



Ya Suh Dar Ventilation CO.,LTd

Portable Evaporative Water Cooling Fan

Manual

M902-COOL

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1、 Preface

We sincerely appreciate your trust and support in our product –(M902-COOL) Evaporative Water cooling fan with Inverter of Ya Suh Dar Ventilation Co.,Ltd.

To ensure proper use, please read through this manual before using this product.

2、 Performance

(For your safety, Please unplug the power plug/connection before doing maintenance and Cleaning!)

1. The fan can adjust air volume relative to ambient temperature with variable speed that can save on energy. For M902-COOL, the direction of the wind is controlled by the automatic electric shutters and can also be fixed in accordance to the desire direction of the wind.
2. The unit comes with wheels for easy mobilization.
3. Evaporative cooling technology is applied and does not produce mist.
4. Unit filled to the max water capacity will last longer. Ice may be added to increase cooling effect.
5. Large water tanks can be used continuously for 4-6 hours for both indoor and outdoor areas.
6. Cut-off switches used for sudden fluctuation of power which prevents burn out.
7. The machine can also filter out dust from the air, making the environment more comfortable.
8. It can also be used during winter, without the use of the water pump.
9. Plug and run, not limited to any area.
10. Everything manufactured in Taiwan to ensure safety of the end user.
11. Unique design, made of quality tested PE materials.
12. Partnering it with the use of air-conditioners can yield better ventilation and energy conservation.

3、 Specification

1.Inverter : 0.5HP	2.Blades : 18" 3 Nylon 66 + Fiber blades	3.Water Storage:60 L
4.Motor : 1/3HP, 4P	5.Weight : 45KG	6.Volume : 40dB~70dB

Input Voltage (Single phase)	110V/60HZ	220V/60HZ	220V/50HZ
Output Voltage (Three phase)	220V/60HZ	220V/60HZ	220V/60HZ
Power Consumption	510W±10%	510W±10%	510W±10%
Current	7.5A±10%	3.8A±10%	3.8A±10%
R.P.M (Maximum)	1380rpm±30rpm	1380rpm±30rpm	1380rpm±30rpm

• Appearance



4、 Product Use

(1) Installation Guide

1. Conditions to consider when operating the unit.
 - A. 110V/60HZ(220V,50/60HZ) single phase
 - B. Ambient temperature” 0°C-45°C: Ambient relative humidity: $\leq 85\%$
 - C. Voltage fluctuation should not go beyond $\pm 10\%$.
2. Water pump will automatically shut off under low water levels.
3. If only the fan will be used, the pump switch must be first turned off.
4. To maintain the efficiency of the unit, the cooling pad and water tank should be cleaned regularly. Please be careful not to directly spray water on the control panel or the controller. **(For the safety, please unplug the power plug/connection before maintenance and cleaning!)**
5. Do not stand or sit on the machine nor put any objects on the unit. Cables and wiring should be installed with caution, as to prevent damage caused by rodents. Also make sure to avoid heavy pressure, stretching and changes done to supply cords or power control lines.
6. Please do not tamper the parts of the machine while it is running. **Before undergoing the maintenance and repair procedures, disconnect the power supply first to avoid damages and for safety purposes.**
7. For areas that are very particular with temperature and humidity, please consult with experts for the guidance and use of the machine.
8. Do not connect alongside with other high-powered appliances in order to avoid accidents and damages done to the machine.
9. Machine is subject to a one year warranty which is limited under the following conditions.
 - A. Voltage not according to the recommended usage.
 - B. Damage caused by improper handling: includes transfer of the machine from one facility to another.
 - C. Damage caused by natural calamities.
 - D. Damage caused by harmful gases.

E. Damage caused by tampering with the machine.

F. Unauthorized modifications on the machine.

G. Misuse of the water pumps which can cause burn out due to empty water tanks.

10. Please lock the ice cube inlet by the screw after adding ice cubes.

(2) Features and Instructions

1. Features

1-1 Variable Speed control

1-2 Soft Start

1-3 Overvoltage protection devices (OVPDs)

1-4 Over-current protection devices (OCPDs)

1-5 Overload and Short Circuit Protection

1-6 Over-heat protection

1-7 Low-water cut-off protection

1-8 Motor phase protection

2. Instructions

(1) Before plugging the machine:

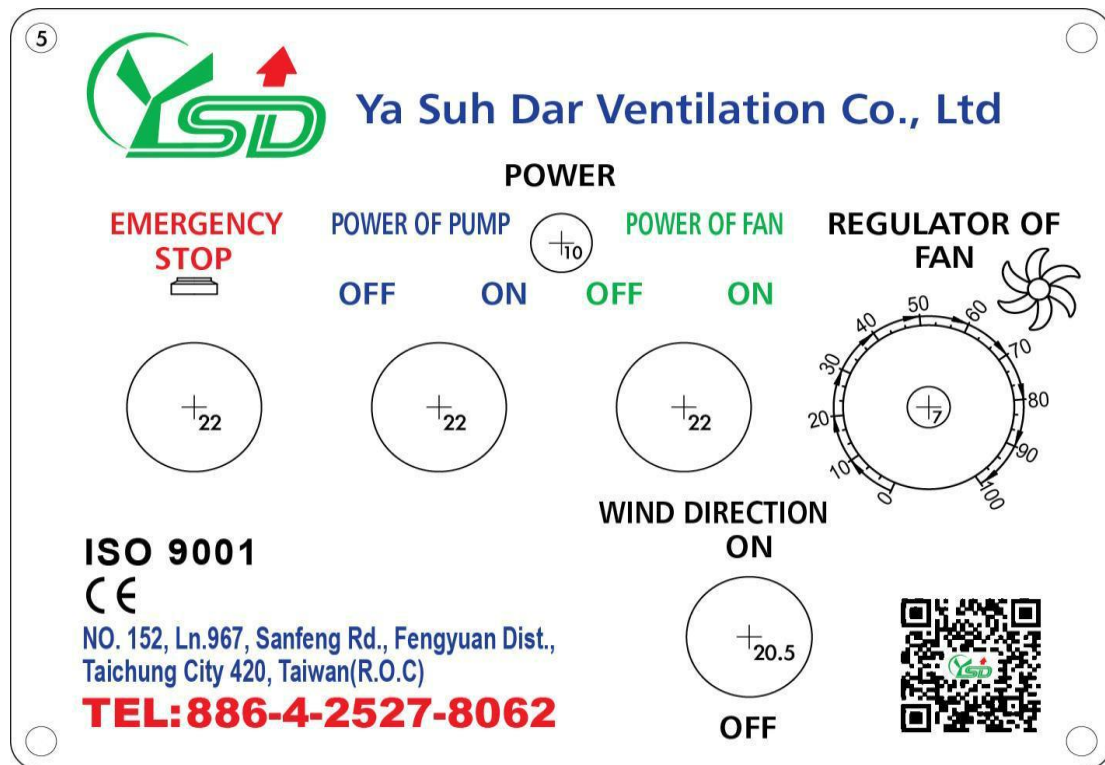
Connect one end of the quick connector to the water source then tighten the quick connector. The other end of the quick connector which is attached to the machine should also be tightened to avoid leakage.

As water flows into the machine, observe the water level which can be seen through the clear tubing at the bottom backside of the unit.

Open the pump until the cooling pads are soaked with water before running the motor.





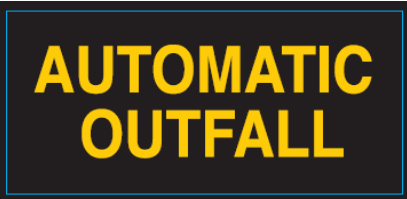

Using the variable speed controller, adjust according to the desired cooling effect.

(2) Machine Control



- (I) Power indicator: Determines if the unit is powered up.
- (II) “Power of Fan” switch: When switched on, slowly increase the “Regulator of Fan”
- (III) “Regulator of Fan” knob: The higher the value, the stronger it is and vice versa.
- (IV) “Power of Pump” switch: The motor will only start when the valve reaches the max level.(Monitor through the clear tubing)
- (V) “Emergency Stop” switch: Used for the sudden stop of the machine.
- (VI) “Wind Direction” button: Used to change the wind direction.
- (VII) Order of Operations :
- A. Start up: Plug the machine to the proper outlet. Revert the “Emergency Stop” button. And switch on “Power of Pump” then wait for 2-3 minutes for the water to flow through the cooling pads. Switch on “Power of Fan.” Adjust the fan speed using the “Regulator of Fan.”
- B. Shutdown: Put fan speed to 0. Switch off the “Power of Fan.” Switch off the “Power of Pump.” Push “Emergency Stop.” Unplug the power cord from the outlet.

