



AIR CURTAINS

Slimline Models: FM-1209T, FM-1210T, FM-1212T





STOP and Read! Test before installing

- 1. Do NOT plug in power cord to power source, use a screw driver to rotate the fan wheels.
- 2. If the fan doesn't rotate smoothly, pull the side cover off, and pull the front bars. Remove the side panel screws and the motor's shaft screw to remove the fan wheel.
- 3. Reseat the fan wheel bearings and align the motor to fix the issues.
- 4. Plug in 120V power source (some old air curtains might use 240V, verify the power voltage if not sure); press the switch to H or L to test it. If the air curtain works normally, refer to section 3 through 7 to install the air curtain. Refer to section 10 for technical support.
- 5. If the fan wheel is broken, contact Awoco (refer to section 10) to get the fan wheel replacement.
- 6. After installation, if the air curtain doesn't run, first step is to check the magnetic switch. Refer to section 7 for troubleshooting.

PLEASE READ AND SAVE THESE INSTRUCTIONS.

Strongly recommend to test the unit before installation for any defective or damage during shipment.

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, READ THE FOLLOWING CAREFULLY before attempting to assemble, install, operate or maintain the product.

- A. Always disconnect, lock and tag power source before installing or servicing product. Failure to disconnect power source can result in fire, shock or serious injury.
- B. Installation work and electrical wiring must be done by qualified person(s) in accordance with all applicable codes and standards, including fire-rated construction.
- C. When cutting or drilling into wall or ceiling, do not damage electrical wiring and other hidden utilities.
- D. To reduce the risk of fire or electric shock, do not use this fan with any solid-state speed control device
- E. Repair and maintenance operations can only be performed by qualified personnel.
- F. Verify and ensure the rated voltage and frequency (please refer to the rating label) of the air curtain is in compliance with the mains supply.
- G. Make sure the air curtain is securely mounted on the wall; otherwise, the air curtain may fall and injury to persons.

CONTENTS

1.	PRODUCT INTRODUCTIONS	1
2.	INSTALLATION PLANNING & CAUTIONS	2
3.	INSTALLATION INSTRUCTIONS	3
4.	TECHNICAL PARAMETER	4
5.	WIRING DIAGRAM	5
6.	OPTIONAL MAGNETIC SWITCH INSTALLATION	5
7.	TROUBLESHOOTINGS	7
8.	OPERATING INSTRUCTIONS	7
9.	MAINTENANCE AND CLEANING	8
10.	SUPPORT AND CONTACT	8

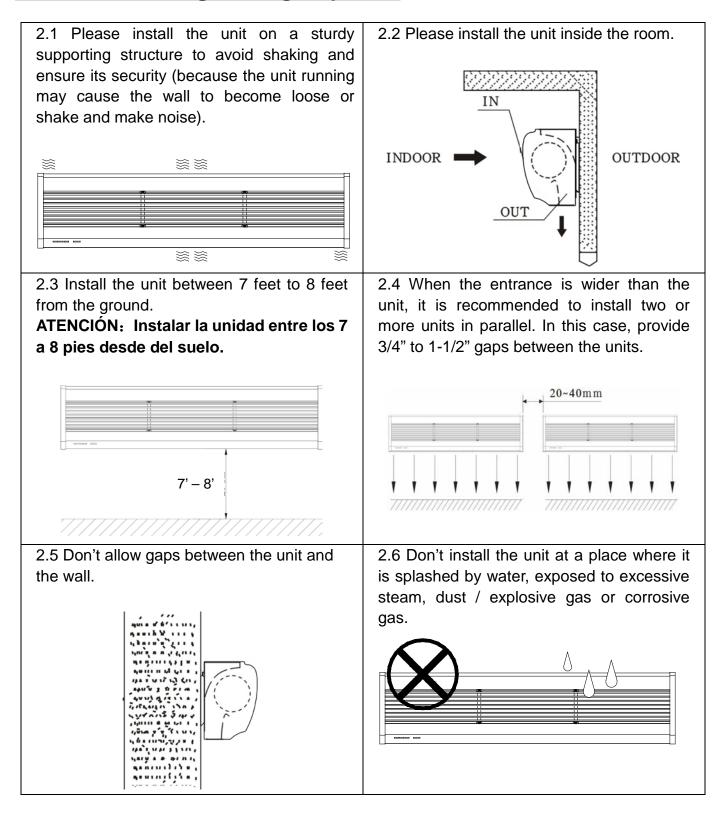
1. PRODUCT INTRODUCTIONS

Air curtains are widely installed at the entrances of supermarket, theater, meeting room, hotel, office room, storage room etc. They can reduce penetration of insects, outside dust, unconditioned air into a conditioned space by forcing an air stream over the entire entrance to create a comfortable environment for you.

