

# INSTRUCTIONS MANUAL



**LAVA AIRE**  
ITALIA

## *Aviator X2*

**ELECTRIC COMMERCIAL GRADE PATIO COOLER**



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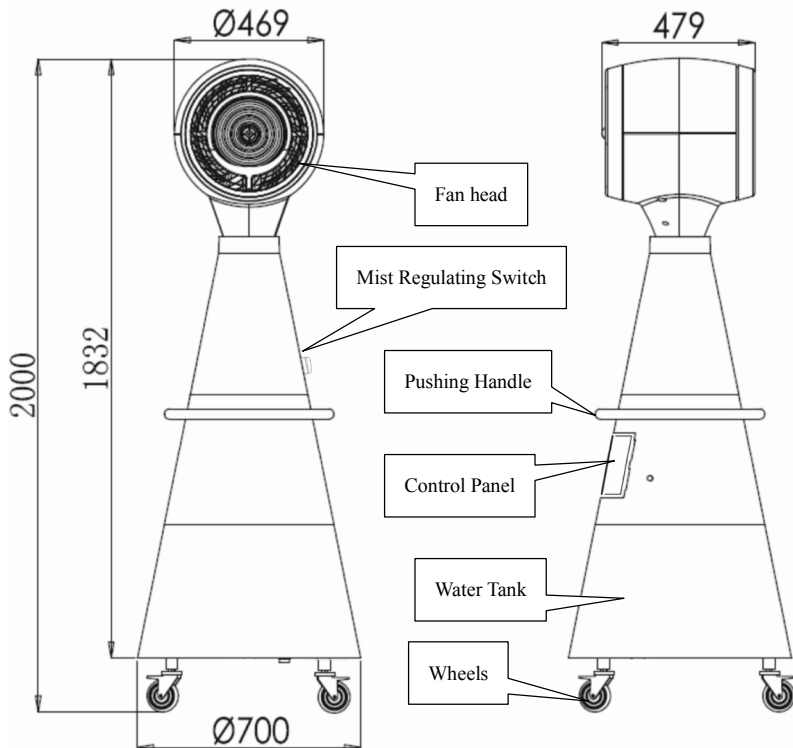
**PICTURES ARE ONLY FOR INFORMATION, TAKE MATERIAL OBJECT AS STANDARD**

## ■Instruction

Aviator X2 Misting Air Coolers adopt user-friendly design and appearance. The mist particles (diameter of 10-25 microns) emitted by misting device will take away the heat through evaporation, which travel to target area when the fan blows. In the effective area, it can decrease temperature by 3-8°C and help increase relative humidity, reduce dust and purify air, which makes a comfortable living & working space.

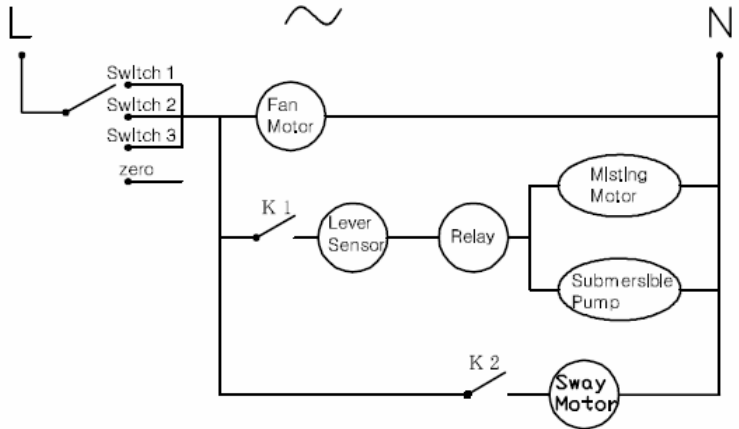
The internal structure uses independent control devices and human-intelligent warning protection system, which separates electricity from water so as to eliminate safety risk. Featured by non-clogged misting system, low energy consumption, low pollution, low noise, low heat & low carbon, our products are widely used in various public places, such as open square, playgrounds, stadiums, airports, walk streets, bus stations, outdoor restaurant and villa gardens; they are also used in industrial workshops of textiles, porcelain, casting factories & etc.

