iwata
EVAPORATIVE AIR-CONDITIONER

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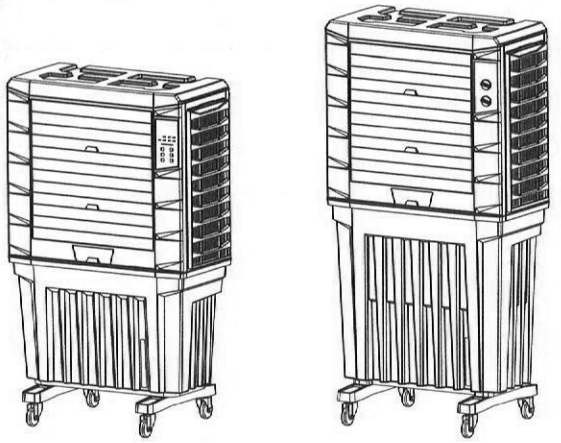
Instruction Manual

ECO SERIES
ENERGY SAVING & MORE EFFICIENT

TURBO AIR
SERIES

ECO TURBO AIR SERIES



Evaporative Air Cooler

Turbo Air ECO-125R
Turbo Air ECO-125M
Turbo Air ECO-180R
Turbo Air ECO-180M

READ AND SAVE THIS INSTRUCTIONS MANUAL

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Content

Disclaimer

Our company reserves the right to make alterations to specifications, quantities, dimensions etc. for production or other reasons, subsequent to publication.

The information contained herein has been prepared by qualified experts within our company.

While we believe the information is accurate and complete, we make no warranty or representation for any particular purposes. The information is offered in good faith and with the understanding that any use of the units or accessories in breach of the directions and warnings in this document is at the sole discretion and risk of the user.

Important

Read and save this instruction. Read carefully before attempting to assemble, install, operate or maintain the product. Protect yourself and others by observing all safety information. Failure to comply with instructions could result in personal injury and/or property damage. Retain this instructions for future reference.

This symbol indicates this product should not be disposed with other household waste throughout the EU. To prevent possible harm to the environment or human health from uncontrolled waste disposal, recycle it responsibly to promote the sustainable reuse of material resources. To return your used device, please use the return collection systems or contact the retailer were the product was purchased. They can take this product for environmental safe recycling.

1. General Safety Information

1.1 Read and understand all the instructions contained in this manual before operating the air cooler. Save these instructions.

1.2 Do not use with a damaged cord or plug. Keep the cord away from heated surfaces. Do not operate Evaporative Cooler with a damaged cord or plug. Discard Evaporative Cooler or return to an authorized service facility for inspection and/or repair.

1.3 Do not run cord under carpeting. Do not cover cord with throw rugs, runners, or similar coverings. Do not route cord under furniture or appliances. Arrange cord away from traffic areas and where it will not be tripped over.

1.4 This appliance can not be used by children aged under 8 years or above persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge .

1.5 Unplug the appliance during filling water and cleaning.

⚠ WARNING

If the power supply cord is damaged, it must be replaced by a qualified person in order to avoid a hazard.

1.6 Do not insert any objects into the air inlet or outlet, as bodily injury or property damage may occur.

1.7 Do not operate this product near an open flame or the product may ignite and cause fire, resulting in bodily injury or property damage.

1.8 Do not operate in areas where gasoline, paint or other flammable liquids or vapors are used or stored.

⚠ WARNING

Before to cleaning or maintenance, the air cooler must be unplugged.

1.9 Always unplug the power cord from the receptacle when the air cooler is not in use, before adding water, before cleaning, before replacing parts, or before moving to another location.

1.10 Do not use this appliance in the immediate surroundings of a bath, a shower or a swimming pool or other liquids.

1.11 Do not plug the cord into electric outlet with wet hands or an electric shock may result.

⚠ WARNING

Stagnant water may cause bacterial growth and serious health problems. Do not allow stagnant water to remain in the tank.

