



Powerology

**Industrial Fan with Mist
Spray and Humidifier**

SKU: PMFAN230W

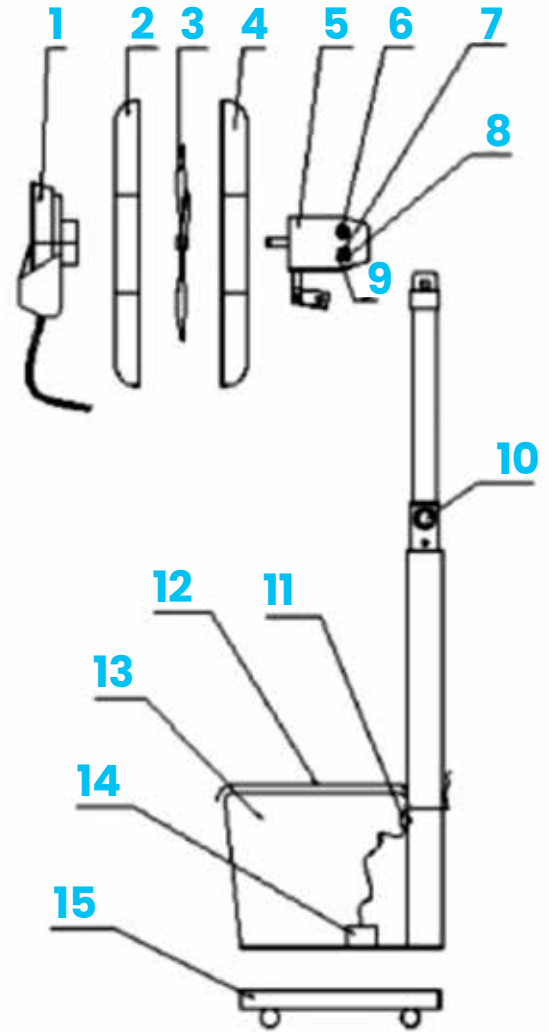


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Schematic View

1. Sprayer
2. Front Guard Net
3. Blade
4. Rear Guard Net
5. Motor
6. Fan Speed Switch
7. Mist Switch
8. Water Pump Interface (2 Cores)
9. Mist Interface (4 cores)
10. Height Adjusting Knob
11. Mist Adjusting Water Valve
12. Water Inlet
13. Water Tank
14. Water Pump
15. Base



Product Description

- a. This fan operates on the principle of centrifugal atomization. By using a rotating disc and centrifugal spray mechanism, the water is transformed into mist through the application of centrifugal force.
- b. Designed with advanced technology, this product features an attractive design, low noise, minimal vibration, and stable performance. It includes three-speed settings, 90-degree oscillation, and is easy to move and operate. It delivers high airflow, has a long lifespan, conserves energy, and offers efficient misting.
- c. Key functions include reducing temperature and increasing relative humidity. It is suitable for use in factories, entertainment venues such as bars and stadiums, supermarkets, hospitals, exhibition halls, and other outdoor areas.

Assembly Guide

a. Base Assembly

Connect the wheel to the base frame using bolts and secure with nuts.

b. Pole and Water Tank Assembly

Attach the pole to the base and mount the water tank onto the base frame (refer to Figure 1).

c. Handle, Lifting Pole, and Motor Assembly

[1] Attach the handle to the height adjustment interface.

[2] Insert the stainless steel tube into the height adjustment interface.

[3] Adjust to the desired height and tighten the height adjustment knob (see Figure 2(a)).

[4] Position the motor in the top groove of the lifting pole and secure with bolts and nuts, ensuring the motor shaft is facing forward (refer to Figures 2 (b) and 2 (c) for details).



Figure 1



Figure 2 (a)



Figure 2 (b)



Figure 2 (c)

d. Assembling the Guard Net, Blade, and Sprayer: Loosen the screw on the motor, attach the rear guard to the motor, secure the blade onto the motor shaft, position the sprayer on the front guard, and then fasten both the front and rear guards together. (See Photo 3)

e. Connecting the Water Pipe and Pump: Attach the $\varphi 8$ water pipe to the outlet of the water pump (refer to Figures 4 (a) and 4 (b)). Then, insert the other end into the inlet of the adjusting valve labeled IN or P. Afterward, connect the inlet of the $\varphi 8$ water pipe to the outlet

port or A port of the adjusting valve (as shown in Figure 4 (c)). Insert the return $\phi 8$ water pipe into the water tank through the hole at the back of the tank. Secure the rotating valve located near the inlet of the water tank by tightening the screw (see Figure 4), then place the water pump under the tank.

f. Connecting to Power: Plug in the power cord to the fan and ensure it is tightly secured.

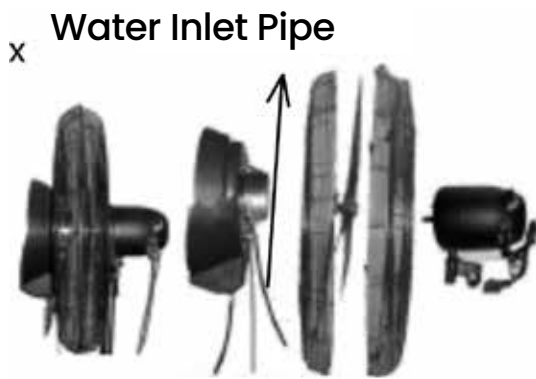


Figure 3



Figure 4 (a)



Figure 4 (b)

Instructions for Use

a. After assembling the fan, use a pole to check if the blades rotate smoothly.

b. Operate the fan using the specific voltage and frequency indicated on the power sticker.

c. Use the switch on the motor to change speeds and turn the fan on or off.

d. For the swing feature, the connecting rod inserted into the center hole of the rotating frame indicates the fan is stationary; inserting it into the end hole indicates swing mode (refer to Figure 5 (a) and (b) for details).

e. Ensure the water level is above the water pump before operating the sprayer and pump (do not run the pump without water).