(3) Label symbols instructions

Label	Instruction
	<p>Power Specification</p>
	<p>In order to avoid leakage and short circuit, please do not spray water to the controller when you clean the machine.</p>
	<p>Use only household tap due to pipe size. Water pressure should not be too high in order to avoid leakage.</p>
	<p>Drainage for recycled water. Use also during cleaning, to flush out the dirty water.</p>
	<p>Push the “Power of Pump” button to drain water out. No need to open the outfall.</p>
	<p>Warning! Do Not Touch!!!</p>

5、 Cleaning and Maintenance Guide

(For your safety, Please unplug the power plug/connection before doing maintenance and Cleaning!)

1. Cleaning the water tank should be made regular.

(1) During use, recycling water can cause impurities and accumulation of dirt will settle at the bottom of the water tank. It is recommended that cleaning should be made regular, relative to the environment it is exposed to.

Cleaning should be done at least once a month. There are only 2 specific areas which are sensitive to water which is the location of the switch and the inverter. Other than those 2 areas, everything else can be washed with water.

(2) In order to achieve consistency with the quality of the air, we recommend that you open the manual drain at least once a day to flush out the impurities when it is not in use.

(3) The way of draining water.

Manual Drain: Located at the bottom of the unit.

2. The cooling pads are considered consumables and should be replaced if damaged.



Warning:

1. Please comply with this manual. Ya Suh Dar Ventilation Co.,Ltd will not responsible for the casualties caused by the misuse of this product.

2. Should there be modifications done, please consult with professionals in order to avoid accidents.

3. If damages are caused by the deliveries on our end, please notify us or our exclusive distributor in your country for urgent assistance.

6、 Safety Precautions

(For your safety, Please unplug the power plug/connection before doing maintenance and Cleaning!)

1. Please go through the manual thoroughly before operating the evaporative water cooling fan.
2. Please be reminded to always keep the electrical box closed when operating the unit in order to avoid massive amount dust or liquid to enter which will cause the unit to malfunction.
3. This unit is not capable of and should never be used to draw flammable gases and oil.
4. The evaporative water cooling fan cannot draw and should not draw any burning material at all.
5. The positioning of the unit cannot be just anywhere. It should be positioned in a place that is not accident prone as to prevent injuries.
6. The unit should always be on a flat surface since it comes with wheels. This is to prevent accidents.
7. Please avoid laying the power cords on the floor where a lot of foot traffic and machine transfer occur in order to avoid unnecessary injuries.
8. Always detach the power cord from the unit when the unit is not being used.
9. Make sure all switches are turned off when the unit is not being used. This does not mean that the “Emergency Stop” button can always be relied upon. This is for maintenance purposes.
10. Avoid using old power cords or sockets to replace the power cords/socket of the unit. Keep these wires/cables away from heat as well.
11. Please consult with us or our exclusive distributor with regard to the unit should it be defective or malfunctioning. If there seems to be a problem, avoid using the unit, remove the power cord from the power supply, and contact us directly so that we can attend to it at the soonest time possible.
12. Please avoid touching the power cord and electrical box with wet hands.
13. Please do not put/block the back of the unit with anything in order to avoid damage and unnecessary dangers.
14. Please use the external power cord of the water cooling fan with the specification of over 2.0 MM (14 AWG). A weak/thin power cord can cause fire.

15. Do not start the unit if there are missing parts.
16. When the fan is at high-speed, please do not touch or open the electrical box, safety nets, or put anything on the suction part of the machine.
17. Do not open the ice cube inlet when the fan is operating
18. To avoid casualties, please insert the connectors of the device into its corresponding sockets. Extension cord used should be over 2.0 MM (14 AWG) with the length of 50 meters.
19. Please do not open the electrical box if you are non-qualified professional.
20. Do not remove anything or make any modifications to this machine. If you have any operational problems, please contact our staff.
21. Please read this manual and guidebook carefully when you operate the control panel.
22. Please do not spray water to the control panel and electrical box when you clean the machine.
23. This machine is a very heavy unit. Please be careful when moving it from one area to another in order to avoid injuries.
24. If you have any problems/inquiries, please contact our local dealer/distributor. Do not open the electrical control box by yourself



Warning

In order to avoid unnecessary risks and permanent damage, please pay attention to the following safety precautions:

1. Before operation, user must learn how to properly use the water cooling fan.
2. Before operation, user must read manual/guidebook carefully and understand all modes of safety and operating procedures.
3. Before operation, user must remember all warning signs that are attached to the machine.

The contents of manual are subject to change without prior notice.

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