## ■Outline Drawing

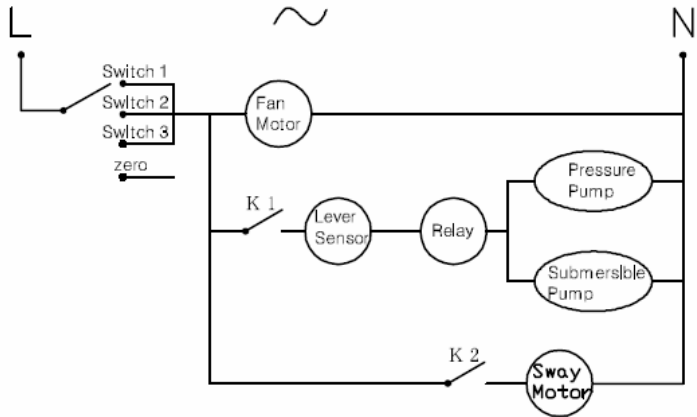


## ■ Wiring Diagram

Aviator X2



Aviator X4



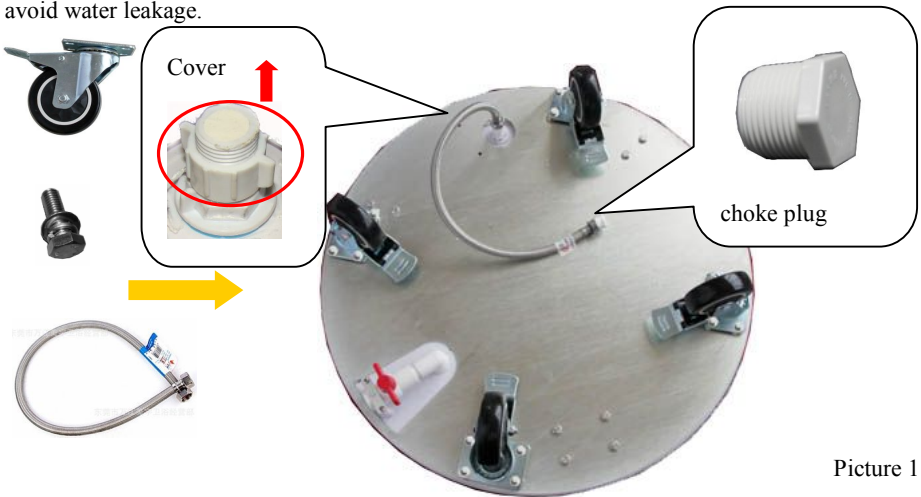
## ■ Installation Instructions

### 1、Wheels Installation

Take out the Water Tank from the box, overturn it, and then fasten the 4 wheels on the corresponding position with 16 sets of M8X16 Hex Head Cap Screw, spring washer and flat washer. (Picture 1)

When using " automatic adding water", please take off the cover, then fix the weaved pipe.

When the weaved pipe is apart from the water supply, please screw on the choke plug so as to avoid water leakage.

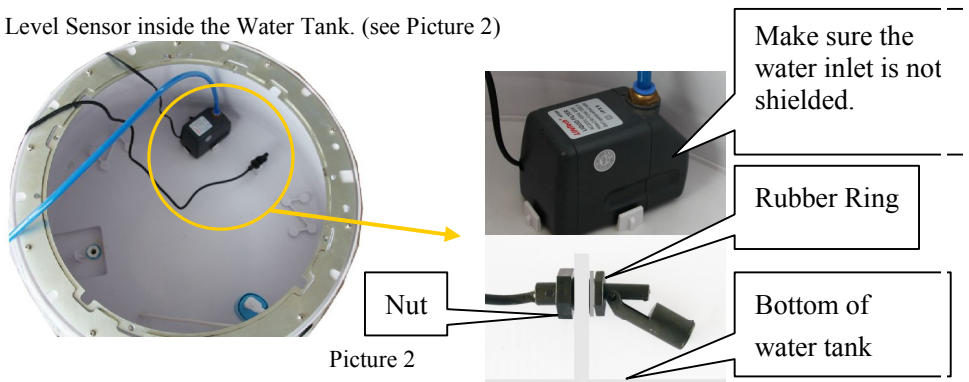


Picture 1

Remarks: As the Water Tank is very heavy, please be careful to avoid scratches of Water Tank or hurt of the assemblers.

