

PORTABLE EVAPORATIVE COOLER MANUAL

Suitable For ECM-D36 Only

AEROPOWER VENTILATION CO., LTD | June 23th 2022

HamiltonAir
PREMIUM HVLS FANS



Beyond limitations, connect the future

WARNINGS

OPERATION WARNINGS

1. Do **NOT** use by children.
2. Do **NOT** use by persons who are reduced physical, sensory or mental capabilities.
3. Do **NOT** use by persons who either don't read the manual or not familiar with products.

SAFETY WARNINGS

To reduce the risk of electric shock, fire or injury:

- Read the evaporative cooler's manuals and labels thoroughly before use.
- Do **NOT** operate any evaporative cooler with a damaged cord or plug.
- Do **NOT** run power cord under carpeting or cover with throwrugs, runners or similar coverings. Arrange power cord away from traffic areas to avoid tripping hazards.
- Do **NOT** step on or roll over power cord with heavy or sharp objects.
- Always unplug the power cord to the evaporative cooler before performing inspections or repairs.
- Always unplug the evaporative cooler during filling and cleaning.
- Do **NOT** operate evaporative cooler unless all evaporative cooling media is securely in place.
- Remove the plug from the electrical receptacle by pulling on the plug, not the power cord.
- Operation near open flames or sparks is not recommended.
- If operating near open flame or sparks, ensure the pump is continuously running in order to saturate and wet evaporative cooling media.
- When cleaning your evaporative cooler, ensure water does not get into the motor or electrical system to prevent damage.
- The use of extension cords with evaporative cooler is not recommended.
- If there is circumstance or intended use requires the use of an extension cord, the following requirements must be met:
 - Use properly grounded **14 AWG** or greater;
 - Extension cord must not exceed **50 feet** (15.24 meters) in length;
 - Extension cord must be properly grounded
- If the evaporative cooler is damaged or malfunctions, do **NOT** continue to operate it. Refer to the warranty or troubleshooting sections of this manual. Contact your local distributor or email aeropower.sd@gmail.com immediately.

