iwata

Air Curtain

User's manual

Before the use please carefully reads this instruction book
and installs by the specialist.

1. If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

2.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.

3. Children should be supervised to ensure that they do not play with the appliance.

4. The method of fixing is not to depend on the use of adhesives since they are not considered to be a reliable fixing means.

5. Ensure that the fan is switched off from the supply mains before removing the guard.

Product Overview

Our company produces the FM series air curtain, which is relies on the company flow survey center to ventilate domain many year accumulations the core technologies, in absorbs the domestic and foreign advanced experiences fully in the foundation, develops new generation sequence product. Including centrifugal and cross flow air curtain. This product air volume is suitable, the noise is low, suits installs guesthouse, meeting room, theater, office, freezer storage, operating room and so on , widely applies electron, measuring appliance, drugs manufacture, food, precision sizing, medical service. (For example entrance) forms the curtain wall in the specific region, has is cut off the inside and outside air mixing, the reduced heat change, Moisture-proof, Provide against pollution, against fly screen.

Select Model

Selecting the model mainly basis the width and height of the door, the length of air curtain and the wind wheel diameter of air curtain. General speaking, the width of door should be shorter than the length of air curtain, please use two or more assemblies；If the door is higher, please select the bigger diameter of wheel air curtain, Otherwise then selects the smaller diameter of wheel air curtain; When the environment is quiet, please select the smaller diameter of wheel air curtain

Ambiance of air curtain

Project	Specification
Working conditions temperature,℃	-10~40
Ambient air relative humidity,%	≤90
Altitude above sea level,m	≤1000
Fixed supply voltage deviation,%	±10

Installation sizes

The external dimensions and install the size:

Model	A	B	C	D	E	F	G
X90(R)-11	900	30	240	90	300	200	215
X100(R)-11	1000	80	240	90	300	200	215
X120(R)-11	1200	30	300	90	420	200	215
X150(R)-11	1500	30	360	90	360	200	215

The air curtain had already designated on the best installment hole on the bottom for the user. Please loosen the binding screw, separates the bottom from the box body, has been equipped with the installment hole on the bottom (Picture 1). When it is installed, the position must be accurate and be reliable, the method of installation to be as follows:

body of the machine
bottom board
tightening screw
Picture 1
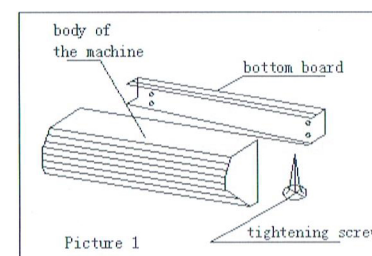
1.Fix on the concretes wall

(1) According to the different specification is to be gives the mounting dimensions, chose the position (picture 2)

(2) Splits out explodes bolt's hole which matches M8 to pull on the position, will pull explodes the bolt to fix on the concretes wall, simultaneously should protect bolt's swinging radius is 15mm. (picture 3)

(3) With the gasket, the nut fasten the bottom, then install the complete machine (picture 4)

power word mounting hole M8
bottom board
air outlet
picture 2
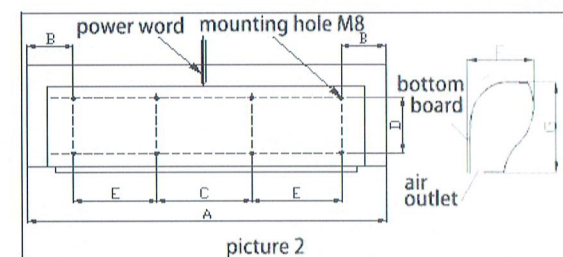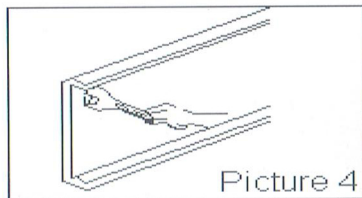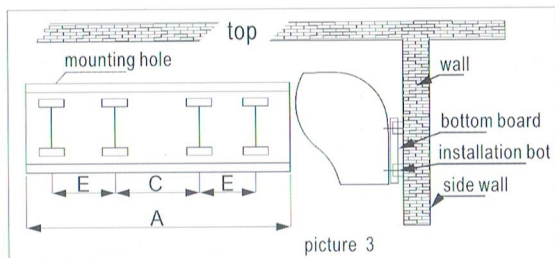
picture 3

Picture 4

2.Installation on the wood wall

With the wooden tooth screw fixed firmly the bottom on the good position (picture 5), then installs the complete machine again.

