



MISTING AIR COOLER (LBWT4 Series)

Manual



CAREFULLY READ IT BEFORE USING IT;
PROPERLY KEEP IT FOR FUTURE REFERENCE.

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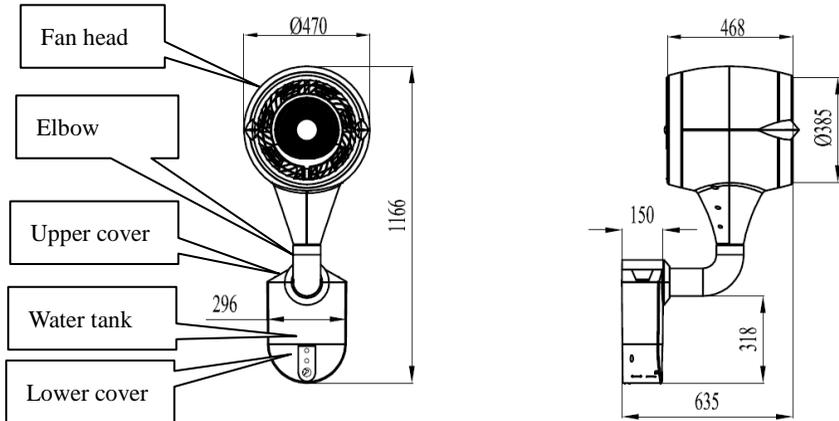
PICTURES ARE ONLY FOR INFORMATION, TAKE MATERIAL OBJECT AS STANDARD

■ Instruction

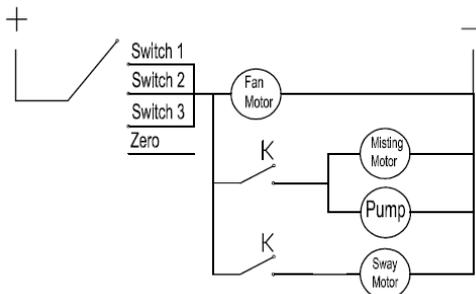
Misting Air Coolers adopt user-friendly design and colorful appearance. The mist particles (diameter of 10-25 microns) emitted by misting device will take away the heat through evaporation, which travel to target area when the fan blows. In the effective area, it can decrease temperature by 3-8°C and 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



■ Electrical Schematic Diagram (WT-4C)



■ Installation Instructions

- 1.1 As shown in Picture 1, select a suitable height and drill four holes for M8*80 screws in the wall and make sure these holes are consistent with the mounting holes of the elbow.
- 1.2 Please install it to the solid wall, which can support the weight of 150 kg.
- 1.3 The device NW is 30kg when without the water.
- 1.4 Note: Install the expansion screws to the wall first. When you finish the 4th step, you can mount the fan head to the wall.
- 1.5 It is suggested to drill the lowest hole at the height of 1.35 meter away from ground. So from the top of the fan head to the ground, it would be 2.2 meter.



Picture 1

2. As shown in Picture 2, put the wires and pipes into the elbow, and then connect the fan head with the elbow.



Picture 2

- 3.1 As shown in Picture 3, adjust the fan head to the middlemost position, use screws and washers (M6*16 screw/ Φ 8 spring washers / Φ 8 flat washer) to install it firmly to the elbow.
- 3.2 Pull the water pipes out of the side hole of the elbow.
- 3.3 Pull the leads of the fan motor (six-pin plug), misting motor (three-pin plug) & motor (four-pin plug) for sway head out of the bottom hole of the elbow.



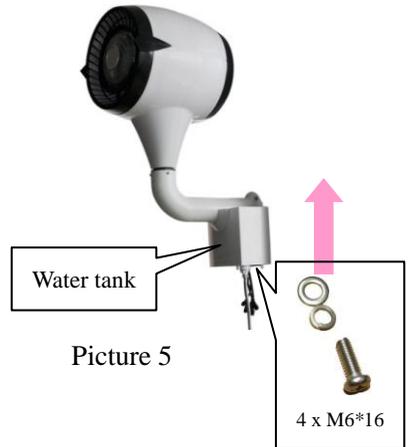
Picture 3

4. As shown in Picture 4, press the mounting plate to the wall, insert 4 screws into the mounting holes and fix it with $\Phi 8$ flat washers, $\Phi 8$ spring washers and M8 nuts.