TO START UP

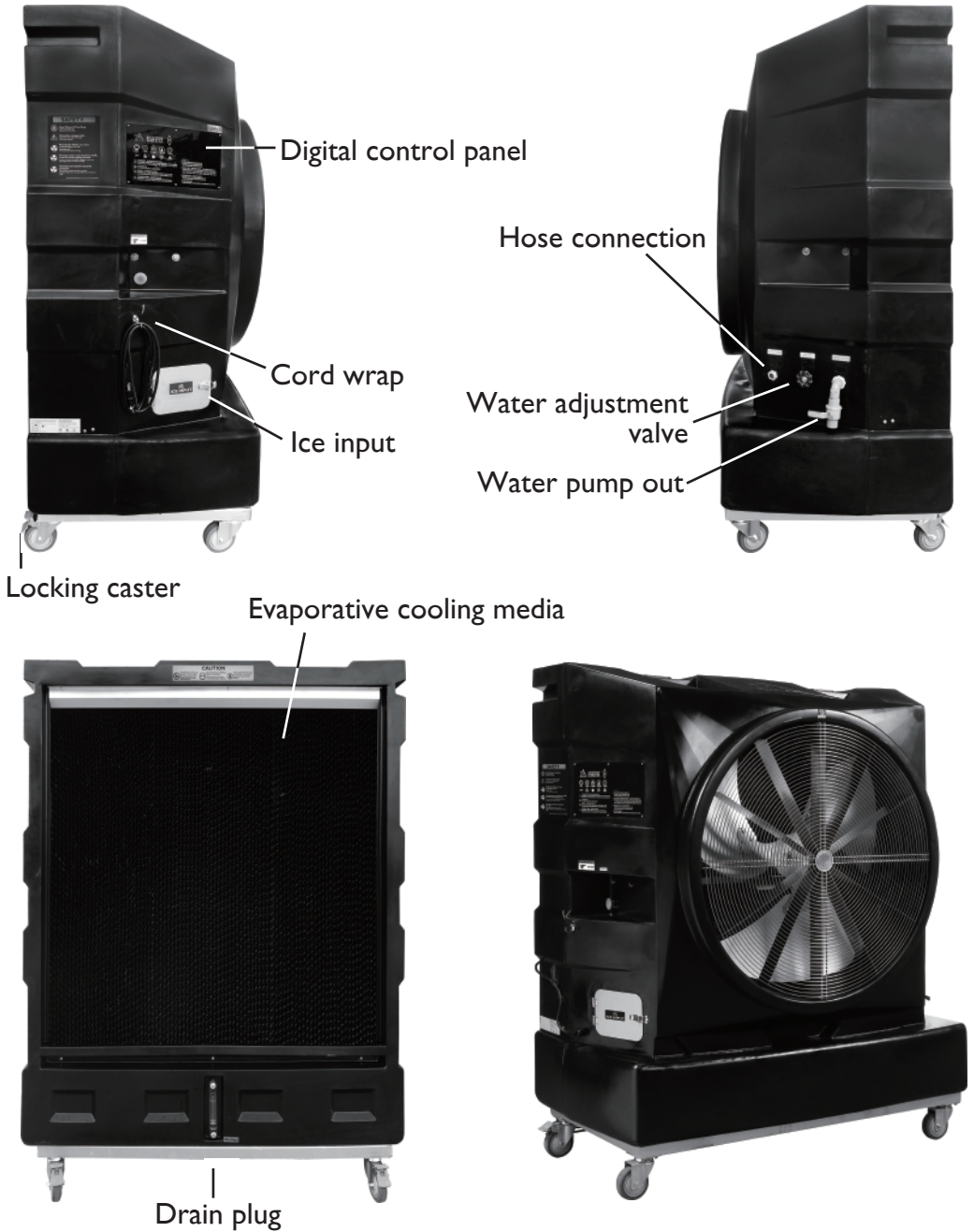
PLACEMENT PRECAUTIONS

- 1) Make sure there is a clear and unobstructed path in front of the evaporative cooler to avoid affecting airflow.
- 2) The evaporative cooler must be stood in leveled and upright position, not allowing to be tipped over. The casters should also be locked to prevent the cooler from moving.
- 3) If the evaporative cooler is placed on a raised platform, make sure the platform is stable, well constructed and allows for placing the full weight of the evaporative cooler including a full water tank.
- 4) If the evaporative cooler is placed near to the wall or other obstacle, make sure the position for the cooler is in a minimum of 3 feet (0.9 meters) away from the wall or other obstacle, meanwhile the evaporative cooling media faces to the wall.
- 5) When using multiple evaporative coolers in close proximity, be sure to put every evaporative cooler in certain distance so the air flows complement each other to achieve maximum cooling capacity.

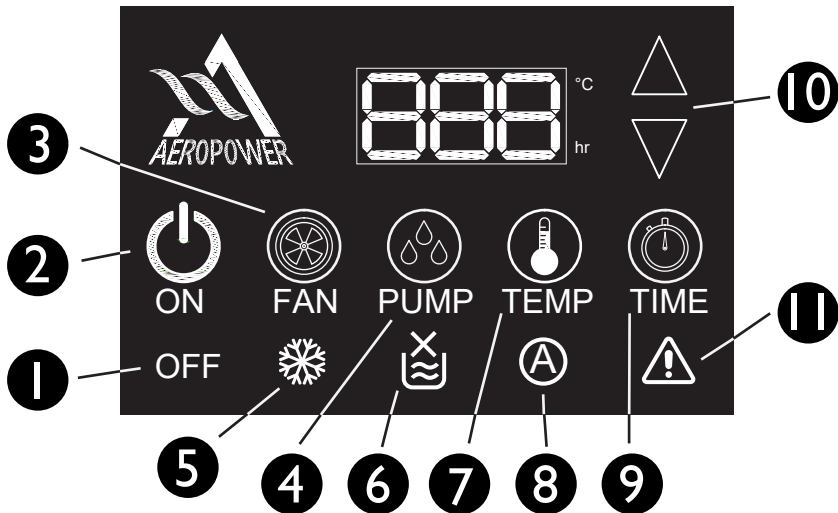
Start the pump and adjust the water flow

- 1) When the water tank is full of water, touch the “Pump” button to turn on the pump.
- 2) When initially turning on the pump, the level in the water tank will drop suddenly and restart the flow of supply water, meanwhile the airflow will reduce to 30%. This is a normal condition, as the evaporative media requires a large amount of water for proper wetting.
- 3) The brand new evaporative cooling media will require an initial ‘breaking-in’ period. This period is required for the media to begin readily absorbing water. It may require up to a week to achieve maximum efficiency.
- 4) It is important to ensure that the water flow to the evaporative cooling media is properly adjusted when first starting the water flow in the evaporative cooler. Increasing the flow using the water adjustment valve makes this adjustment. Proper water adjustment should leave the evaporative media saturated with water, but not flooded. Evaporative cooling media should appear wet.
- 5) When turning the evaporative cooler off at the end of the day or week, the pump should be turned off about 15 minutes before the fan to allow the Kuul evaporative media to dry.

