INSTALLATION INSTRUCTIONS

AIR CURTAINS

Models:

FM-3509-L/Y, FM-3510-L/Y, FM-3512-L/Y, FM-3515-L/Y, FM-3518-L/Y, FM-3520-L/Y

Thanks for purchasing this Air Curtain.

PLEASE READ AND SAVE THESE INSTRUCTIONS.

WARNING – TO REDUCE THE RISK OF FIRE, ELECTRIC SHOCK, OR INJURY TO PERSONS, OBSERVE THE FOLLOWING:

A. **Always disconnect, lock and tag power source before installing or servicing. 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.**
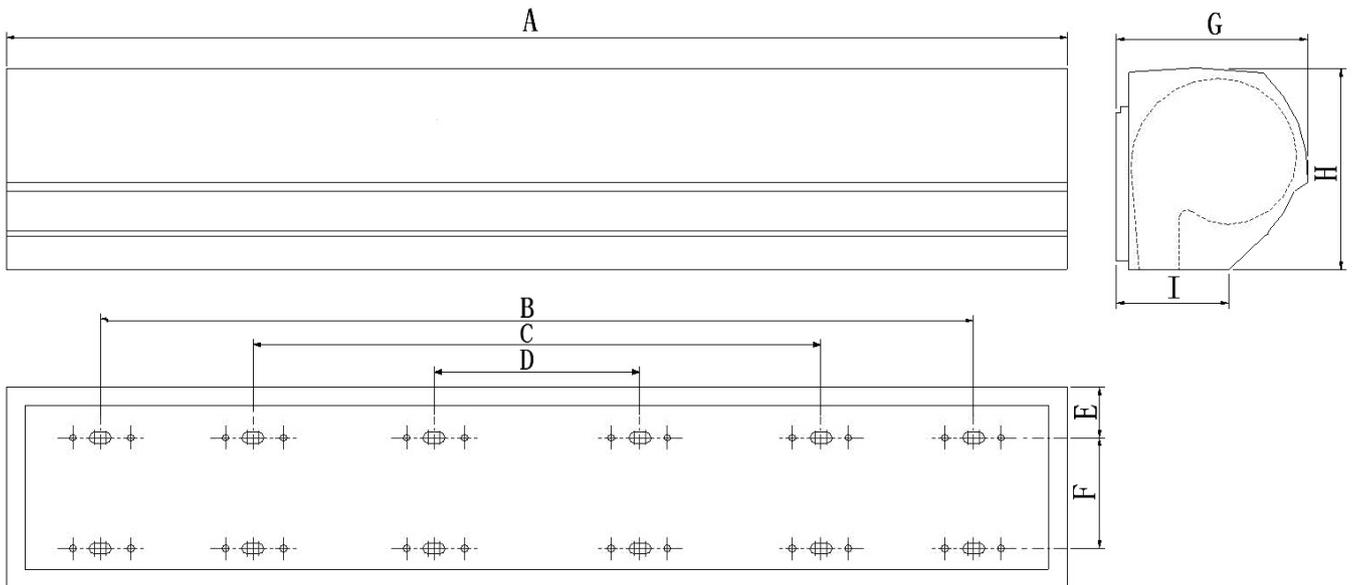
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1. PRODUCT INTRODUCTIONS

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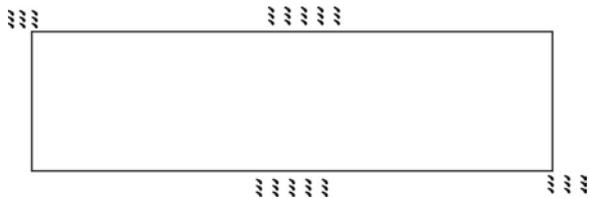
2. INSTALLATION DIMENSIONS

UNIT: mm

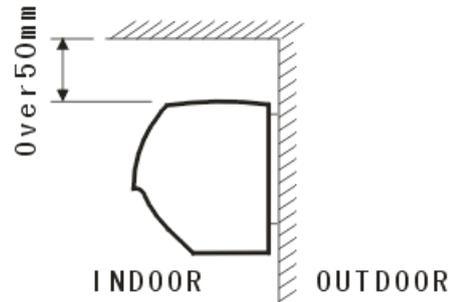| MODEL	A	B	C	D	E	F	G	H	I
FM-3509-L/Y	900	---	695	---					
FM-3510-L/Y	1000	---	695	---					
FM-3512-L/Y	1200	---	990	295					
FM-3515-L/Y	1500	---	1285	504	74	100	215	230	123
FM-3518-L/Y	1800	1580	885	210					
FM-3520-L/Y	2000	1580	885	210					

3. INSTALLATION CAUTIONS

Must observe the following when installing air curtains:

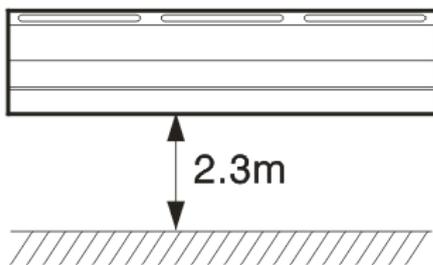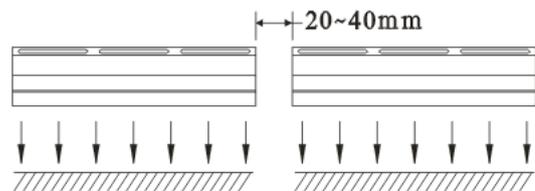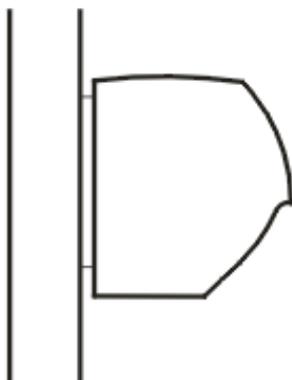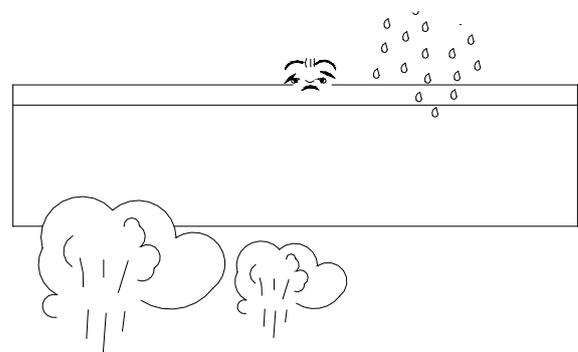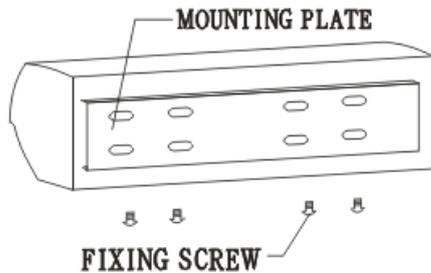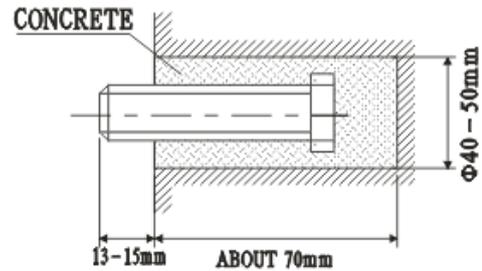|	
3.1 Please install the unit on a sturdy supporting structure to avoid shaking and ensure its security (because the unit running may cause the wall to become loose or shake and make noise).	3.2 Please install the unit inside the room.
3.3 Don't install the unit too low, no less than 2.3 meters from the ground. **ATENCIÓN ： No instale la unidad demasiado bajo, no menos de 2,3 metros del suelo.**	3.4 When the entrance is wider than the unit, it is recommended to install two or more units in parallel. In this case, provide 20-40mm gaps between the units.
3.5 Don't allow gaps between the unit and the wall.	3.6 Don't install the unit at a place where it is splashed by water, exposed to excessive steam, explosive gas or corrosive gas.

