200*200mm

Instruction Manual

Pond Aeration Kit

AP2400P, AP2800P

Important - Winter Care

Move air stones to shallow water area (1-1.5ft depth) to avoid ice formation.

- 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
- Super quiet operation
- Energy efficient

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.

Installation

1. Make sure you have all the accessories in the package.
   AP2400P (2-outlet): 2 x check valves; 2 x air stones; 2 x 30ft of airline rolls
   AP2800P (4-outlet): 4 x check valves; 4 x air stones; 4 x 30ft of airline rolls
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 level. If the air pump is placed below water level, a check valve should be used to avoid the water from backflow. The check valve is included in the package. To use the check valve, cut the airline tubing into 2 pieces, connect one piece to the inlet of the check valve, and another piece with the outlet of the check valve. Make sure the direction (inlet and outlet) is correct as the check valve only allows air to flow one-way.
4. Connect one side of the air tubing to the air outlet of the air pump;then connect the other side to the air stone. Position the air stone at the desired place in the pond.

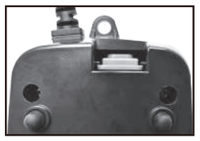
   Max water depth. Note that the depth of the air stones should follow the Max.Water Depth. in Technical Data. If the air stones are placed deeper than the Max. Water Depth, it is possible that there will be no bubble coming out.
5. Adjust the flow. The flow is adjustable by turning the control knob (air flow adjuster) on the top of the air pump

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 in front of the air intake, is needed. The filter is a small piece of wool pad. Simply blow it with blower, or tap it gently.
If the filter gets too dirty, replace it with the replacement filters included in the package.
The filter is at the back next to the power cord.



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The filter

Membrane
If there is a notable decrease of air output, the pump membrane and the related parts might 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.

IMPORTANT - Winter Operation Solutions

Q: Any winter care considerations?

A: Position diffusers at mid-depth (≈50% maximum depth). This configuration slows surface freezing while creating thermal buffer zones at pond bases (typically 2-4°C warmer than surface), providing aquatic life refuge. Synergistic use with thermostatic devices optimizes results.

Q: Can aeration systems maintain ice ventilation openings?

A: Continuous microbubble-induced water movement maintains ice ventilation holes in most temperate zones. For polar regions, we recommend hybrid "oxygenation+ anti-freeze" systems: This dual approach ensures ice perforation preservation and hydraulic circulation while reducing heater wattage requirements (typically 30-50% reduction), achieving energy-efficient performance. The system maintains dissolved oxygen above 5mg/L safety thresholds.

Air Stones
Through normal use, the air stones will eventually become clogged with buildup and debris. Periodically clean air stones throughout the season. We recommend replacing the air stones every season for maximum performance.

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.
- **Airline.** Check the airline for signs of leaks or clogging. Also check the airline for kinks restricting airflow.
- **Air Stones.** Check air stones for excessive buildup and clean or replace.
- **Membrane.** If the above has been checked and airflow is still reduced, it may be time to replace your membrane.

Technical Data

MODEL	POND SIZE	FREQ./ VOLT.	POWER	MAX FLOW	PRESSURE	MAX WATER DEPTH
AP2400P	UP TO 1000GAL	120V/60Hz	4W	96GPH	0.016MPa	2ft
AP2800P	UP TO 2000GAL	120V/60Hz	8W	192GPH	0.018MPa	2ft