

Instruction Manual

Pond Aeration Kit

TP-30, TP-30A, TP-60



- Improves oxygen and circulation
- Helps biological processes in ponds
- Stops water freezing for ponds in winter
- All-in-1 with all the accessories
- Flow adjustable

Thanks for buying this product. To ensure you use the product safely and correctly, please read thoroughly this instruction before use. Please note that we are not responsible for any failure caused by misuse or improper maintenance.

SAVE THIS INSTRUCTION FOR FUTURE USE.

Important Safety Precautions

- **NEVER PLACE THE AIR PUMP IN WATER.**
- Please operate the appliance under the rated voltage and frequency indicated on pump rating label or instruction manual.
- This pump is solely intended to pump air. DO NOT use for oil, solvents, or any petroleum products.
- DO NOT pull the power cord to move the pump.
- DO NOT change plug or shorten power supply cord by yourself.
- Always use a properly grounded AC outlet. DO NOT immerse the pump's plug in water or attempt to plug in a wet plug.
- Always unplug the unit from its power sources before installing or servicing. Should the unit appear to be not working, DO NOT attempt to reach, remove, or disassemble before disconnecting from the power source.

Warning: In case the pump falls into the water, cut off the power before any further action is taken.

Pond Aeration Kit Specifications & Accessories

Model Number	TP-30	TP-30A	TP-60
Wattage	18Watt	18Watt	25Watt
Max. Air Flow	1.06CFM (475GPH)	1.06CFM (475GPH)	1.77CFM (792GPH)
Max. Air Pressure	0.03MPa (4.35psi)	0.03MPa (4.35psi)	0.03MPa (4.35psi)
Recommended Pond Volume	2000-5000 Gallon	5000-10000 Gallon	10000-15000 Gallon
Recommended Pond Depth	6.5ft	6.5ft	8ft
Power Cord Length	6ft	6ft	6ft
Air Tubing Length	1 roll of 20ft	2 rolls of 20ft	2 rolls of 20ft
Outlet Fitting	3/8"	3/8"	3/8"
Number of Air Diffuser	1pc (L-7.9" x D-1.2")	2pc (L-7.9" x D-1.2")	2pc (L-7.9" x D-1.6")
Adapter Bonnet	1	1	1
Hose Clamp	1	2	2
Flow Regulator	1	/	/
Air Manifold with Flow Regulator	/	1	1

Installation

1. Make sure you have all the accessories in the package (see the table above).



1

Adapter Bonnet



2

Air Tubing



3

Air Manifold



4

Flow Regulator



5

Air Diffuser



6

Hose Clamp

2. PLACE THE PUMP IN A DRY, WELL VENTILATED AND SHADED PLACE, WHERE IT WILL NOT BE EXPOSED TO WATER, EXCESSIVE DUST AND MOISTURE.

3. Make sure the air pump is placed ABOVE WATER SURFACE. If the air pump is placed below water surface, a CHECK VALVE (to be obtained separately. Make sure the inlet and outlet of the check valve is of 3/8" outer diameter) should be used to avoid the water from backflow, which will damage the pump.



4. Follow the sequence below for the connection.

Air pump outlet – adapter bonnet – air regulator – air tubing – air diffuser

- Connect the large side of the adapter bonnet to the outlet of the air pump
- Connect the small side of the adapter bonnet to the air regulator (for TP-30) or the air manifold (for TP-30A and TP-60)
- Connect the other side of the air regulator or the air manifold to the weighted air tubing
- Connect the other side of the air tubing to the air diffuser
- The connection between the air tubing and the air diffuser should be secured by the hose clamp. Tighten the clamp with a flat head screwdriver.



5. Adjust the flow.

For AP-30

A flow regulator is included in the package. To adjust the air flow, simply turn the knob of the regulator.



For AP- 30A / AP-60

The flow regulator is on the manifold. There is no separate regulator for these 2 models.



6. When the above connection is done, position the air diffuser at the desired place in the pond.

Max water depth.

A. Note that the depth of the air diffusers should follow the Max. Water Depth. If the air diffusers are placed deeper than the Max. Water Depth, it is possible that there will be not enough or no bubbles coming out. It will also shorten the life expectancy of the pump.

B. During winter time the diffusers should be moved to shallow water area (1 to 1.5ft below water surface).

Winter Application (Deicing Function)

The aeration kit can be used as a deicer in water. The bubbles and water movement created at the surface help to maintain a small opening in the ice for your fish to breathe. DO NOT place the diffuser on the bottom of the pond during winter as it may disrupt the natural thermocline in the deeper layer of the pond where the fish are overwintering. Place the diffuser about 1 to 1.5 ft below the water surface.

Maintenance

Caution: Before the maintenance, make sure the below is strictly followed.

1. Disconnect the tubing from the pump;
2. Then unplug pump.

Anti-dust filter

The air pump doesn't need any particular maintenance. However, periodical cleaning of the anti-dust filter, which is positioned on the top of the pump, is needed. Pull off the top cover to take the filter out. Simply blow it with a blower, or tap it gently. If the filter gets too dirty, find a similar filter in the market; cut it to the same size and put it back in place.

Membrane

Your pump will need a maintenance kit every 1-3 years depending

on the operating depth, air quality and operating temperature. If there is a notable decrease of air output or no air output, generally the pump membrane and the related parts will need to be replaced. Check with your retailer for the availability of the membrane. The availability of the membrane will be dependent on regulation of the local laws as in some countries the users are not allowed to do the self-maintenance.

Air Diffusers

Through normal use, the air diffusers will eventually become clogged with buildup and debris. We recommend replacing the air diffusers every season for maximum performance.

Winter Care

This air pump can be operated through freezing conditions. If not running the pump through the winter, the pump should be properly covered or stored in a frost-free location.

Troubleshooting

If you have loss of airflow, check the following:

- Air Flow Adjustor. Check to make sure the air flow adjustor has not been turned down.
- Air Filter. Check air filter for excessive dust and debris and clean, or replace if necessary.
- Airline. Check the airline for signs of leaks or clogging.
- Air diffusers. Check air diffusers for excessive buildup and clean or replace.
- Membrane. If the above has been checked and airflow is still reduced, it may be the time to replace your membrane.