1.12 During regular use, fully drain the tank and renew the water every day.

1.13 Drain and clean the water tank before storage, after seasonal use and whenever the unit is not in daily use.

1.14 Never attempt to disassemble or alter the product in any way not instructed by this manual. Shock, fire, or bodily injury may occur.

⚠ WARNING

To reduce the risk of fire or electric shock, do not use this Evaporative Cooler with any solid state speed control device.

1.15 Use only on GFCI (Ground Fault Circuit Interrupter) protected receptacles.

2. Product Description

The Evaporative Air Cooler is an efficient, energy-saving product. It cools by combining water evaporation with air movement, through carefully designed and manufactured equipment, providing maximum efficiency and safety.

The evaporative cooling technology is very economical and gives a number of additional benefits compared to traditional air conditioning systems for homes and businesses. The system does not use refrigerants or compressors; it cools by simply moving air through a surface composed of specially designed evaporative panels.

Heat from the inlet air is absorbed by the water. The resulting outlet air temperature drops when the water transforms into gas. Humidity is not perceived since the air in the room is renewed approximately every two minutes, while a comfortable cooling effect is created. Continuous air circulation is a vital aspect of the evaporative cooling process used in this equipment, which gives it a distinct advantage over air conditioning by refrigeration.

3. Specifications and Dimensions

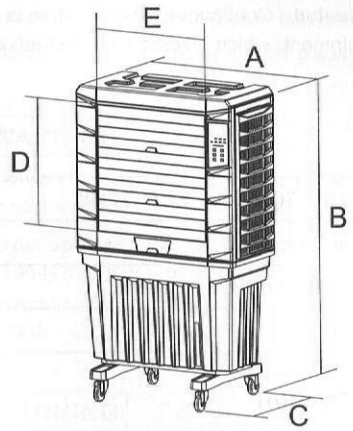
Model	**Turbo Air ECO-125R/Turbo Air ECO-125M**
Max Airflow	9000m³/h
Voltage	220~240V 60Hz
Power Consumption	250W
Noise Sound Pressure Level (Low-High Speed, 1m)	64 dB(A)
Net Weight	23.5kg
Tank Capacity	125L [33 gal]

Model	**Turbo Air ECO-180R/Turbo Air ECO-180M**
Max Airflow	9000m³/h
Voltage	220~240V 60Hz
Power Consumption	250W
Noise Sound Pressure Level (Low-High Speed, 1m)	64 dB(A)
Net Weight	29.5kg
Tank Capacity	180L [47 gal]

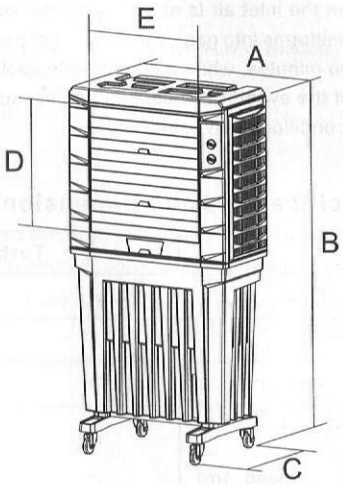
Note:
1.If the product you bought is different with specification, standard shall be object to the real fitting.
2. If your power supply type not show in this list, please check the data label on the unit.

Model	A	B	C	D	E
Turbo Air ECO-125R Turbo Air ECO-125M	33.9(860)	56.1(1425)	20.9(530)	22.8(580)	22.4(570)
Turbo Air ECO-180R Turbo Air ECO-180M	33.9(860)	65.4(1660)	20.9(530)	22.8(580)	22.4(570)

Note: All dimension are in Inches(mm).



Turbo Air ECO-125R
Turbo Air ECO-125M

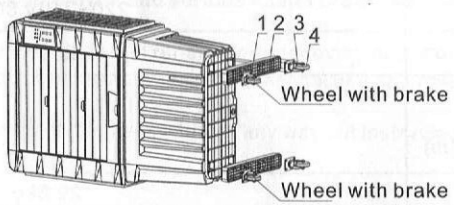


Turbo Air ECO-180M
Turbo Air ECO-180R

4. Installation

Take out the unit carefully from package, check the product, if any part is damaged, contact with the sales agent immediately.