### 2、Fasten the Submersible Pump and Level Sensor

Turn the Water Tank with installed wheels back, and fasten the Submersible Pump and Level Sensor inside the Water Tank. (see Picture 2)



Picture 2

Remarks: Put the Submersible Pump into the corresponding position and press it. It will be

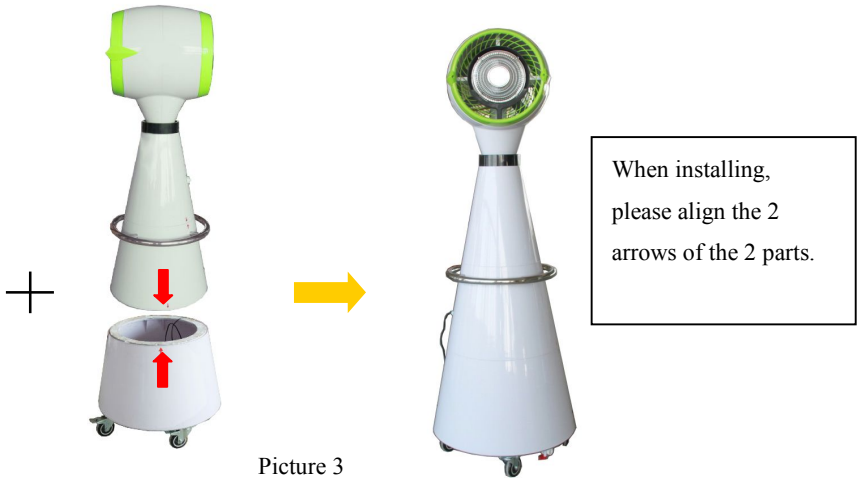


fasten by sucks installed beneath the pump.

Fasten the Level Sensor with the Nut into the corresponding trench. Make sure the floater is flapped down like the picture shows.

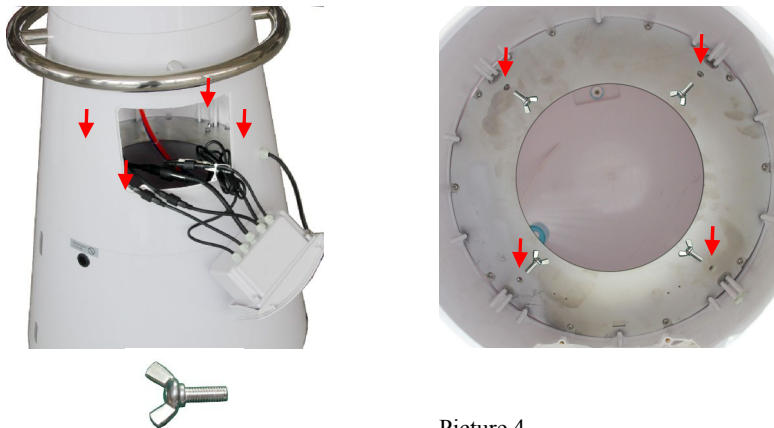
**3、 Combine Main Part and Water Tank**

Lock the 4 wheels, and then place the Main Part on the Water Tank. (Picture 3)



