



Instruction Manual

High Pressure Air Pump

NP-10A
NP-20A
NP-30A

- Quiet and energy efficient
- Super high pressure
- Flow rate adjustable
- For multiple uses
 - Koi pond aeration
 - Aquarium oxygenation
 - Hydroponics aeration
 - Air assist for laser cutting
 - Compost tea brewing
 - Septic aeration

TENYON

Shenzhen Tenyon Technology Co., Ltd.

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 Cautions

- 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 as this will damage the cord.
- 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.

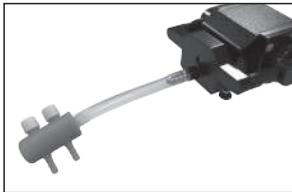
The Accessories

Follow the check list below to make sure the accessories are complete in the package.

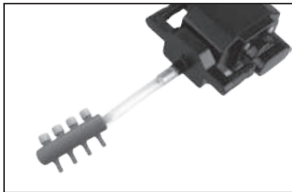
Model	NP-10A	NP-20A	NP-30A
Short tube (Inner Diameter 3/8")	1	1	1
Manifold	2-outlet Plastic	4-outlet Plastic	6-outlet Metal
Airline Tubing (Inner Diameter 3/16")	10ft x 1	20ft x 1	30ft x 1
Check Valve	2	4	6
Air Stone	2	4	6

Pump Installation

1. Place the pump on a solid level surface.
2. Fit the short tube to the outlet of the air pump. Make sure the fitting is tight. Then insert the air manifold into another end of the short tube.



NP-10A

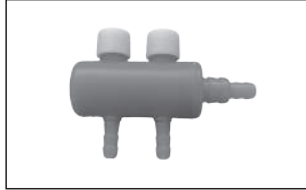


NP-20A



NP-30A

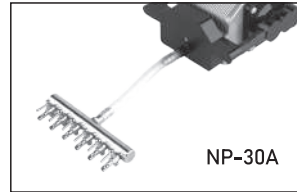
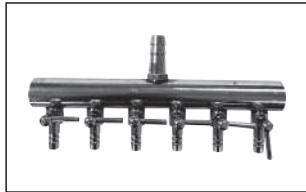
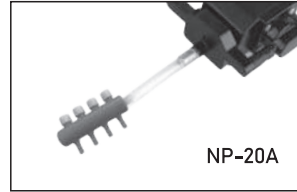
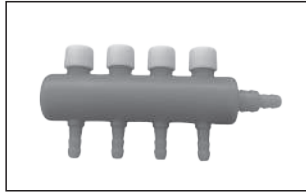
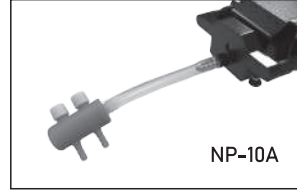
Manifold



Outlet Pipe



Connection



3. Fit the airline tubing (inner diameter 4mm or 3/16inch) onto the air outlets of the manifold and ensure it is secured in place. (Cut the included airline tubing to the desired length)

4. A check valve (non-return valve) should be fitted to the airline tubing to ensure that water is not sucked back into the pump when the pump is installed below the water level or when the power supply is turned off. To fit the check valve to the air tubing, cut the airline tubing and fit the tubings to the inlet and outlet of the check valve.

NOTE THE CHECK VALVE ONLY WORKS IN ONE DIRECTION. MAKE SURE THE CHECK VALVE IS CONNECTED IN THE RIGHT DIRECTION.

5. Attach the other end of the air tubing to an air stone.
Place the air stone in water. Locate the air stone(s) in a position to maximize the aeration. If using multiple air stones ideally position them in different parts of the water.

6. Air Regulator - This pump comes with an in-line air regulator. Turn the dial of the regulator to adjust the air flow. The manifold also features independent regulators for each outlet.

Pump location

The pump should be positioned on a solid flat, horizontal surface when in use. Make sure the pump work in a dry and dust free environment.

If you do not wish to operate the air pump for 12 months of the year, store the air pump safely in a dry environment and where temperatures will be above freezing.

Maintenance

This air pump has been designed to allow for quick and easy maintenance. The air pump contains rubber parts, for example the diaphragm and flapper valves, which can wear over time.

The product has been specifically designed to make the replacement of these parts as convenient as possible.

THE MAINTENANCE OF THIS PRODUCT MUST BE COMPLETED BY A TECHNICALLY COMPETENT PERSON. IF IN ANY DOUBT PLEASE CONSULT THE RETAILER WHERE THE PRODUCT WAS PURCHASED.

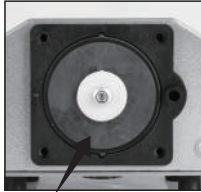
ALWAYS UNPLUG OR DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE STARTING MAINTENANCE.

Replacing the air stone

The diffusion of air from air stones will deteriorate over time. In order to maximize the efficiency of air output, air stones should be replaced every year.

Replacing the diaphragm

If the diaphragm is replaced every year, the efficiency of the pump will be maintained at a consistently high level.



Diaphragm

The diaphragm is a key component for pushing air out. If it's broken there will be no air coming out. Refer to the package of the replacement parts for more details about the replacement.

Troubleshooting

ALWAYS UNPLUG OR DISCONNECT THE PUMP FROM THE POWER SOURCE BEFORE STARTING MAINTENANCE.

- Increased noise / Low air output / No air output

1. Check for restrictions to the airflow:

- Check the air tube isn't kinked or trapped.
- Check there isn't an obstacle on top of the air tube.
- Check there isn't a piece of dirt obstructing the air tube.
- Check the check valve in the air tube is operating effectively.
- Check that the air stone is in good condition and whether it needs replacing.
- Check to see whether the rubber seals, flapper valves or diaphragm need replacing.

2. If only using very few air stones, the back pressure may cause the noise. Add extra air stones.

Technical Data

Model	Flow Control	Power	Air Output	Air Pressure	Manifold Outlets
NP-10A	Yes	6W	200GPH (12.5LPM)	0.025Mpa	2
NP-20A	Yes	8W	317GPH (20LPM)	0.025Mpa	4
NP-30A	Yes	16W	475GPH (30LPM)	0.03Mpa	6