- f. Open the mist switch after the fan is operating stably.
- g. Adjust the mist using the water valve to control the amount of atomization.
- h. If mist is not needed, turn off the mist switch.



Figure 5 (a)

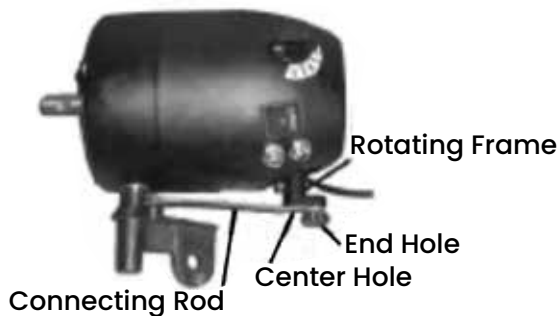


Figure 5 (b)



Figure 5 (c)

Specifications

Rated Voltage	220-240V
Rated Frequency	60Hz
Rated Power	230W
Power Plug	UK 3-Pin Plug
Water Tank Capacity	4L
Mist Output	4l/h
Diameter	26"
Motor	Brushless DC

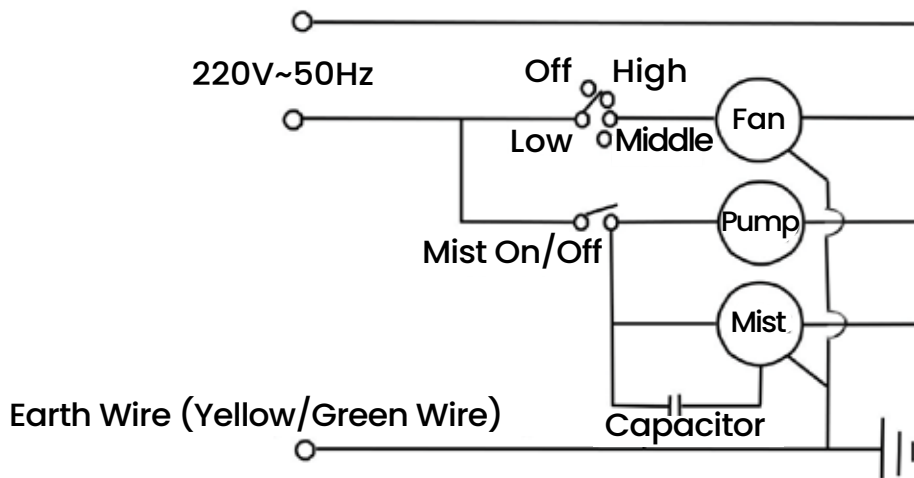
Specifications	Low-Speed					Mid-Speed				High-Speed			
	650 mm	RPM	CFM	dB	Power (W)	RPM	CFM	dB	Power (W)	RPM	CFM	dB	Power (W)
		1100	130	55	130	1250	155	60	150	1400	205	68	160

Notice

1. Do not place your hand or any objects into the fan while it is operating.
2. Do not operate the water pump when the water tank is empty; ensure all electrical equipment is kept away from water.
3. Position the fan on a flat, stable surface.

4. If the power cord is damaged, for your safety, please have it replaced by a professional.
5. If the fan makes unusual noises, emits smoke, or stops unexpectedly, disconnect the power immediately and seek professional assistance for maintenance.
6. Except for the maintenance procedures described in this manual, non-professionals should not attempt to repair or maintain the fan.

Circuit Diagram



Maintenance

1. For optimal durability, clean the fan regularly.
2. After powering off and ensuring the fan has stopped, clean it to maintain the dryness of all electrical components.
3. Wipe the fan gently with a soft cloth and minimal detergent, then dry thoroughly with a dry cloth.
4. To disassemble the pipe, first press the plastic ring and then pull the pipe out. (Refer to figure 6 for details.)



Connected



Disconnect
Figure 6

Problem	Solution
The fan is not operating or is operating abnormally.	<ol style="list-style-type: none"> 1. Verify that the voltage and power match the specifications on the power sticker. 2. Ensure that the plug is connected properly.
The fan is operational but not producing mist.	<ol style="list-style-type: none"> 1. Confirm that the mist device is operational. If not, repair or replace it. 2. Ensure the water pump is functioning; if not, repair or replace it. 3. Ensure the water level is above the pump. Otherwise, refill the water tank. 4. Verify that the pipes are connected correctly. 5. Ensure there are no obstructions in the water inlet. Open and clean the inlet as needed.
The fan is unable to oscillate.	Adjust the swing function according to the manual.
Insufficient backwater flow.	<ol style="list-style-type: none"> 1. Check that the backwater system is connected correctly. 2. Ensure there are no blockages in the pipes.

Warranty

Products that you buy directly from our **Powerology** website or shop come with a 24-month warranty.

The 24-month warranty applies to products purchased directly from our **Powerology** website or store. If **Powerology** products are bought from any of our verified retailers, then the product is eligible for only a 12-month warranty. To extend your product's warranty, visit our website **powerology.me/warranty** and fill in your details in the provided form along with an uploaded picture of the product to process your request. Once approved, you will receive a confirmation email of the extended product warranty. Upload the required information within 48 hours of purchase to be eligible for a 24-month warranty period.

For more info, please check:
powerology.me/warranty

Contact Us

If you have any questions about this Privacy Policy, please contact us at: **hey@powerology.me**

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