4. INSTALLATION INSTRUCTIONS
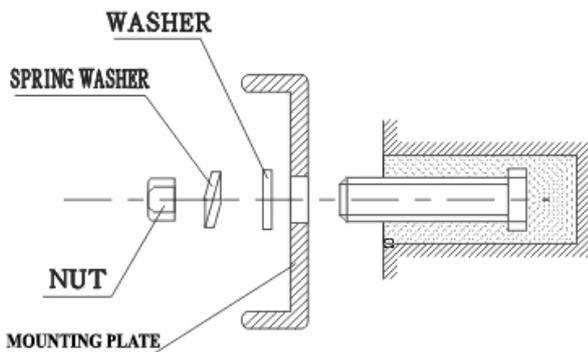
A. Installing on the concrete wall:

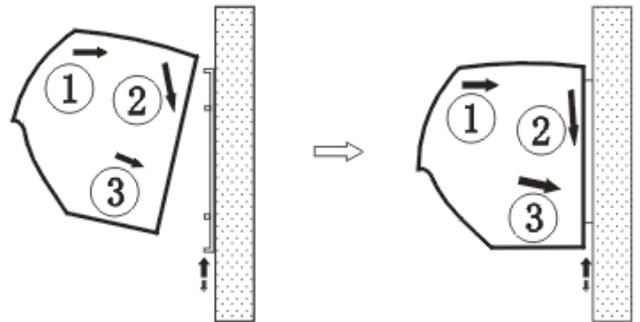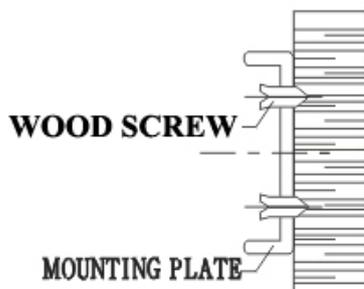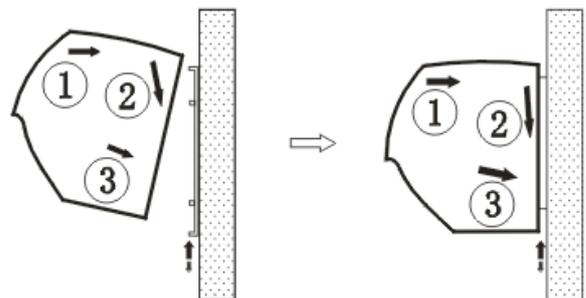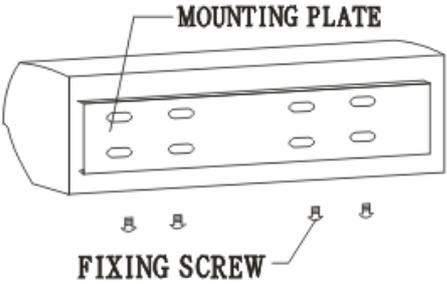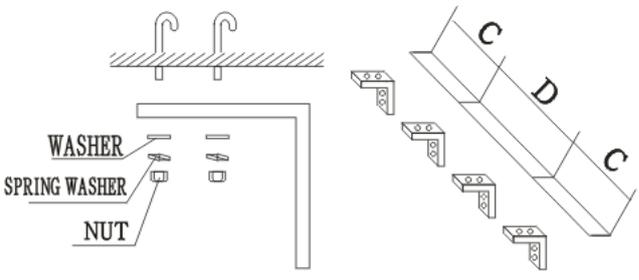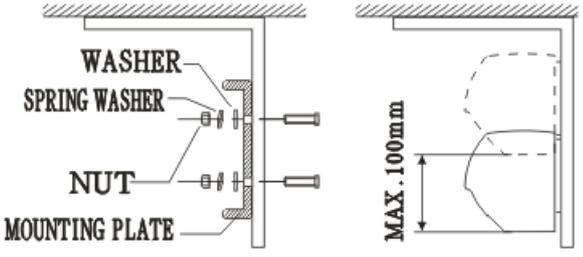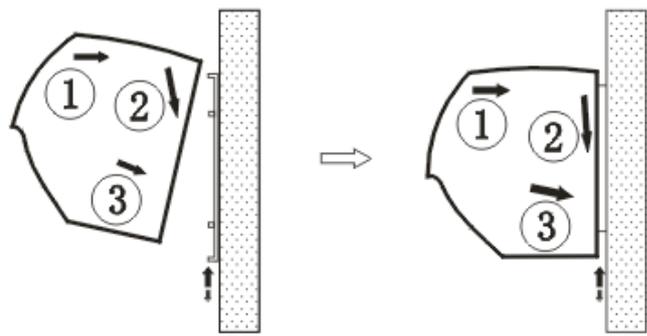| 4.1.1 Unscrew the fixing screws to remove the mounting plate from the back of the main body.	4.1.2 Determine the mounting location with the mounting plate. Secure the bolts in place. (Fill cement into the bolt holes if needed)
MOUNTING PLATE FIXING SCREW	CONCRETE $\Phi 40 - 50mm$ 13–15mm ABOUT 70mm
4.1.3 Tighten the nuts to secure the mounting plate to the wall after cement setting (use the washers and nuts as the Fig shows).	4.1.4 Hang the main body onto the upper end of the mounting plate, and then tighten the bottom fixing screws back to the mounting plate.
WASHER SPRING WASHER NUT MOUNTING PLATE	① ② ③ ⇒ ① ② ③