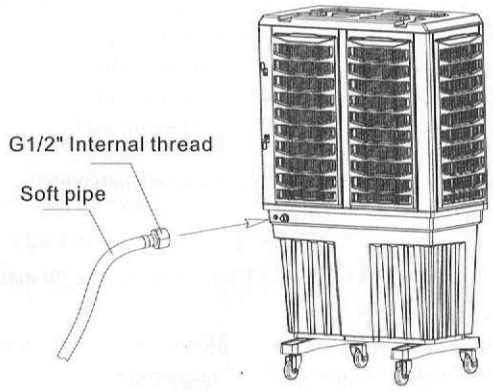
Before use this product, the product need installation the product as below photo:



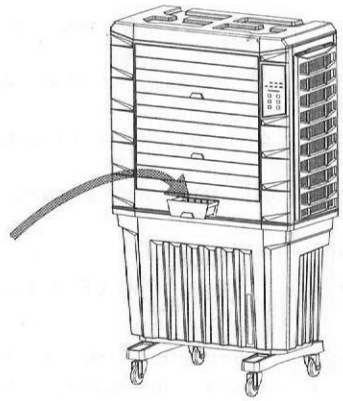
No.	Description	Quantity
1	Wheel with brake	2
2	Water tank bracket	2
3	Screws ST5 *25	32
4	Wheel without brake	2

5.Fix water pipe as necessary

Water inlet A:

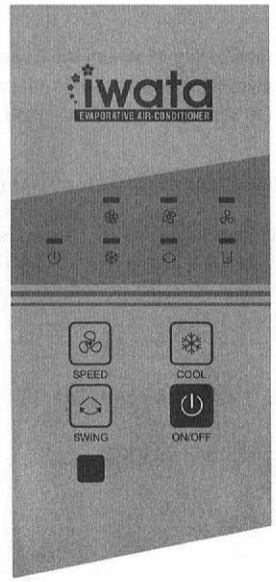


Water inlet B:

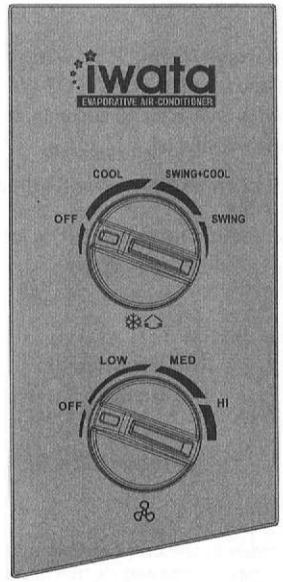


6. Operation

The following functions are available both on the main control panel of the unit and on the remote control:



Turbo Air ECO-125R
Turbo Air ECO-180R



Turbo Air ECO-125M
Turbo Air ECO-180M

Light (LED) indicators:

High/Middle/Low: light shows the currently set airspeed level.

Power: light is on when the unit is powered.

Cool: light is on when the unit is working in cooling mode.

Swing: light is on when the vertical louvers are oscillating.

Shortage of Water: flickers or keeps on when water level in the tank is below minimum.

Pushbuttons (keys):

- **On/Off:** Press the ON/OFF button to start the unit. Press the ON/OFF button again if the "Standby" mode is needed.
- **Wind Speed:** Set the desired air flow speed of the Evaporative Cooler by pressing the "Wind Speed" button, the indicator light will show "High", "Middle" or "Low" accordingly.
- **Cool:** Press the COOL key during the "Standby" mode. The cooling indicator light will stay on, then flash, the pump will start and then the machine will start. This will take approximately 30 seconds.
- **Swing:** Press the SWING button to start or stop the vertical louvers from oscillating.