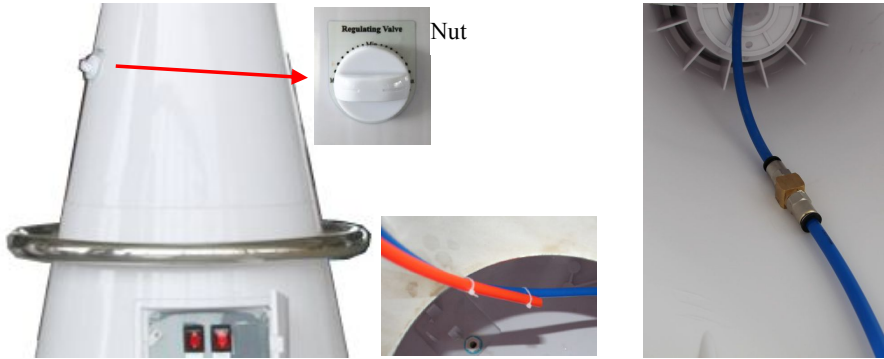
Picture 3

Rip off the protective coating of the Electricity Box on the Main Part, take it out and then fasten the two connecting plate together with 4 M6X20 Butterfly screws. (see Picture 4)



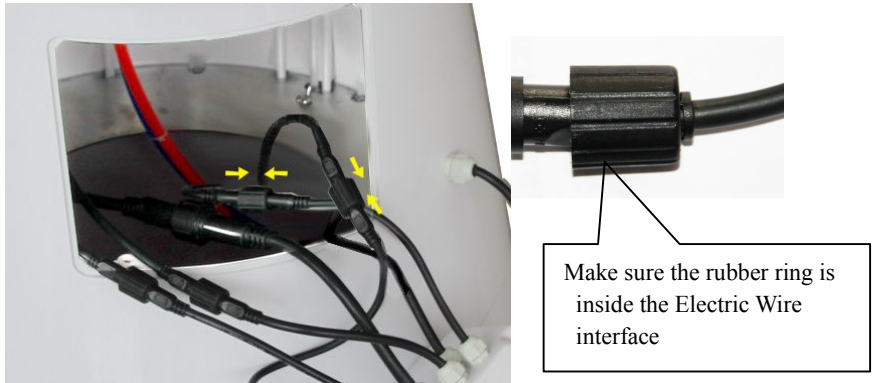
**4、 Connect the Electric Wire of Submersible Pump and Level Sensor**

Connect the blue outlet pipe to the quick coupling of the Mist Regulating Switch, and then tie up the orange return pipe and blue outlet pipe with ribbon. (see Picture 5)



Picture 5

Connect the 2-core interface from the Submersible Pump and Level Sensor with the corresponding interface from the Electricity Box, and fasten the Nuts. (see Picture 6)

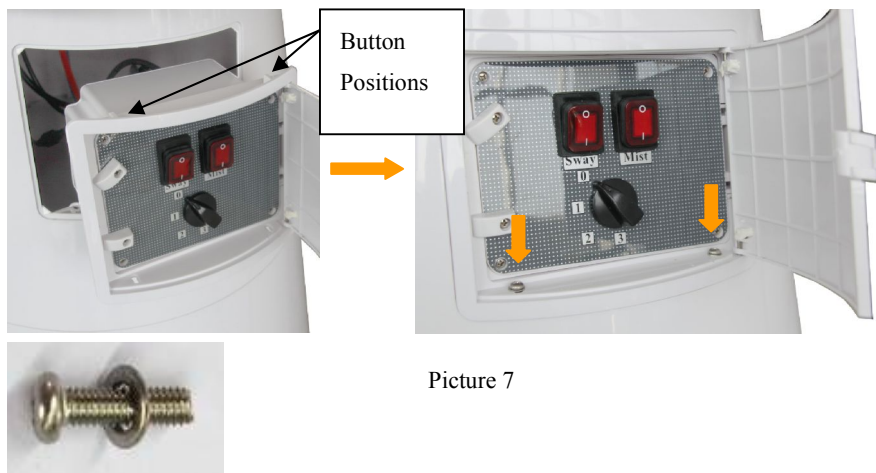


Picture 6

Remarks: For ensure waterproof, please make sure the rubber ring is inside the Electric Wire interface.

Besides, interfaces of Submersible Pump and Level Sensor are two pins, but different from each other. For avoiding any destroying of interfaces, please don't insert them violently.