B. Installing on the wooden wall:

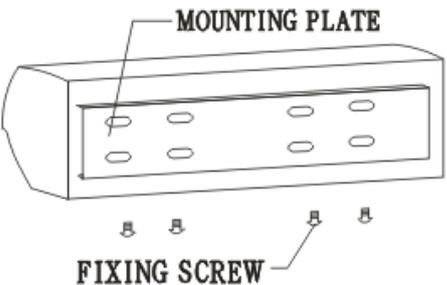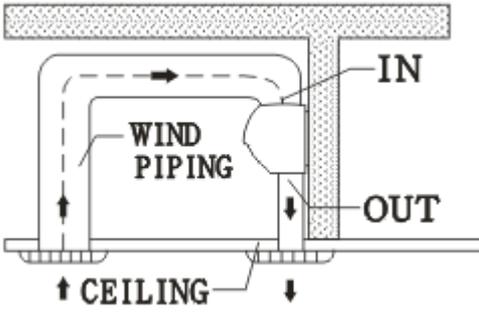| 4.2.1 Refer to step 4.1.1 and determine the mounting location with the mounting plate, then securely mount the mounting plate to the wooden wall with tapping screws.	4.2.2 Hang the main body onto the upper end of the mounting plate, and then tighten the bottom fixing screws back to the mounting plate.
WOOD SCREW MOUNTING PLATE	① ② ③ ⇒ ① ② ③

C. Installing from the ceiling:

4.3.1 Remove the mounting plate from the main body as per the step 4.1.1	4.3.2 Securely mount the ceiling brackets (not included) as the Fig shows.
MOUNTING PLATE FIXING SCREW	WASHER SPRING WASHER NUT C D C
4.3.3 Fix the mounting plate to the ceiling brackets and tighten it securely as the Fig shows. The position of the mounting plate can be adjusted in vertical direction according to need, but the max distance is 100mm.	4.3.4 Hang the main body onto the upper end of the mounting plate, and then tighten the bottom fixing screws back to the mounting plate.
WASHER SPRING WASHER NUT MOUNTING PLATE MAX.100mm	1 2 3 ⟹ 1 2 3

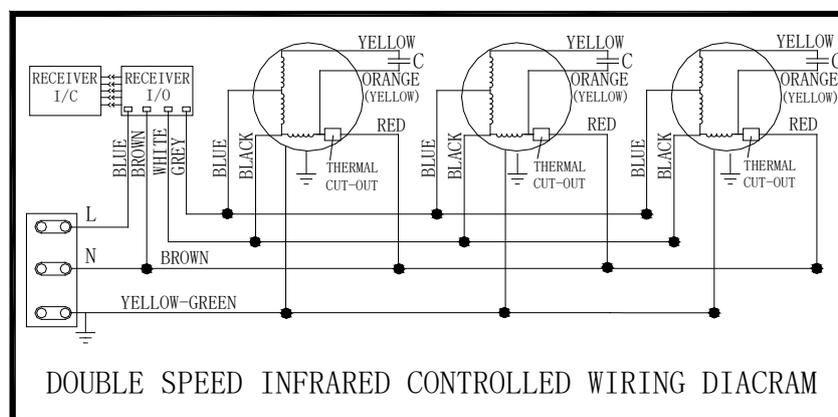## D. Installing above the ceiling

4.4.1 Fix the air curtain as per the procedure for installing on the concrete wall.	4.4.2 Then pipe as below Fig. Instructs.
MOUNTING PLATE FIXING SCREW	IN WIND PIPING OUT CEILING

5. TECHNICAL PARAMETER

Model	Volt. (V~)	Freq (Hz)	Max input power (W)		Max air velocity (m/s)		Air volume (m³/h)		Noise level (dB)		Net weight (Kg)
			H	L	H	L	H	L	H	L	
FM-3509-L/Y	110	60	320	270	16	13	1100	900	52	49	13.0
FM-3510-L/Y			350	300			1200	1000	52	49	13.5
FM-3512-L/Y			410	360			1500	1200	53	50	15.5
FM-3515-L/Y			520	470			1900	1500	55	52	20.0
FM-3518-L/Y			610	500			2280	1800	57	55	23.5
FM-3520-L/Y			630	530			2520	2100	58	56	27.0

6. WIRING DIAGRAM

DOUBLE SPEED INFRARED CONTROLLED WIRING DIACRAM

7. OPERATING INSTRUCTIONS

7.1 Connect power to the unit.

7.2 Press the [on/off] button on the air curtain to turn it on at default high speed or turn it off. Press the button [H] / [L] to select suitable speed, button [L] - Low speed, [H] - High speed. You can also press the [on/off] button on the remote control to turn on the air curtain at default high speed, press it again to switch the unit to low speed, and press again to turn it off.

7.3 Adjust the air deflector to obtain optimum effect.

8. 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.**

8.1. Use the unit at the rated voltage and frequency indicated on the rating label.

8.2. Disconnect power source before unit installation or maintenance service.

8.3. Routine maintenance must be done every year.

8.4. Plastic parts should be cleaned with mild soap water, thoroughly remove soap film with a clean damp cloth.

8.5. Wipe the exterior surfaces of the fan with a moistened cloth with a solution of mild detergent and water.

8.6. Dry the case with a soft dry cloth before operating the unit.