2. INSTALLATION PLANNING & CAUTIONS

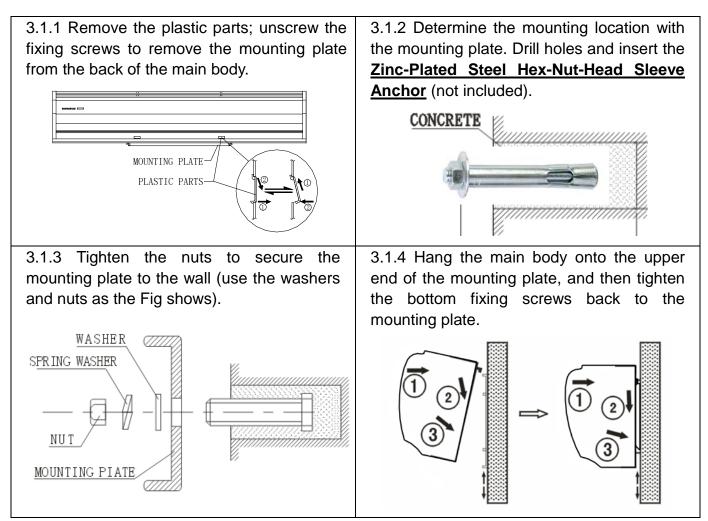
Must observe the following when installing air curtains:

Strongly recommend to test the unit before installation for any defective or damage during shipment.

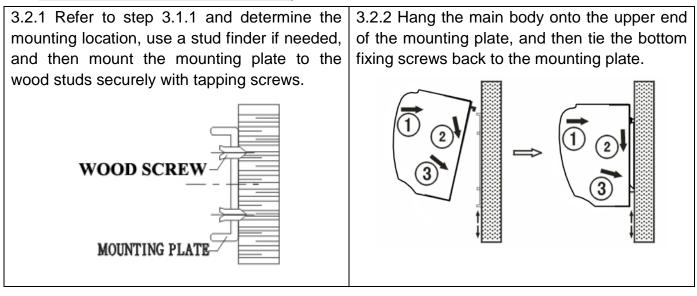


3. INSTALLATION INSTRUCTIONS

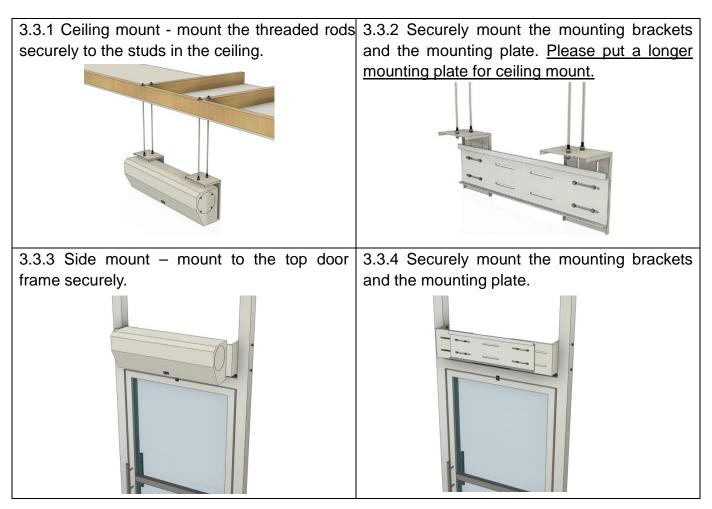
A. Installing on the concrete wall:



B. Installing on the wooden wall: (Note: Make sure the screws are secured in the wood studs, drill holes on mounting plate to align to the wood studs, and attach an extra wood frame to the wall if needed.)



C. Ceiling mount or side mount: (Note: The mounting brackets are available to purchase.)



Note: This air curtain should be installed indoor, should not have moisture, water, rain, or snow reachable. Consult with your electrical professional for 120V electrical hard wiring.

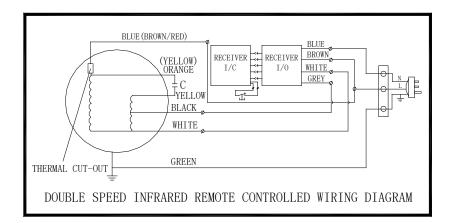
WARNING: Make sure the air curtain is securely mounted on the wall; otherwise, the air curtain may fall and injury to persons.

4. TECHNICAL PARAMETER

Model	•,	Voltage		Current (A)	Max air velocity (FPM)	Air volume (CFM)		Noise level (dB)		Net weight
No.		(V~Hz)				Н	L	Н	L	(LĎ)
FM-1209T	38	120V, 60Hz	140	1.46	2165 (H), 1772 (L)	1112	874	57	55	22.0
FM-1210T	42		190	1.98		1271	1033	58	56	24.3
FM-1212T	50		200	2.08		1510	1271	58	56	27.6