After ensuring all the cables are connected right, fasten TWO button positions to the fan body firstly, then fix the electric box with TWO 5x16 screws and flat washers (shown as picture 7). Installation completed.



Picture 7

## ■ Checking after Installation

- ◇ 1、 Install the product according to the Instructions; check whether all the parts are firmly connected.
- ◇ 2、 Twirl the impeller with insulating material, like batten. Check the normal rotation and isolation between the blades and casing.
- ◇ 3、 Before using, check whether the voltage and frequency on the nameplate match those in use. Then add water into the tank (manual inflowing or automatic inflowing). Check whether there is any leakage of the water tank.
- ◇ 4、 Power on the product to see its operation. Switch on each speed, check whether it sounds abnormal, vibrates obviously. Press the button "MIST", 10 seconds later, rotate the "Mist regulating Switch" from "Min" to "Max", and check whether mist is normal. Power off the product immediately once there are some abnormalities.



### ■ Trial Operation

After installation, fill the water tank with water to the depth of 20 cm. Then you can try to operate it.

#### **Manual Adding Water:**

Insert a hose to the tank through the hole (as shown). DON'T go away while adding water.

You can view the water level through the window (as shown). Stop adding water when it reaches the highest level.

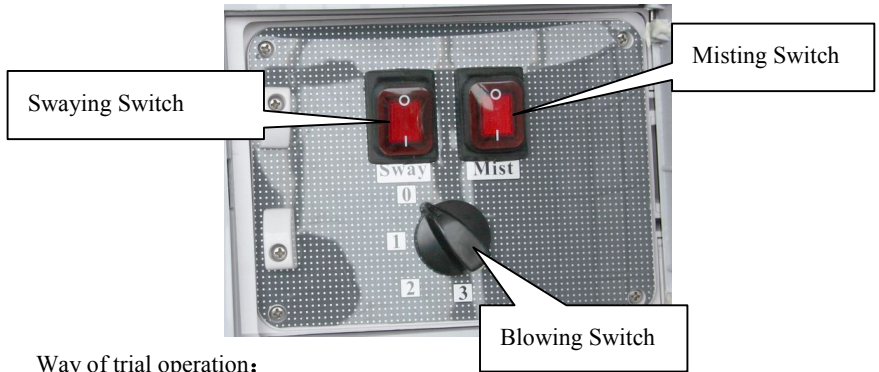


**Automatic Adding Water:** Please remove the choke plug and then connect the weaved hose (at the bottom of the tank) to water supply; turn on the faucet and begin adding water; there is a water level sensor inside the tank. When the tank is full, it will stop inflowing. When water reaches the lowest level, it would restart inflowing automatically.

When the weaved pipe is apart from the water supply, please screw on the choke plug so as to avoid water leakage



**Electric Control Box:**

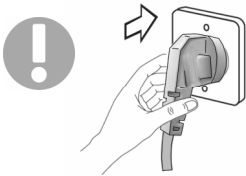

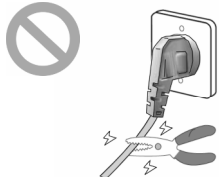


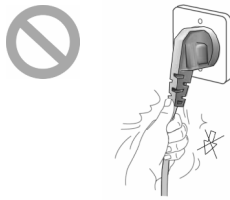
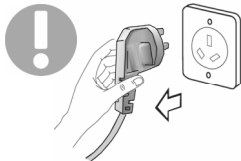




Way of trial operation:

1. Power on, switch to the Speed 1. The product would begin blowing. Observe whether the fan blows normally, by switching the speed 1 / 2 / 3.
2. Press the button “MIST”, the centrifugal disc would begin rotating and producing mist. View whether there is any difference of the mist quantity while rotating the “Mist regulating switch” from “Min” to “Max”.