Alarms:

- **Water Shortage Alarm:** If the water level in the tank goes below minimum the Evaporative Cooler will beep and the "SHORTAGE OF WATER" light will flicker. If the water level is not brought back up to the normal level after 15 seconds, the "SHORTAGE OF WATER" light will keep on, the pump and the cooling will shut off.

  Note: The Fan and Swing will still remain operable when the Cooling is shut off.

- **Rotary switch:** The switch(UP) is for operating pump and swing, switch(Down) is for Operating fan and select the speed of fan.

Remote Control

The remote control has the same features as the control panel on the unit.

Batteries: The Remote Control requires (2) AAA Batteries.

7. Maintenance and Cleaning

⚠ WARNING

Stagnant water may cause bacterial growth and serious health problems. Do not allow stagnant water to remain in the tank.

During regular use, fully drain the tank and renew the water each day.

Drain and clean the water tank before storage, after seasonal use and whenever the unit is not used for more than one week.

Maintenance is key for your cooler to have an effective and long service life. Keep your unit in good condition to avoid unnecessary parts replacement.

7.1 Be sure to shut down and unplug the cooler before performing maintenance or cleaning.

7.2 Completely drain the tank by removing the drain plug from the base and opening the drain valve.

7.3 Remove the two screws on the top of the cooling pad panel and gently pull off the panel.

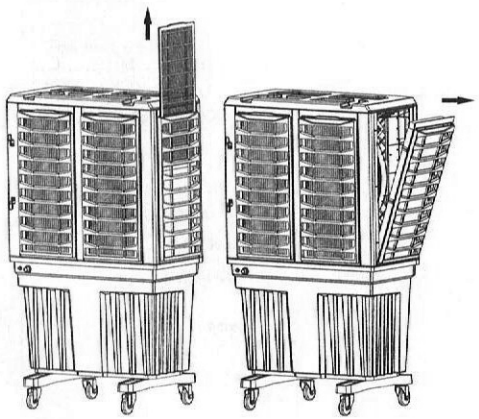
7.4 once a week. Use a soft cloth or soft plastic bristle brush and water only, remove the accumulated dust and debris.

7.5 The evaporative cooler pad should be rinsed with gently running water only.

7.6 Close the drain valve and reinstall drain plug and the cooling pad set after finishing maintenance.

7.7 Cleaning the cooling pad:

(1)

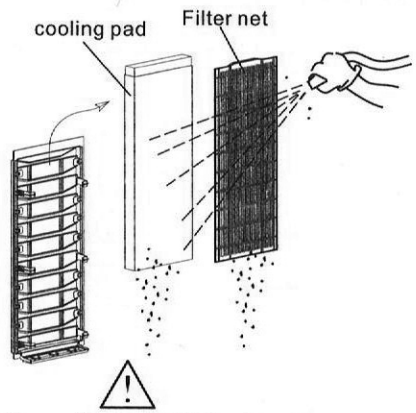


A

B

A. Put out the filter net.
B. Lift the cooling pad gently and pull out to remove it.

(2)

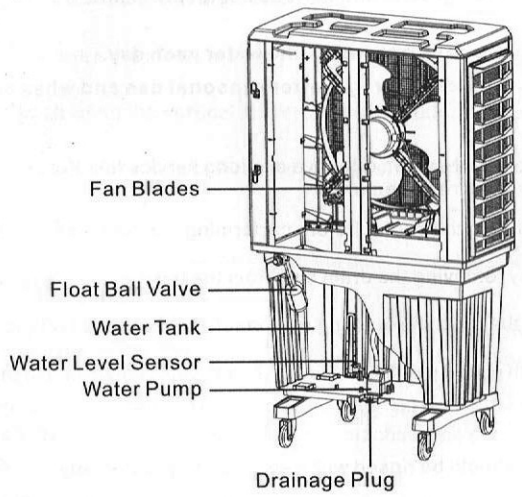


Wash the cooling pad with fresh running water. **Do not use high pressure water. Do not use acid or alkaline chemicals.**

