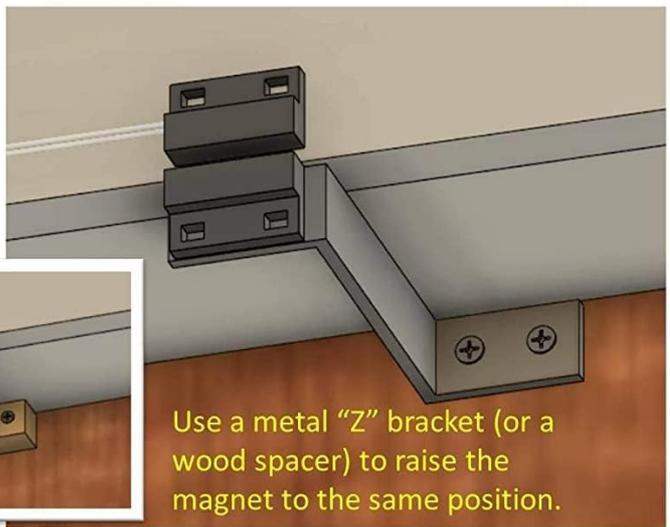- It works even the door closer is not working well, just install closer to the door hinges.

Use a metal "Z" bracket (or a wood spacer) to raise the magnet to the same position.

Image 1.1: The air curtain creates an invisible barrier to separate indoor and outdoor air.

WE SELL Air Curtains

WE DO NOT SELL Air Conditioners

⚠ WARNING ⚠

Air Curtain is NOT an Air Conditioner.
Air Curtain does not generate cold air, it is a fan only!

Image 1.2: Important clarification that the air curtain is not an air conditioner.

2. Safety Information

- Read all instructions before installation and operation.

- Ensure the power supply matches the specifications of the unit (120V 60Hz).

- Do not operate the unit with a damaged cord or plug.

- Keep hands and foreign objects away from the air inlet and outlet during operation.

- This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

- **Warning:** This air curtain is not an air conditioner and will not cool or heat a room. Its primary function is to create an air barrier.

3. Components

The Awoco 36" Air Curtain package includes the following main components:

- Awoco Air Curtain Unit

- Detachable Mounting Plate

- Magnetic Door Switch (with dedicated 2 wires)

- 57" Power Cord with Plug

Image 3.1: Key components including the easy-to-install magnetic switch, 120V power cord with plug, and attached mounting plate.

4. Setup and Installation

Follow these steps for proper installation of your Awoco air curtain:

1. **Prepare the Unit:** Remove the screws from the bottom of the air curtain unit to detach the mounting plate.

2. **Mount the Plate:** Find the studs above your doorway. Securely mount the detachable mounting plate to the wall using appropriate screws. Ensure the plate is level and firmly attached.

3. **Hang the Air Curtain:** Carefully hang the air curtain unit onto the mounting plate. Once in place, secure the unit to the bracket by installing the bottom screws.

Image 4.1: Step-by-step visual guide for air curtain installation.
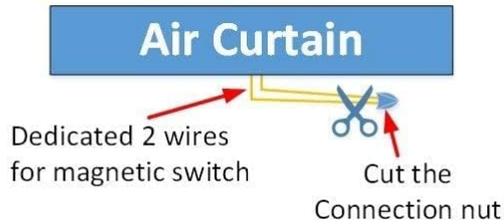
4.1 Magnetic Door Switch Installation

The magnetic door switch allows for automatic operation of the air curtain when the door opens and closes. This feature is optional; the unit can also be operated manually.

- The magnetic switch is 12VDC, making it safe and requiring no hard wiring for its operation.
- It can be applied to any kind of swing or sliding doors and windows.
- There is no direct contact, so it won't be damaged by door slamming, similar to security alarm door or window magnetic sensors.

Awoco Magnetic Switch Controlled Air Curtains
Magnetic Switch Connection Instruction

Step 1: Cut the connection nut off the dedicated 2 wires for the magnetic switch

Air Curtain

Dedicated 2 wires for magnetic switch

Cut the Connection nut

Step 2: Connect the wires one-to-one to the magnetic switch, either side is OK

Air Curtain

Apply electric black tape to seal the connection. 12V low voltage doesn't require hard wired.