OVERVIEW



DIGITAL TOUCH



1 Standby Mode^[1]

When you put on the cooler plug or turn the cooler off from power button, the cooler will stay in standby mode and the “OFF” sign will light on.

2 Power button

Short touch to turn on or off the evaporative cooler.

3 Fan button^[2]

Short touch to turn on or off the fan. The “FAN” will start automatically when you turn on the evaporative cooler by power button.

4 Pump button

Short touch to turn on or off the pump.

5 Functioning normally sign

Pump is turned on and work properly.

6 Water shortage sign

No enough water in the tank so the pump cannot work.

7 Temperature button

Short touch to turn on or off the temperature mode. Long touch^[3] three seconds to adjust the cooling temperature you need.

8 Automatic mode sign

The pump will start or stop automatically according to the setting temperature.

9 Time button

Short touch to turn on/off or set the timing.

10 Speed button

Short touch to adjust high and low. The airflow, cooling temperature and timing can be adjusted through this button.

11 Warning sign

Warning for overloaded motor or abnormal issue happened in the cooler.

Notice

- 1) All of the function buttons can be operated individually after you turn on the power.
- 2) All of the signs only show you the operating situations of the evaporative cooler, so you will know what you may need to do next.

Remark

- [1] You cannot do any settings when you are in standby mode. Only when you turn on the power by power button, you can start to set up your evaporative cooler.
- [2] You can adjust the airflow volume by speed button without touching FAN button in advance any time when the evaporative cooler is operating.
- [3] You can only enter the adjusting function when the temperature mode is off. Always turn off the temperature mode before you enter the adjusting function.

OPERATION STEPS

Steps

- 1) Lock the caster, put on the plug, make sure there is enough water in the tank.
- 2) Touch the power button to turn on the evaporative cooler. The fan will start automatically from 50% airflow. You can adjust the airflow to your need.
- 3) Touch the pump button to turn on the pump. The airflow will reduce to 30% to avoid it overworking before the evaporative cooling media is wet properly and will regain to original airflow automatically.
- 4) To adjust the temperature, long touch for 3 seconds when the temperature mode is off, and you will see the digital panel is flashing for editing. After 3 seconds of the setting, the digital screen will stop flashing, it means the setting is done.
- 5) Short touch the time button to set the timing you want. After 3 seconds of the setting, the digital screen will stop flashing, it means the setting is done.

Notice

- 1) Use clean water when running the evaporative cooler in order not to breed the bacteria or decrease the lifetime of evaporative media. The most important is not to harm the people's health.
- 2) There is memory function for airflow. When you temporarily don't need to use the evaporative cooler, instead of unplugging it, you can just turn it off. The system will remember the airflow and remain the same when you turn it on again.
- 3) When initially turning on the pump, the level in the water tank will drop suddenly and restart the flow of supply water. This is a normal condition, as the evaporative media requires a large amount of water for proper wetting.

MAINTENANCE

WEEKLY Maintenance

Step1. Shut down the evaporative cooler, disconnected from power.

Step2. Drain the tank by removing the drain cap.

Step3. Remove the evaporative cooling media to allow cleaning of the tank, where dust may collect over time.

Notice

If there is too much dust in the air, please do the maintenance every 2-3 days to avoid the blocked of the pump.

MONTHLY Maintenance

Step1. Add soda powder and 30% of water to water tank.

Step2. Turn on the pump to make the pump working until evaporative cooling media is washed by soda water. It will take roughly 1 hr.

Step3. Use powerful water jet which means clean water to wash the evaporative cooling media. After above step, the machine will be clean.

