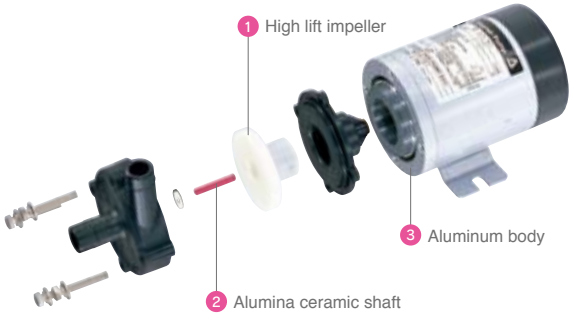
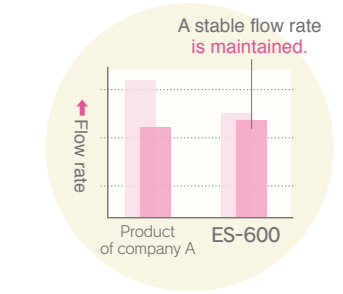
What is the ADA's filtration system?

A filtration system that purifies water is the heart of a planted aquarium tank.
A filtration system maximizes the capability of microorganisms
and provides the stable purification ability for a long period of time.

The filtration system with Super Jet Filter creates an ideal aquatic environment.

The high-lift motor design provides stable filtration capacity for a long period of time.





Compared to other manufacturer's products, the flow rate of ADA's filter does not decrease after filling the filter with media.

1 Original impeller realizing high lift

Original impeller produces the high lift that is the characteristic of Super Jet Filter ES-600.

2 A wear-resistant shaft for the impeller

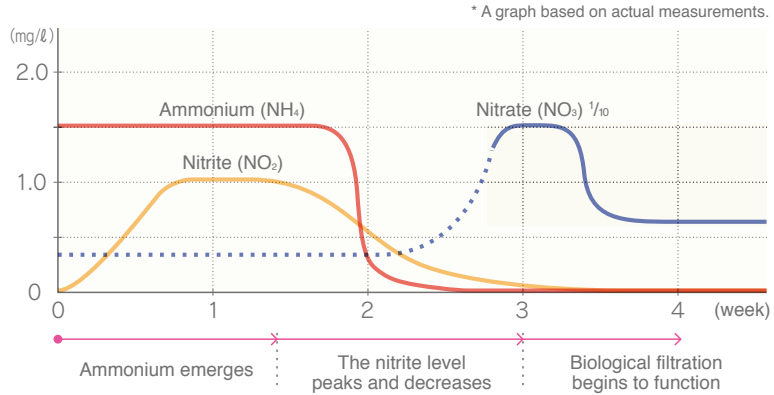
Alumina ceramic shaft with wear-resistant property supports the performance of impeller.

3 Durable aluminum body

Made of durable industrial quality aluminum body. Provides performance and reliability that can be appreciated through long-term use.

What are the advantages of ADA's filtration system?

Super Jet Filter is equipped with a large capacity canister to maximize the biological filtration ability of the filter media.



The above chart shows changes in the amounts of nitrogen compound present during the initial setup period.

ADA's filtration system holds a large amount of filtration media and enables the filter to function well, even during the initial setup period when the water quickly becomes dirty.

Robust stainless body provides a large capacity for filtration media, producing extra filtration ability.

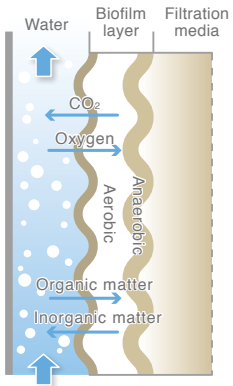
The lineup of professional quality products

Three sizes in each of three series.

All parts including motor, canister, buckles, and elbows are designed with durability and professional quality in mind.

Filtration media that can be selected and combined according to an aquarium condition.

There are chemical filtration media and biological filtration media. Filtration media should be selected based on the effects and properties of the individual media.

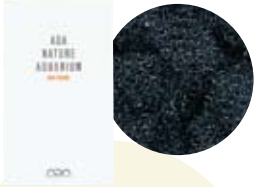


A model of biological filtration media surface

Bio Rio

This prevents the biofilm on a media surface from becoming too thick, and it maintains aerobic and anaerobic environments in the filtration media in a good balance for a long period of time.

Effect: Biological filtration
Material: Pumice stone/ bacteria



Bio Cube

This media is especially effective during the initial setup period of an aquarium as its excellent water permeability allows microorganisms to colonize it quickly.

Effect: Biological filtration
Material: Polyurethane foam

It is important to take advantage of the adsorption ability of chemical filtration media until microorganisms colonize biological filtration media.

NA Carbon

This offers an outstanding absorption capability that is more than 20 times that of general purpose activated carbon for aquarium use. It is also effective against yellowing of the aquarium water.

Effect: Chemical filtration
Material: Activated carbon (pH adjusted)

Bamboo Charcoal

Its solid form and large particle sizes minimize the clogging of a filter, and it helps to create an even flow of water for the subsequent layers when placed at the bottom of the filter.

Effect: Chemical filtration/Biological filtration
Material: Bamboo charcoal

Tourmaline F

The minerals that dissolve from Tourmaline F have the ability to promote growth of aquatic plants in addition to their properties that energize water molecules.

Effect: Replenishes various mineral.
Material: Tourmaline stone

The transition to biological filtration and filter media rotatio.

During the initial setup period when microorganisms have not colonized the filter media yet, water should be purified by taking advantage of the adsorption ability of anthracite. The anthracite should be replaced with biological filtration media later to maximize the water purification effect of the biological filtration.

Filtration though absorption

Anthracite purifies the water by adsorbing contaminants on its surface.