Picture 4

5. As shown in Picture 5, insert the water tank into the mounting plate, and fix it with 4 M6*16 screws, $\Phi 6$ flat washers and $\Phi 6$ spring washers.

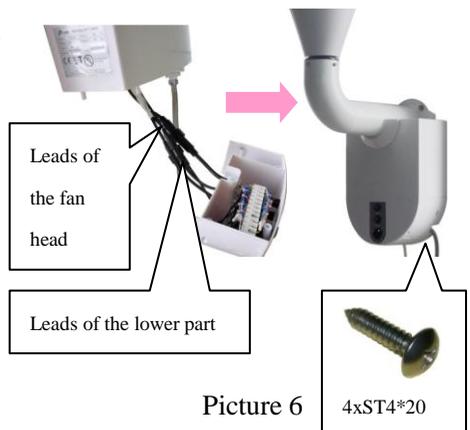


Picture 5

- 6.1 As shown in Picture 6, according to different pin numbers, plug each of the leads to the relevant socket in the electrical box and tighten the clamp nut on the socket.

- 6.2 Insert the lower cover to the water tank from its bottom up to make them as a whole and fix them with four ST4 * 20 screws.

- 6.3 Connect the inlet pipe with the inlet of the floating ball.



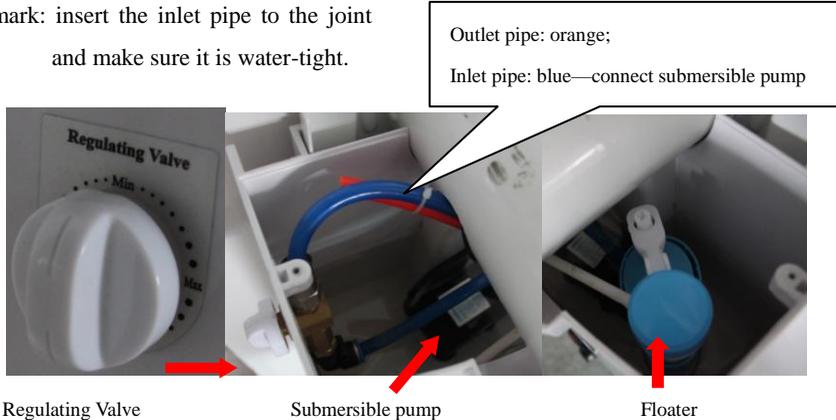
Picture 6

7. See Picture 7, Inlet pipe of Fan Head-->Water Regulating Valve-->Submersible pump.

Tie the Outlet and Inlet pipe together to make the recycled water go downstream.

For insuring the effect of Floating Ball, please make sure it is right vertical and keep it separated with other objects.

Remark: insert the inlet pipe to the joint and make sure it is water-tight.



Picture 7

8. As shown in Picture 8, install the upper cover to the water tank and fix it with two ST4 * 16 screws.

9. As shown in Picture 8, connect the water joint and the water pipes, power on the air cooler. After fifteen minutes, when the tank reaches a certain amount of water, you can enjoy this product.

By using the switches, you can adjust the air flow and choose such functions as sway, blow and mist. The quantity of the mist can also be adjusted by using the Water Regulating Switch.



Picture 8

■ 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, please make sure the Water Tank has been filled for at least 10 minutes. And then operation could be started.

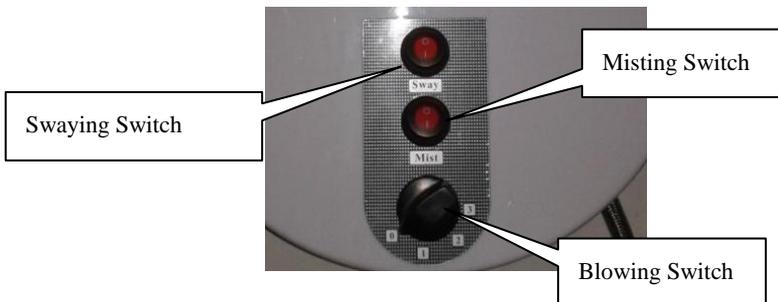
Manual Adding Water:

Take out the Upper Cover, then add water manually. See Picture 6.

Automatic Adding Water: Please keep connecting the weave hose 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.