STORAGE

1. Drain all water from the tank and wipe the tank clean, ensuring the evaporative cooling media and tank are dry.
2. Roll up the power cord and secure it to ensure it will not be rolled over, tripped over or caught in equipment.
3. Cover the evaporative cooler completely to prevent dust build-up and store in a dry area. This also helps to prevent damage to the evaporative cooling media.

TROUBLESHOOTING

Turn off all power to the evaporative cooler before attempting to troubleshoot any of the following symptoms. For problems not listed, please contact your local distributor or customer service.

Fault conditions	Possible causes	Remedy
Evaporative cooler fails to start or deliver air	<ol style="list-style-type: none"> 1. No electricity for evaporative cooler <ol style="list-style-type: none"> 1) Fuse is burnt 2) BLDC driver is burnt 3) Power unplugged or damaged 4) Digital panel is burnt 5) Emergency stop is locked 2. Motor overheated and/or frozen 	<ol style="list-style-type: none"> 1. Check power <ol style="list-style-type: none"> 1) Replace fuse^[1] 2) Replace driver^[2] 3) Plug in cord or replace if damaged 4) Replace digital panel 5) Release the stop 2. Replace motor
Evaporative cooler starts, but air delivery is inadequate	<ol style="list-style-type: none"> 1. Cooling media side of the cooler is too close to the wall 2. Fan motor failure 3. BLDC driver failure 	<ol style="list-style-type: none"> 1. Move evaporative cooler at least 3 feet from the wall 2. Replace motor 3. Replace driver
Evaporative cooler starts, but air delivery is uncooled	<ol style="list-style-type: none"> 1. Pump failure 2. Water is inadequate in the tank 3. Water adjustment valve is locked 	<ol style="list-style-type: none"> 1. Replace pump 2. Check the water tank or the float valve 3. Release the valve
Water draining from the evaporative cooler	<ol style="list-style-type: none"> 1. Seat in float valve leaking 2. Drain plug not tight 3. Evaporative cooling media is damaged 	<ol style="list-style-type: none"> 1. Replace float valve 2. Tighten plug 3. Replace evaporative cooling media
Knocking, shaking, or rattling sounds	<ol style="list-style-type: none"> 1. Loose parts 2. Fan blade rubbing shroud 3. Dirty water 4. Dirty evaporative cooling media 	<ol style="list-style-type: none"> 1. Check and tighten where needed 2. Inspect and adjust, or replace fan blade 3. Check and replace the clean water 4. Clean or replace new evaporative cooling media

[1] If condition persists, contact local distributor or customer service.

[2] Electric parts to be replaced by qualified engineer or authorized AEROPower maintenance staff.

WARRANTY

TECHNICAL SUPPORT

Technical support and customer service are available directly from AEROPOWER. Contact Customer Service for consultation and parts replacement. Please have model number of evaporative cooler available.

WARRANTY AND REPLACEMENT PARTS

AEROPOWER VENTILATION CO., LTD WARRANTY

For **one(1)** year from date of purchase, AEROPOWER warrants any original component part or parts of its AEROPOWER portable evaporative coolers (the “Equipment”) that are found, upon examination by factory-authorized personnel, to be defective in material or workmanship.

If the Equipment and/or its original component parts, develop a defect covered by this limited warranty within the applicable time periods described above, the same may be repaired by the customer after receiving the appropriate parts from AEROPOWER or entirely replaced with a new product of the same by AEROPOWER at the option of Equipment.

All transportation charges for shipment of the Equipment and/or its component parts that are submitted for replacement or repair under this warranty must be borne by the purchaser.

This warranty is void if:

- i) the Equipment and/or its component parts are found to have been misused, abused, repaired by or tampered with by unqualified personnel;
- ii) any of the product’s component parts have been replaced with parts that were not authorized AEROPOWER replacement parts;
- iii) the product has been modified in any way (other than repairs made by qualified individuals with AEROPOWER replacement parts);
- iv) the customer cannot show proof of purchase as the product’s original owner.

AEROPOWER LIMITATION OF LIABILITY

IN THE CASE OF A BREACH OF ANY IMPLIED OR WRITTEN WARRANTY RELATING TO THE EQUIPMENT AND/OR ITS COMPONENT PARTS, AEROPOWER SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES, AND THE LIMITS OF LIABILITY AGAINST AEROPOWER FOR ANY SUCH BREACH SHALL NOT EXCEED THE COST OF REPLACEMENT OR REPAIR OF THE EQUIPMENT.