Step 3: Place the 2-piece magnetic switch closely on the door frame and panel.

Air Curtain

Place them on the door's middle top, side, etc. Test to find the perfect position to place the magnetic switch. If not on the same surface, raise one piece with a small piece of wood.

For double doors, connect the 2 wires to both magnetic switches one-to-one in parallel.

Air Curtain

1 air curtain comes with 1 set of magnetic switch for 1 door only.
If you have double doors, please purchase an extra magnetic switch (Model no. MAG-SW)

Image 4.2: Guide for installing the magnetic switch using self-adhesive tape or small screws, and using a Z-bracket if needed.

4.2 Magnetic Switch Connection Instructions

To connect the magnetic switch to the air curtain:

1. **Cut Connection Nut:** Cut the connection nut off the dedicated two yellow wires for the magnetic switch extending from the air curtain.

2. **Connect Wires:** Connect the two wires from the air curtain to the magnetic switch wires one-to-one. Either side of the magnetic switch is acceptable.

3. **Seal Connection:** Apply electrical tape to seal the connections. The 12V low voltage does not require hard wiring.

4. **Position Switch:** Place the two-piece magnetic switch closely on the door frame and panel. Test to find the perfect position. If not on the same surface, use a small piece of wood or a metal "Z" bracket to raise one piece.

5. **Double Doors:** For double doors, connect the two wires from the air curtain to both magnetic switches in parallel.

Image 4.3: Detailed steps for connecting the magnetic switch to the air curtain, including parallel connection for double doors.

5. Operating Instructions

The Awoco air curtain offers flexible operation modes:

- **Speed Control:** The unit features a Lo/Off/Hi switch to select between high and low speeds.
- **Magnetic Door Switch Operation:** If the magnetic door switch is installed, the air curtain will automatically turn on when the door is open and turn off when the door is closed.
- **Continuous Operation:** If the magnetic door switch is not installed, you can press the Lo/Off/Hi speed switch to turn on the unit for continuous running (up to 8 hours).
- **Adjustable Air Deflector:** The air deflector can be adjusted to optimize performance and direct the airflow as needed.
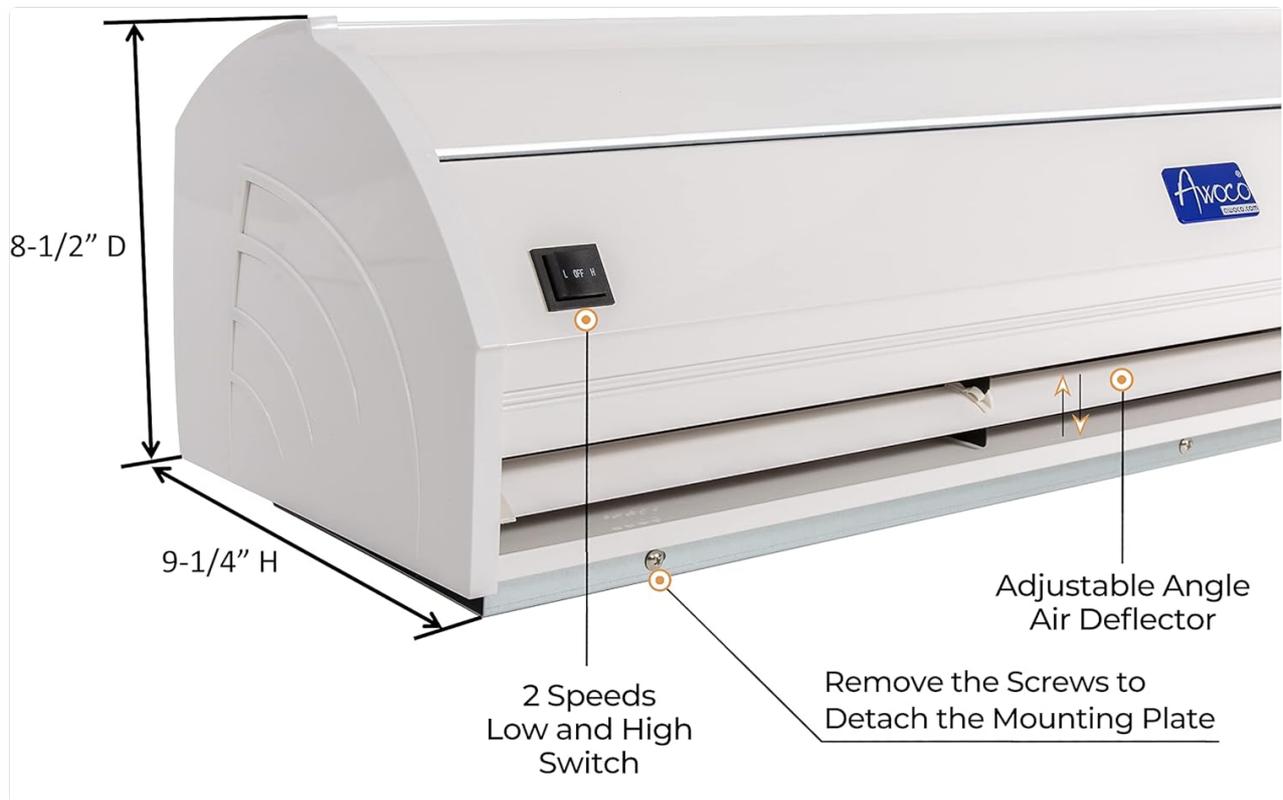
8-1/2" D