**■ Attentions:**

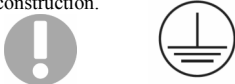
Please carefully read the following items:

<b>!</b> Caution: The product <b>MUST</b> be connected to the power with leakage protection device.		
<p>◆ Make sure firmly plugged</p>  <p>Otherwise, it may cause electric shock or fire hazard</p>	<p>◆ Be sure not to take off the plug while operating.</p>  <p>Otherwise, it may cause electric shock or fire hazard.</p>	<p>◆ Be sure not to damage or use unspecified power line.</p>  <p>Otherwise, it may cause electric shock or fire hazard.</p>
<p>◆ Please do not use the same socket with other equipment, or use extended cable.</p>  <p>Otherwise, it may cause electric shock or fire hazard.</p>	<p>◆ Be sure not to operate the product with a wet hand.</p>  <p>Otherwise, it may cause electric shock or fire hazard.</p>	<p>◆ Don't take off the plug by pulling the power cord.</p>  <p>Otherwise, it may cause electric shock or fire hazard.</p>
<p>◆ Power off while adding water or cleaning the product.</p> 	<p>◆ The voltage used can be fluctuated within the rated voltage range. Too low or too high voltage may damage the motor.</p> 	<p>Power off the product immediately once there are some abnormalities.</p> 

■ **Attentions**

**!** Caution: The product **MUST** be connected to the power with leakage protection device.

◆ Earthing: Make sure the earthing wire is connected to specified earthing system of the construction.



If not, please require professional to install one. Be sure not to connect the earthing wire to gas pipe, water pipe or discharge pipe.

◆ Power off the product if you don't use for a long time.



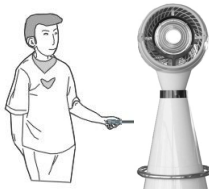
Otherwise, accumulative dirt and likely to cause fever or fire accidents.

◆ Please keep the product more than 1 m away from chemical spray or gas container.



Otherwise, it may cause explode or fire hazard.

◆ Be sure not to repair the product by yourself.



Incorrect repair may cause an electric shock or fire.

◆ Be sure not to put finger or stick into the net of the fan head



Otherwise, it may cause personal injury or damage to the cooler.

◆ The elderly, weak and children shall not be blower directly by the fan. Otherwise, they may get harm.



◆ Please not to let the product blow directly to stove.



Otherwise, it may cause poisoning.

◆ Please do not connect the product to potable water mains.



Water Pressure Range: 0.1-0.45 M Pa



◆ Make sure the water tank is cleaned before using.

◆ For long time no using the product, please drain off the tank, so as to avoid the growth of bacteria

## Common Malfunction Analysis and Maintenance

### Common Malfunction Analysis



Warning: Wrong operation and maintenance will cause electric shock or a fire.

Please contact the agent or dealer to repair the product by professionals. It can save your time and expense to check the following before calling service.

Malfunction Description	Analysis
It does not work	<ul style="list-style-type: none"> <li>※ Power failure?</li> <li>※ The plug is loose from the socket?</li> <li>※ Circuit protection device is tripping?</li> <li>※ Leakage protector is off?</li> <li>※ Check if the voltage is too high or too low? (measured by professionals)</li> <li>※ Proper use of the timer? (refer to product with remote control)</li> </ul>
It can mist but fail to blow air	<ul style="list-style-type: none"> <li>※ Twirl the impeller to check if the blade is stuck?</li> <li>※ Check if each switch works?</li> <li>※ Is male &amp; female plug of fan motor connected properly?</li> </ul>
It can blow air but fail to spray mist	<ul style="list-style-type: none"> <li>※ Mist regulating switch is on or off?</li> <li>※ MIST switch is on or off?</li> <li>※ The tank is with water and reaches the lowest water level?</li> <li>※ Water level sensor is installed correctly or is turned on?</li> <li>※ Power cord of the pump and atomization motor are connected correctly?</li> <li>※ Misconnect the blue outlet pipe and orange return pipe?</li> </ul>
Guard net is dripping	<ul style="list-style-type: none"> <li>※ Please use the right amount of detergent to smear the guard net.</li> </ul>

Please contact the agent or dealer if the following happens:

- ~ There is abnormal noise when the device is running
- ~ There is smoke or unpleasant smell
- ~ There is water leakage
- ~ Leakage protector is tripping
- ~ Power cord is abnormally hot and become abnormally soft.



