

Installation Details



A) Installation on the wall

Remove the mounting plate. It can be removed by loosening the setscrew on the back of the main body.

Secure the bolts in the proper positions. Decide the positions on the mounting plate and pour cement into the holes.

When the cement has hardened, fit the mounting plate. Use the washer and nut in the way as shown.

Install the main body. Set the main body onto the upper end of the mounting plate and secure it as shown on the right.

B) Hanging from the ceiling

Remove the mounting plate. It can be removed by loosening the setscrew on the back of the main body.

Secure the fitting as shown in fig below.

Set the mounting plate on the fittings (use the bolts attached to the fittings as in fig.) When the fittings are used for hanging the unit from the ceiling, the mounting plate position can be adjusted by use of the auxiliary as in fig.

Do the same as for the method A to install the main body.

Model	A	B	C
FM15-06	522	261	0
FM15-09	820	282	256
FM15-12	1000	250	500

Installation Precautions

Install the unit in a sturdy place free from vibration. Do not allow gaps between the Air Curtains unit and the wall.

When hanging it from the ceiling, use optional fittings. Unit should be installed at a height of not more than 3m from bottom of unit.

When the entrance is wider than the Air Curtains

it is recommended to install two or more units in parallel.

Provide 20-40mm gap between Air Curtains.

Do not install units in a place where it is splashed by water, exposed to excessive steam, explosive gas or corrosive gas.

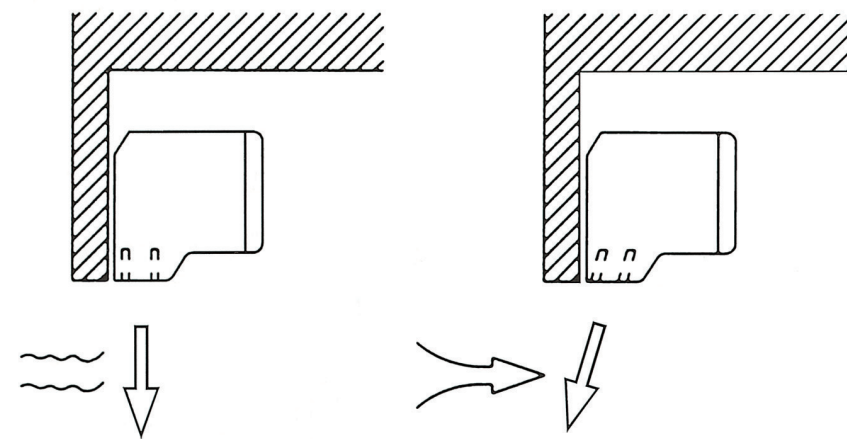
Always install the unit on the indoor side.

Maintenance



Operation

- 1) Turn on the switch.
- 2) The switch has 2 positions of high and low.
- 3) Adjust the air direction — shift plate according to the conditions as shown on right.



Precautions while maintenance

- 1) Disconnect power source before working on unit. Routine maintenance must be done every year.
- 2) Use the unit at the rated voltage and frequency indicated on the name plate.
- 3) Never use petrol, benzene, thinner or any other such chemicals for cleaning the air curtain.
- 4) Do not allow water to enter the motor.

For further information, please contact

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Create an invisible door to safeguard cooling or heating of conditioned areas and be assured of a dust-proof, insect-free, odour-proof environment with Air Seal Air Curtains.

Create an invisible door



Air curtain is an essential accessory for an air-conditioned area which when installed at entrances of air-conditioned Stores, Supermarkets, Theatres, Meeting Rooms, Restaurants, Offices, Factories and Warehouses, guards against conditioned air leaving conditioned space. It also prevents entry of dust, harmful insects and fumes from outside.

Features

Easy installation.

Two-speed switch facilitates the fan to run at high or low speeds as per requirement.

Adjustment of air direction is achieved conveniently with shift plate.