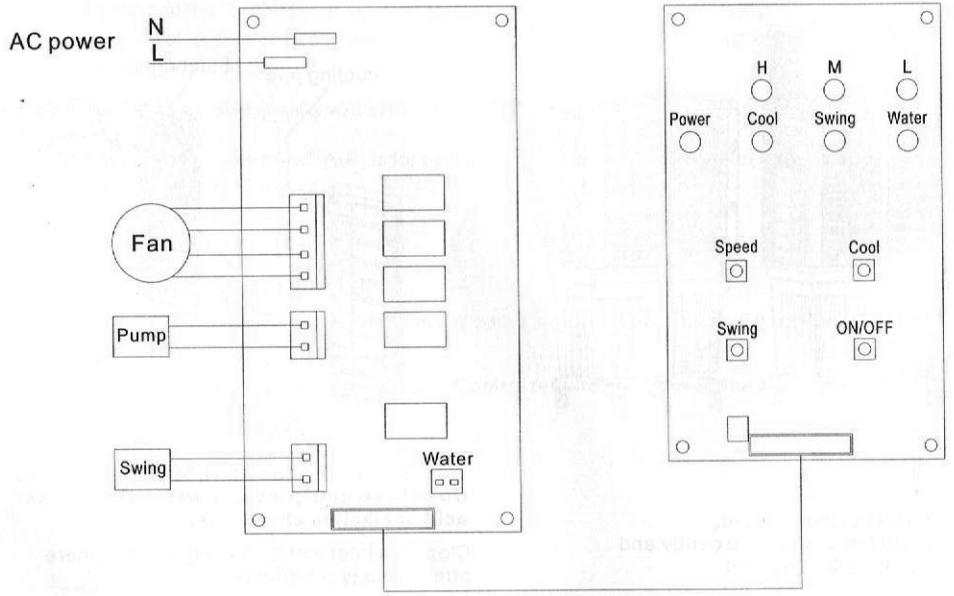
Clean the inlet air filters every week or more often in dusty conditions.

7.8 Cleaning inner parts

Clean the fan blades, float ball valve, water tank, water level sensor, water pump and drainage plug.



8. Wiring Diagram



9. Trouble shooting

Problem	Cause	Solution
The unit does not start	1.No electricity 2. Blown fuse 3. Switch is "OFF" 4. Motor overheating 5. Wiring failures/short circuit	1.Check electrical supply 2. Change the fuse 3. Switch on the unit 4. Call a qualified electrician 5. Call a qualified electrician
Insufficient cooling	1.Lack of ventilation 2. Air outlet incorrectly directed or positioned 3. Air filter and/or evaporative panel clogged with dust 4. Distributor clogged or broken 5. Insufficient water flow through panels 6. The pump does not work 7. The water feed piping is loose 8. The pump filter is clogged/dirty 9. The inlet water filter is clogged or the check valve is installed incorrectly	1.Open doors/windows to improve ventilation 2. Remove the interference source 3. Replace the air filter and/ or evaporative panel 4. Unclog or replace the distributor 5. Check the pump, make sure the hose is not bent 6. Call a qualified electrician 7. Check for leaks, inspect seals 8. Replace pump filter 9. Clean inlet water filter and be sure that check valve is installed correctly
Inadequate airflow or excessive humidity	1. Motor overload 2. Air circulation is insufficient 3. Evaporative panels are obstructed or dirty	1. Call a qualified electrician 2. Open doors/windows to increase ventilation 3. Clean or replace evaporative panels
The motor shuts off	1. The fan blades are misaligned	1. Call a service technician
The unit produces abnormal noise	1. Foreign parts inside the casing 2. Unbalanced or misaligned fan blades 3. Loose parts or screws	1. Check and remove foreign parts 2. Call a service technician 3. Check and tighten screws
Unpleasant smells	1. Stagnant water in the tank 2. Air filter clogged or dirty	1. Drain, wash and clean tank 2. Replace air filter

Note: this list is only for reference. Shall you need any assistance, please contact one of our dealers.