**Stop it and disconnect the power plug**

## Maintenance – Water Tank Cleaning

### Warning:

- ◆ To ensure the cleanness of the mist, the product should be cleaned before each use.
- ◆ Before cleaning the product, stop it and unplug the power, otherwise there would be risk of electric shock.
- ◆ Do not use high-pressure water jets to clean this product.
- ◆ If the power line is damaged, ask service agent or professionals to replace it.
- ◆ Volatile liquid such as thinner or gasoline will damage the appearance, please use a soft cloth with neutral detergent to clean this product.

### Protection for Control panel

After adjusting the switches, please close the cover of the control box and tighten the screws as shown, so as to prevent erosion of rainwater or PVC panel aging caused by sun exposure.

### Water Tank Cleaning

- ◇ Simple cleaning ( Suitable for the cleaning of each use)

Rotate the two nuts on the control panel; push the panel inwards; clean the inner tank with long-handled brush; then open the drain valve to drain off the waste water; wash the tank with clean water; then close the drain valve again; Ensure the water level sensor is firmly fixed; close the control box.





✧ Thoroughly Cleaning ( Suitable for cleaning after 60 hours' operation)

1. Take the main body apart with the water tank.
  - 1.1 Loosen the 4 butterfly screws on the plate inside the tank  
(Refer to the Installation Instruction—Step 3 / Picture 4)
  - 1.2 Take the main body apart with the water tank; take out the submersible pump and water level sensor (Refer to Installation Instruction—Step 2 / Picture 2)
2. Clean the water tank

Wash the Water Tank inwall with towels or soft brush; open the drain valve to drain off the waste water; then wash it again with fresh water and the right amount of cleanser; close the drain valve.



3. Refix the submersible pump and water level sensor; Connect the main body with the water tank. (Refer to the Installation Instruction—Step 2 / Picture 3)  
Note: Please make sure the floater should face the bottom. Otherwise the Level Sensor will not work.

### Inspection and Maintenance in Daily Use

1. Make sure the machine is connect to the Electricity Leakage protector, and the earthing wire is connected to specified earthing system of the construction.
2. Before running the product, please check if there any damage or jamming with the Guard Nets, or if the Impeller rotates smoothly.
3. Pay attention to waterproof and damp-proof.
4. When the Misting Air Cooler is not in the need of using for a long time,
  5. 4.1 Power should be cut.
  6. 4.2 The Guard Net, Impeller and body should be clean regularly.
  7. 4.3 Use specialized protective cover to prevent the damage of rain and dust.

## **FIVE-YEAR LIMITED WARRANTY**

The appliance has been manufactured under the highest standards of quality and workmanship. We warrant to the original consumer purchaser that all aspects of this product will be free of defects in material and workmanship for five (5) year from the date of purchase. A replacement for any defective part will be supplied free of charge for installation by the consumer. Defects or damage caused by the use of other than genuine parts are not covered by this warranty. This warranty shall be effective from the date of purchase as shown in the purchaser's receipt.

This warranty is valid for the original consumer purchaser only and excludes industrial, commercial or business use of the product, product damage due to shipment or failure which results from alteration, product abuse, or product misuse, whether performed by a contractor, service company, or consumer. We will not be responsible for labor charges and/or damage incurred in installation, repair or replacement, nor for incidental or consequential damage.

### ***When You Receive Your Product:***

If Your Product is..

- Damaged
- Requires Technical Support
- Requires Parts
- Or If You Have A Sales Question Or You Would Like To Offer Product Feedback

*Please contact the manufacturer:*

**LAVA AIRE ITALIA**

888.779.5282 or

CS@LAVAAIRE.COM

DO NOT RETURN PRODUCT TO RETAILER!

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Toll free No.: 1.888.779.LAVA 1.888.779.5282

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