Benefits of Air Curtains

Heating/cooling retain effect



The air curtain makes door opening and closing unnecessary when used in high customer traffic areas like restaurants, stores and amusement centres. It retains heated or cooled air within the store space at an efficiency rate of 60-80%, allowing only a minimum of temperature fluctuation. (Note *1)

Deodorizing effect



Prevents odour from special rooms such as chemical labs, or vegetable preparation rooms and meat freezers in supermarkets. Prevents automobile exhaust fumes from outside. (Note *1)

Prevention against dust



If installed in doorway of a precision machinery factory, or a food or clothing store facing a busy street; outside dirt and dust are effectively screened out, protecting the merchandise at an efficiency level of 60-80%. (Note *1)

Guard against insects



Annoying, harmful, germ-laden insects are checked; being unable to penetrate the powerful air curtain. Thus, making health and sanitation standards easier to maintain in grocery stores, butcher shops, fruit counters, and fast-food operations. (Note *2)

Note: *1) Outside wind, air flow from air-conditioners, ventilator use, etc., may significantly lower the shielding effectiveness.
*2) The effectiveness against insects depends largely on the kind of insect, surrounding environment, air velocity of the Air Curtains, etc.
If more effective insect prevention is required, use the Air Curtains in combination with other methods.

Specifications

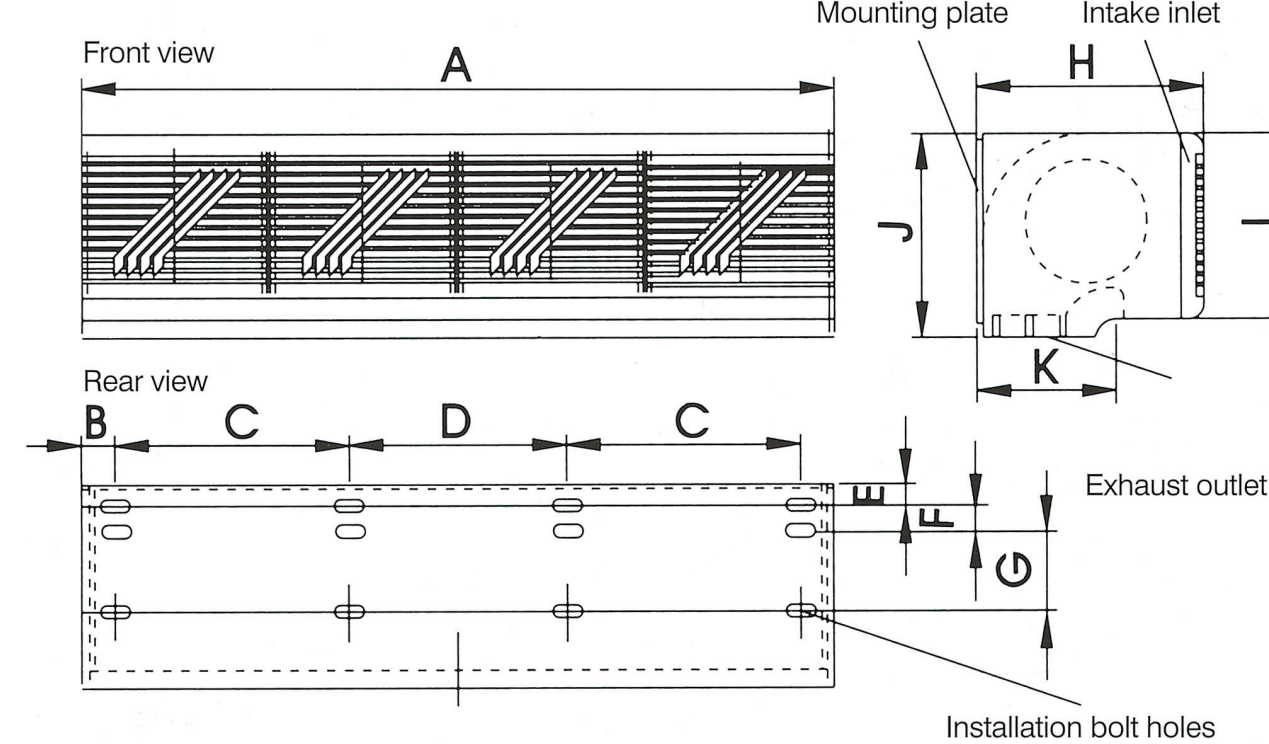


Model	Rating voltage {V}	Rating frequency {Hz}	Power {W}	Air delivery {CMH}		Noise {dB}	
				HI	LO	HI	LO
FM15-06	220~	50	90	1002	700	54	51
FM15-09	220~	50	140	1506	1057	57	53
FM15-12	220~	50	160	2010	1407	58	54

Note: The values in specification tables are representative characteristic values at 220V 50Hz and the ambient temperature of 20°C.
The noise values were measured at an angle of 45° below the air outlet, from a distance of 1.5 meters inside the room.
The outlet velocity shows maximum value.

Dimensions

Identification and installed dimensions



Model	A	B	C	D	E	F	G	H	I	J	K
FM15-06	600	39	261		36	50	74	272	214	242	151
FM15-09	900	40	282	256	36	50	74	272	214	242	151
FM15-12	1200	100	250	500	36	50	74	272	214	242	151

Dimensions are in mm

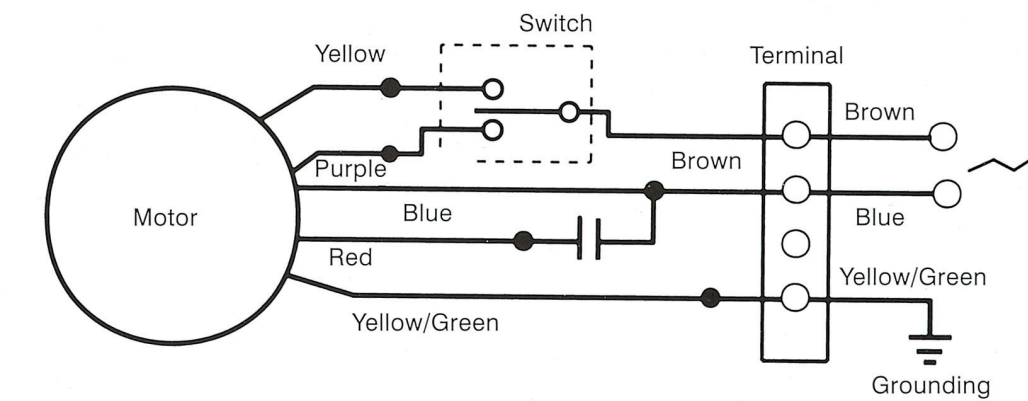
Accessories

- 1) Bolt for installation plate (M8 x 60) 8 pcs
- 2) Washer 8 pcs
- 3) Spring washer 8 pcs
- 4) Nut (M8) 8 pcs

Electric Wiring Details

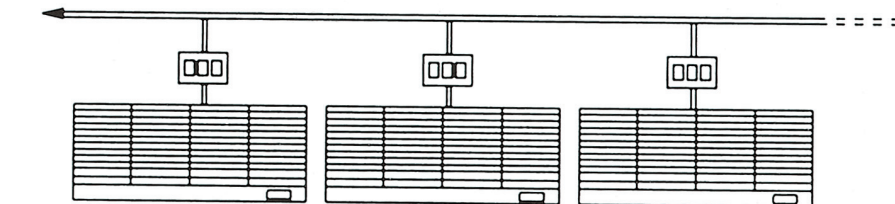


Electric work



Operation of multiple units in parallel

1) Individual connection to power supply.



2) Connection to adjacent air curtain.