Remarks: The capacity of the Water Tank is 6L. It can last running for 1 hour without outer water supply.

Electric Control Panel:

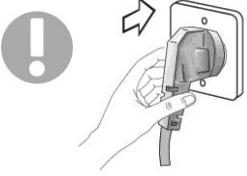
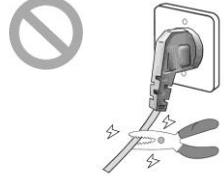


Way of trial operation:

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:

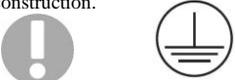
Please carefully read the following items:

 Caution: The product MUST 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> 
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■ **Attentions:**

Please carefully read the following items:

<p>! Caution: The product MUST be connected to the power with leakage protection device.</p>		
<p>◆ Earthing: Make sure the earthing wire is connected to specified earthing system of the construction.</p>  <p>If not, please require professional to install one. Be sure not to connect the earthing wire to gas pipe, water pipe or discharge pipe.</p>	<p>◆ Power off the product if you don't use for a long time.</p>  <p>Otherwise, accumulative dirt and likely to cause fever or fire accidents.</p>	<p>◆ Please keep the product more than 1 m away from chemical spray or gas container.</p>  <p>Otherwise, it may cause explode or fire hazard.</p>

<p>◆ Be sure not to repair the product by yourself.</p>  <p>Incorrect repair may cause an electric shock or fire.</p>	<p>◆ Be sure not to put finger or stick into the net of the fan head</p>  <p>Otherwise, it may cause personal injury or damage to the cooler.</p>	<p>◆The elderly, weak and children shall not be blower directly by the fan. Otherwise, they may get harm.</p> 
<p>◆Please not to let the product blow directly to stove.</p>  <p>Otherwise, it may cause poisoning.</p>	<p>◆Please do not connect the product to potable water mains.</p>  <p>Water Pressure Range: 0.1-0.45 M Pa</p>	 <p>◆Make sure the water tank is cleaned before using.</p> <p>◆For long time no using the product, please drain off the tank, so as to avoid the growth of bacteria</p>

Common Malfunction Analysis and Maintenance

Common Malfunction Analysis

<p> Warning: Wrong operation and maintenance will cause electric shock or a fire.</p> <p>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.</p>	
Malfunction Description	Analysis

It does not work	<ul style="list-style-type: none"> ※ Power failure? ※ The plug is loose from the socket? ※ Circuit protection device is tripping? ※ Leakage protector is off? ※ Check if the voltage is too high or too low? (measured by professionals) ※ Proper use of the timer? (refer to product with remote control)
It can mist but fail to blow air	<ul style="list-style-type: none"> ※ Twirl the impeller to check if the blade is stuck? ※ Check if each switch works? ※ Is male & female plug of fan motor connected properly?
It can blow air but fail to spray mist	<ul style="list-style-type: none"> ※ Mist regulating switch is on or off? ※ MIST switch is on or off? ※ The tank is with water and reaches the lowest water level? ※ Power cord of the pump and atomization motor are connected correctly? ※ Misconnect the blue outlet pipe and orange return pipe?
Guard net is dripping	Please use the right amount of detergent to smear the guard net.
Please contact the agent or dealer if the following happens:	
<div style="display: flex; align-items: center; justify-content: center;"> <div style="border: 1px solid black; border-radius: 25px; padding: 10px; width: 400px;"> <p>~ There is abnormal noise when the device is running</p> <p>~ There is smoke or unpleasant smell</p> <p>~ There is water leakage</p> <p>~ Leakage protector is tripping</p> <p>~ Power cord is abnormally hot and become abnormally soft.</p> </div> <div style="margin: 0 20px;">  </div> <div style="border: 1px solid black; border-radius: 15px; padding: 10px; width: 150px; text-align: center;"> <p>Stop it and disconnect the power plug</p> </div> </div>	

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.

Water Tank Cleaning

Take off the Water Tank according to step 8→7→6→5. And then clean the Water Tank once a week by neutral detergent. We suggest you to add a filter in front of the inlet pipe to reduce cleaning frequency. After cleaning, reinstall the Water Tank according to step 5→6→7→8.

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,
 - 4.1 Power should be cut.
 - 4.2 The Guard Net, Impeller and body should be clean regularly.
 - 4.3 Use specialized protective cover to prevent the damage of rain and dust.