



Super Power Models: FM-1506SA1, FM-1509SA1, FM-1510SA1,

FM-1512SA1, FM-1515SA1, FM-1518SA1





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 from the air outlet below the L/Off/H switch.
- 2. If the fan doesn't rotate smoothly, remove the screws and take off the front cover.
- 3. Remove the side panel's screws and reseat the fan wheel bearings and align the motor to fix the issues. Then replace the front cover back with tighten the screws.
- 4. Plug in 120V power source (some old air curtains might use 240V, verify the power voltage if not sure); press the front 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.

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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 No.	Max entry opening	Voltage (V~Hz)	Power (W)	Current (A)	(A) Velocity		Air volume (CFM)		se el 3)	Net weight
	(Inch)			(FPM)	Н	L	Н	L	(Lb)	
FM-1506SA1	26	-	230	2.40		785	628	57	55	26.5
FM-1509SA1	38		300	3.13		1177	942	58	56	33.1
FM-1510SA1	44	120V,	350	3.65	2559 (H),	1354	1059	58	56	37.5
FM-1512SA1	50	60Hz	350	3.65	1968 (L)	1648	1295	59	57	43.0
FM-1515SA1	62		400	4.17		2119	1648	60	58	48.5
FM-1518SA1	74		600	6.25		2354	1884	61	59	61.7

Note: ETL certified models have 1 speed only, which is the High speed. 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	If the fan wheel is broken and your purchase is from
	shipment	an authorized seller, contact Awoco to get a fan wheel
		replacement. Changing a fan wheel is not difficult.
Fan wheel is stuck	The fan wheel is	Please follow the instruction to open the front cover.
or generates	not seated	Check if the fan wheels are touching something. And
strange noise	properly	open the side panel to reseat the fan wheels to the
		correct positions.
The magnetic	The magnetic	Don't place the magnetic switch close to an alarm
switch isn't function	switch is defective	sensor. The alarm sensor magnet will interfere with it.
correctly	or close to an	Remove the magnetic switch connection and test if
sometimes.	alarm sensor	the magnetic switch is defective.
The air curtain	The magnetic	Remove the magnetic switch connection, directly
doesn't turn on.	switch is defective	connect the 2 yellow wires together then test the air
	or loosen	curtain. 80% of the failure is due to the magnetic
(Make sure your	connection	switch setup. Don't use oversize screws, and make
power outlet is		sure the connection is secure.
120V before	Check if the front	After a long period of time, the L/Off/H (or On/Off)
plugging in. Some	switch is function	switch might be burnt out. Please test the switch.
old air curtains	Circuit board	Toggle the magnetic switch and the front switch; hear
might use 240V)	failure or no power	if "Tic-Tac" sounds from the relay on the circuit board.
	to circuit board	No sound means no power to motor from circuit
		board. Please check if the power gets into the
Motor doesn't run.	Ctartur conceitor is	IN_L(Hot) and IN_N(Neutral) pins.
	Startup capacitor is	Check if the 2 yellow/orange wires securely connect
But if push the fan wheel, motor slowly	not connected	to the capacitor under the motor. Remove the fan
rotates or rotates	securely or defective	wheels and motor to get access if needed.
reversely	Gelective	
After above	Motor is defective	This chance is very low but it might happen.
troubleshoot		Use Ohm meter to measure the continuity between
processes, motor still doesn't turn on		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, circuit boards, motors, etc.

8. OPERATING INSTRUCTIONS

- 8.1 Connect power (120V 60Hz) to the unit.
- 8.2 Press the switch to the left or right to turn on the unit. [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.