9-1/4" H

2 Speeds
Low and High
Switch

Adjustable Angle
Air Deflector

Remove the Screws to
Detach the Mounting Plate

Image 5.1: The side profile highlights the 2-speed switch and the adjustable angle air deflector.

INSTALLATION STEP

① Remove the screws, and take off the mounting plate

② Find the stud, and install mounting plate on the wall.

③ Hang the air curtain and lock the bottom screws

Image 5.2: Overview of the Lo/Off/Hi switch, magnetic door switch function, and optional wall switch installation, showing low (1968 FPM) and high (2559 FPM) speeds.

6. Maintenance

Regular maintenance ensures optimal performance and longevity of your air curtain.

- **Cleaning the Air Inlet:** The upgraded powder-coated metal grille air inlet is designed for easy cleaning. Periodically wipe down the grille to prevent dust buildup, which can restrict airflow.

- **General Cleaning:** Use a soft, damp cloth to clean the exterior of the unit. Do not use abrasive cleaners or solvents.

- **Inspection:** Periodically inspect the power cord and plug for any signs of damage. Ensure all mounting screws remain tight.

TOP VIEW

Upgraded Powder Coated Metal Grille Air Inlet

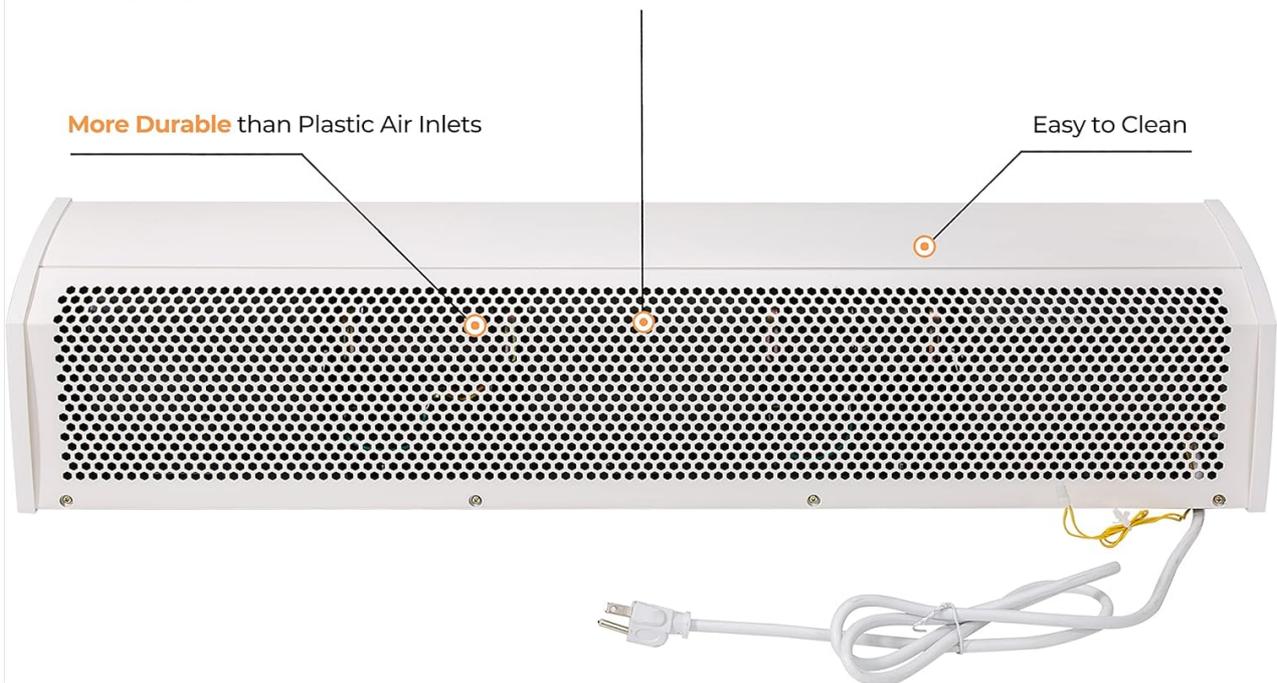More Durable than Plastic Air Inlets

Easy to Clean

Image 6.1: Top view illustrating the upgraded powder-coated metal grille air inlet, which is more durable and easy to clean.

7. Troubleshooting

If you encounter issues with your Awoco air curtain, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Unit does not turn on.	No power supply. Magnetic switch not properly aligned or connected. Unit switch is in 'Off' position.	Check if the power cord is securely plugged in. Verify power outlet is functional. Ensure magnetic switch components are closely aligned when the door is closed. Check magnetic switch wiring. Set the Lo/Off/Hi switch to 'Lo' or 'Hi'.
Low airflow.	Air inlet or outlet blocked. Unit is on 'Lo' speed setting.	Clean the air inlet grille and ensure the outlet is clear. Switch the unit to 'Hi' speed.