Piture 5

connection diagram   Picture 6
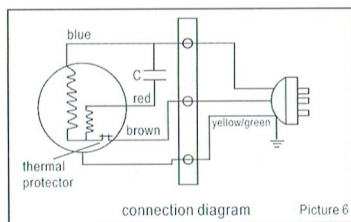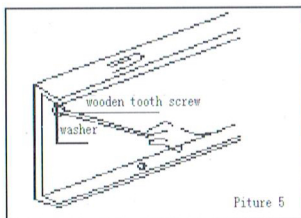
Preparation of Installation

When customer installs the air curtain, please note the following, can increases the efficiency of air curtain.

1.Please install on the solid place, prevents the work from vibration, prevents noise which vibration to be produces.

2.Please install the air curtain on the inside of the room.

3.Please install to be suitable the model, if the installation position is too high, will be unable to display is scheduled the function.

4.When installs the air curtain, make sure the air outlet is right to the bottom of fitting surface.

5.If the width of door wider than the length of air curtain, please use two or more assemblies. In this situation, please make sure the distance is about 20~40mm.

6.When install the air curtain, please make sure the air curtain hanged the wall plate and the wall cannot leave space.

7.The distance between the air curtain and the ceiling do not be smaller than 30mm.

8.Please make sure the level to install.

9.When installed, please make sure the distance between air outlet and the ground more than 2.3m

The control use of air curtain

1.Single speed air curtain control circuit (Picture 6); Installation of flange connecting valve is on diagram (Picture 7), It is controlled by outside switch, if connected the outside knob, it will achieve the stepless speed
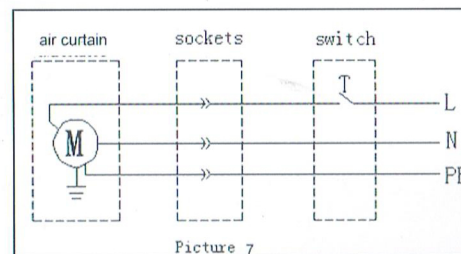
Picture 7

2.With key switch two speed air curtain control circuit (Picture 8-1,; Please press I or II, then obtains the appropriate air speed, presses the OFF key to stop
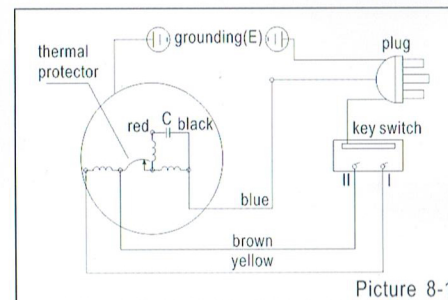
Picture 8-1

3.The air deflector of air curtain is adjustable, The air direction changed depends to the air defector.(Picture 9)

picture 9

The technical parameter

Item \ Model	Rated Voltage (V)	Rated Frequency (Hz)	Specification (mm)	Max Input Power (w)	Max Input Flow (m³/h)	Max Wind Speed (m/s)	Noise (dB)	N.W (kg)	Fuselage Size (mm)	Packing box (mm)	Effective height (m)
X90(R)-11	220	60	120	150	1780	11	≤45	11.5	900×215×200	960×270×250	3
X100(R)-11	220	60	120	150	1980	11	≤46	12.1	1000×215×200	1060×270×250	3
X120(R)-11	220	60	120	180	2370	11	≤48	14.5	1200×215×200	1260×270×250	3
X150(R)-11	220	60	120	220	2970	11	≤49	17.2	1500×215×200	1560×270×250	3

Service and maintenance

1.The power should be cut off before inspection and maintenance.

2.Motors, electrical components should be moisture-proof to prevent a short circuit.

3.Every six months to carry out a normal periodic repairs and maintenance to remove the dirt from air curtain.

   Please use cleaning detergents to clean, and then wipe with a clean soft cloth.

   Do not use gasoline, thinner, kerosene, fungicides or metal brush to clean the machine.

4.Damaged supply cords to be replaced by the manufacturer, service agent or similarly qualified person to avoid hazard

Product   warranty

1.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.

2.Children should be supervised to ensure that they do not play with the appliance.

3. In one month after products be sold, the products quality is indeed a problem. The products return, replacement or repair free of charge.

4.The product sold within one year, under normal use and maintenance of machines ,The products in the free repair period.

5.repair products for life, but one of the following charging repair:

(1) the damage of use, maintenance or custody caused by improper;

(2) damage to the demolition or moving of the company maintenance department to repair damage;

(3) without a valid invoice or the purchase certificate;

(4) Model and the invoice inconsistent maintenance products;

(5) damage due to force majeure;

(6) Expire the valid date of three packs of three packs .

6.three packs of products with a valid certificate for the invoice or purchase, in addition to the above, according to the explanation and requirements for China economic and trade (1995) No. 458, "part of the replacement of returned goods repair liability" implementation.

Maintenance Code

Product Name		Product Type	
Serial number		Date of purchase	
User name		To buy store	
User telephone		Postcode	
User Address			

The date	Fault conditions	Replacement parts	Service station	Repairer