A transition to biological filtration

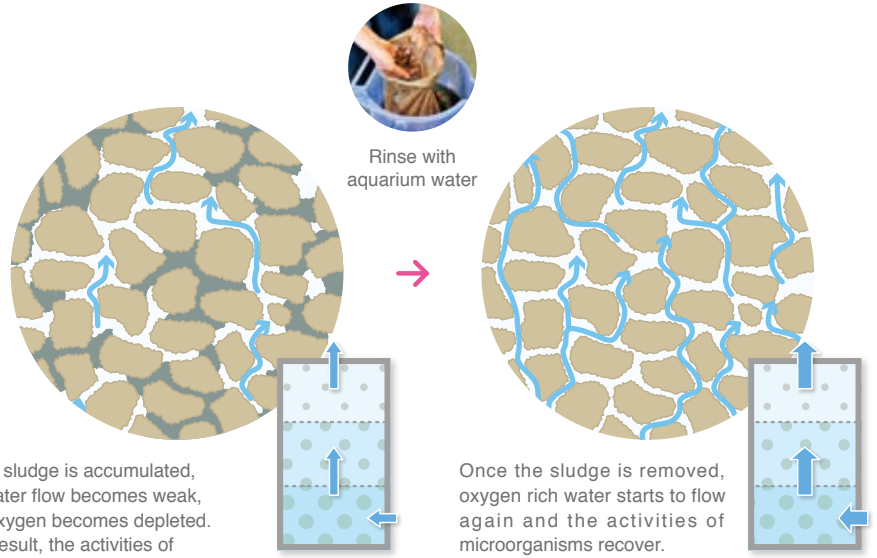
Change anthracite to Bio Rio as the absorption capability of anthracite is limited.

Filtration by microorganisms

Change the remaining filter media to Bio Rio as the last step to maximize the ability of microorganisms.

Maintenance method of biological filtration media

When sludge is accumulated in filtration media, the water does not permeate the media well, and it lowers the microorganisms' activities. In order to maintain a stable filtration performance, it is essential to rinse the filtration media with aquarium water periodically.

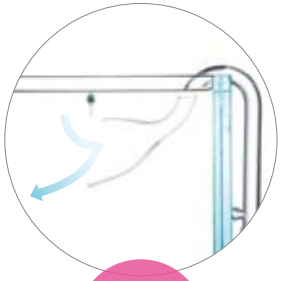


When sludge is accumulated, the water flow becomes weak, and oxygen becomes depleted. As a result, the activities of microorganisms also decrease.

Once the sludge is removed, oxygen rich water starts to flow again and the activities of microorganisms recover.

Filter pipes for creating various water flows that meet on the need of an aquarium.

Having water flow can decrease the unevenness of water condition in an aquarium and produce effects such as enhancing fish's activity. It is important to make an adequate water flow depending on the layout composition and types of fish.



Reduce oil film

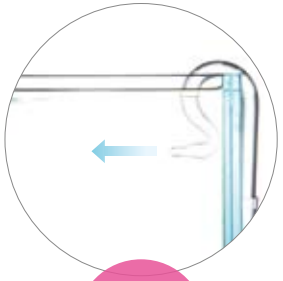
Lily Pipe Series

It creates a current by drawing water at the water surface downward into the aquarium depending on the installation position.

Prevents air bubbles

Violet Glass Series

It creates a downward current that does not draw air into an aquarium, even when the water level becomes low.



Increases fish's physical activities.

Violet Glass Jet

Its narrowed tip creates a strong linear flow.

For an enhancement of viewing

Poppy Glass Series

It creates a moderate current for fish that do not like a strong current.

ADA's glass filter pipes enhance the beauty of an aquascape with a subtle elegance that blends into the water.

Glass pipes do not spoil the appearance of an aquarium

Glass-made filter pipes with beautiful clear and gentle curves blend into the aquascape without a sense of discomfort.

Glass pipes can be cleaned.

Pipes can be kept clean using Spring Washer and Superge.

A summary of basic knowledge of filtration system.

Here are some tips to increase the efficiency of your filtration system.
Maximize your filtration efficiency with correct method.

1

Watch out for a decrease in the flow rate

The flow rate decreases as the impeller that drives the water becomes dirty. The impeller should be kept clean through periodic cleaning.

2

Watch out for trapped air

Air may become trapped in the filter when there is excess load at the water intake. Do not mount sponges or other accessories at the water intake.

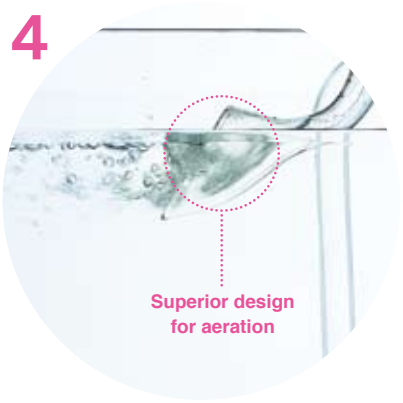
An important role of a filtration system is to maintain adequate water flow and keep filtration bacteria active.

3

Increasing the filtration efficiency

EX and EX2 Filtration in the same 600 series can increase filtration efficiency with their larger capacity for filtration media without increasing the force of water current.

4



Aeration at night

Aeration at night can invigorate filter bacteria and prevent hypoxia. Lily Pipe can aerate an aquarium easily.

Fresh water and
its water current create
a peaceful environment.

Products to keep living
organisms should be handled
only at a reliable store.

株式会社アクアデザインアマノ
新潟県新潟市西蒲区漆山8554-1
AQUA DESIGN AMANO CO.,LTD.
8554-1 Urushiyama, Nishikan-ku, Niigata 953-0054, Japan