Unusual noise during operation.	Loose mounting. Obstruction in fan.	Ensure the unit is securely mounted to the wall. Turn off and unplug the unit, then carefully check for any foreign objects inside. If problem persists, contact support.

If the problem persists after attempting these solutions, please contact Awoco Professional Tech Support for assistance.

8. Specifications

Detailed technical specifications for the Awoco 36" Air Curtain:

- **Product Dimensions:** 35.5" (L) x 8.5" (D) x 9.25" (H)
- **Item Weight:** 28.7 pounds
- **Voltage:** 120 Volts
- **Frequency:** 60Hz
- **Max Power:** 300W
- **Min Power:** 270W
- **High Speed Airflow:** 907 CFM (2559 FPM)
- **Low Speed Airflow:** 742 CFM (1968 FPM)
- **Noise Level (High Speed):** 58 dB
- **Noise Level (Low Speed):** 56 dB
- **Power Source:** Corded Electric
- **Manufacturer:** Awoco
- **Model Number:** Awoco-FM-3509L/Y

Image 8.1: Illustration of the powerful motor and fan wheel designed for efficient airflow and reduced noise.
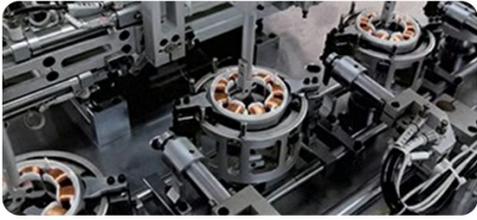
9. Warranty and Support

Awoco is committed to providing high-quality products and excellent customer service.

- **Warranty:** Parts, repair, or exchange are covered within 1 year from the date of purchase.
- **Professional Tech Support:** Awoco offers professional support from their Los Angeles, California office. For any inquiries, technical assistance, or warranty claims, please contact their customer service.
- **Replacement Parts:** All replacement parts are available, ensuring easy maintenance and repair throughout the product's lifespan.

Why Choose Awoco?

Quality and Durability

Awoco air curtains are built to last, and all replacement parts are available, ensuring easy maintenance and repair.

Fast Support

Awoco offers professional support in the Los Angeles, California, providing prompt and efficient support for our products.

Image 9.1: Awoco's commitment to quality, durability, and fast customer support.

For more information or to purchase additional accessories, visit the Awoco Store on Amazon.