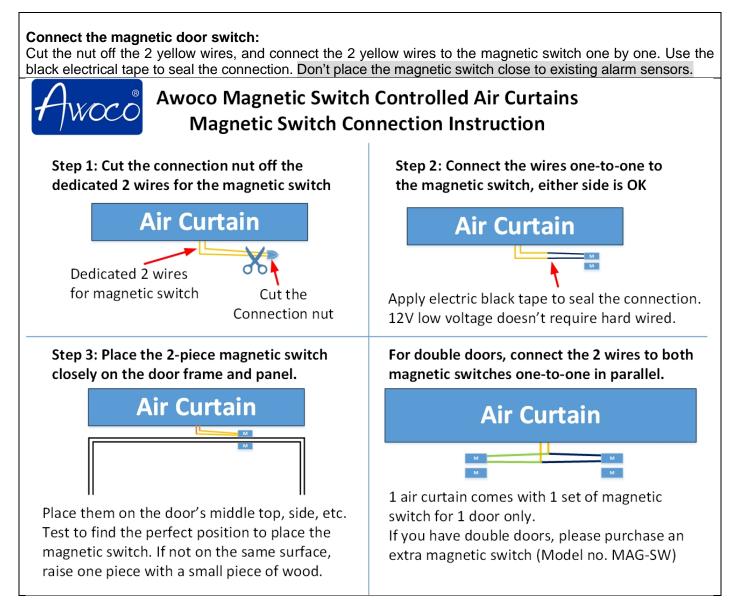
Note: The data are subjected to change without notice due to product development.

5. WIRING DIAGRAM



6. OPTIONAL MAGNETIC SWITCH INSTALLATION

This air curtain comes with a magnetic door switch, contact seller or Awoco if you are missing a magnetic switch. The dedicated 2 wires (Yellow) are to connect to the magnetic switch. Note: Keep the 2 wires connected (closed) if the magnetic switch is not used.





Note: Don't place the magnetic switch close to existing alarm sensors. The existing alarm sensor magnet will interfere with this magnetic door sensor.

7. TROUBLESHOOTINGS

Failure symptom	Possible causes	Troubleshoot and solution				
Fan wheel is broken	Damaged during shipment	If the fan wheel is broken and your purchase is from an authorized seller, contact Awoco to get a fan wheel replacement. <u>Changing a fan wheel is not difficult.</u>				
Fan wheel is stuck or generates strange noise	The fan wheel is not seated properly	Please follow the instruction to open the side cover and front grille bars. Check if the fan wheels are touching something. And open the side panel to reseat the fan wheels to the correct positions.				
The magnetic switch isn't function correctly sometimes.	The magnetic switch is defective or close to an alarm sensor	Don't place the magnetic switch close to an alarm sensor. The alarm sensor magnet will interfere with it. Remove the magnetic switch connection and test if the magnetic switch is defective.				
The air curtain doesn't turn on. (Make sure your	The magnetic switch is defective or loosen connection	Remove the magnetic switch connection, directly connect the 2 yellow wires together then test the air curtain. 80% of the failure is due to the magnetic switch setup. Don't use oversize screws, and make				
power outlet is 120V before plugging in. Some old air curtains might use 240V)	Circuit board failure	sure the connection is secure. Toggle the magnetic switch and the switch buttons; hear if "Tic-Tac" sounds from the relay on the circuit board. No sound means no power to motor from circuit board.				
Remote control is not working	Remote control is defective	Make sure the batteries are installed correctly.				
Motor doesn't run. But if push the fan wheel, motor slowly rotates or rotates reversely	Startup capacitor is not connected securely or defective	Check if the 2 yellow/orange wires securely connect to the capacitor under the motor. Remove the fan wheels and motor to get access if needed.				
After above troubleshoot processes, motor still doesn't turn on	Motor is defective	This chance is very low but it might happen. Use Ohm meter to measure the continuity between motor's white wire and the blue wire to check if it is open. Open means defective.				

Feel free to contact Awoco technical support at 1-888-412-3428 if you need help. Awoco has all the parts for 1 year limited warranty, including fan wheels, magnetic switches, remote controls, circuit boards, motors, etc.

8. OPERATING INSTRUCTIONS

- 8.1 Connect power (120V 60Hz) to the unit.
- 8.2 Press the button on the remote control or the switch buttons on the unit to turn on the unit and select the speed. [L] Low speed, [H] High speed.
- 8.3 Adjust the air deflector to slightly outward at about 10 to 15 degrees to obtain optimum effect.

9. MAINTENANCE AND CLEANING

WARNING:

- A. Any service is to be performed only by qualified personnel who are familiar with local codes and regulations and are experienced with this type of product.
- B. Always unplug or disconnect the appliance from the power supply before servicing or cleaning the unit.
- C. Never use petrol, benzene, thinners or any other such chemicals for cleaning the unit.
- D. Don't allow water or any liquid to enter the motor.
- 9.1. Use the unit at the rated voltage and frequency indicated on the rating label.
- 9.2. Disconnect power source before unit installation or maintenance service.
- 9.3. Routine maintenance must be done every year.
- 9.4. Plastic parts should be cleaned with mild soap water, thoroughly remove soap film with a clean damp cloth.
- 9.5. Wipe the exterior surfaces of the fan with a moistened cloth with a solution of mild detergent and water.
- 9.6. Dry the case with a soft dry cloth before operating the unit.

10. SUPPORT AND CONTACT

Contact your local seller for exchange or repair.

Visit www.awoco.com for most updated information.

Email to sales@awoco.com or call 1-888-412-3428 for technical support and sales activity.