

For details:
<http://www.adana.co.jp/en/>

CO₂



CO₂
SYSTEM

Introducing the Nature Aquarium Goods
of Aqua Design Amano.

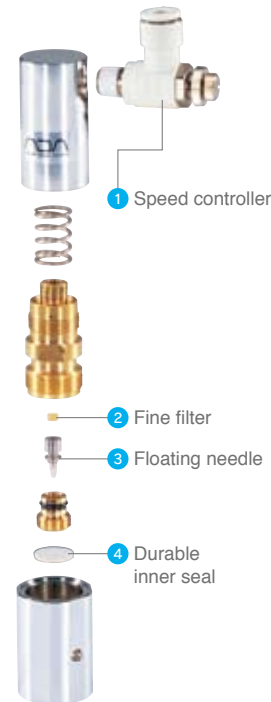
What is the ADA's CO₂ supply system?

ADA has launched the world's first CO₂ supply system with a small CO₂ cartridge. Our knowledge and experience are utilized in the **safety, operability, and expandability** of our products.



CO₂ supply system is effective for promoting photosynthesis activity of aquatic plants.

ADA's original CO₂ regulator provides **excellent safety and accuracy.**



1 Fine adjustment of supply volume

The highly accurate Speed Controller enables precision control of a supply volume down to less than one bubble per second, which is great for a mini aquarium.

2 Prevention of foreign material contamination

Fine filter prevents foreign material from getting into the essential part of the regulator.

3 Safe CO₂ cartridge installation

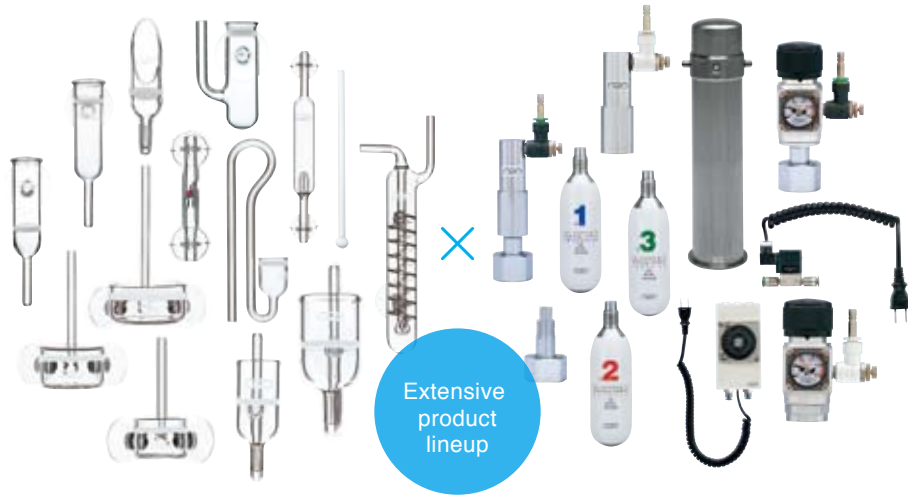
Floating Needle prevents gas leakage and enables the smooth installation of a cartridge without resistance.

4 Excellent durability

Equipped with a durable inner seal that has passed a functional test of more than 1,000 cycles.

What are the advantages of ADA's CO₂ supply system?

ADA's CO₂ supply system satisfies the need of **any aquarium, from a mini aquarium up to a large aquarium**, including **automation, branched CO₂ system**, and more. The excellent availability of the genuine parts ensures a trouble free operation.



Extensive product lineup

You can choose a product based on your tank size and a CO₂ supply volume with an endless possibility for system upgrading.

Rich lineups of CO₂ supply necessary for **system upgrading based on your tank sizes** are available.

1

By attaching **CO₂ Adapter**, you can use a large CO₂ cylinder even with a regulator for small CO₂ cartridge.



* It can only be connected to regulators for small CO₂ cartridge, YA/Ver.2 and SA.

3

By connecting NA Control Timer, the ON-OFF of lighting and CO₂ injection can be automatically controlled.



2

Various **branching parts** are available, so you can easily divide the system even if you have multiple tanks in the future.

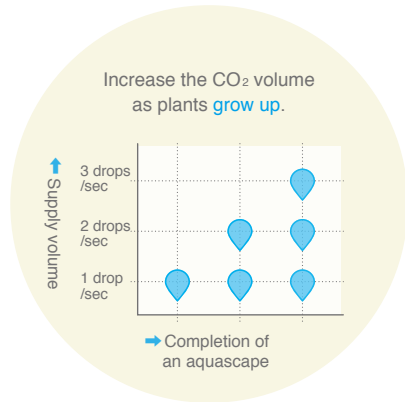


ADA's CO₂ supply system corresponds with your future needs.

What are the variations of CO₂ supply systems?

Glass-made CO₂ diffuser not only has various designs but also **size of diffusion surface from dia.10-50mm**.

By choosing the appropriate size, you can supply CO₂ effectively.



Standard CO₂ supply volume

The key is to start with 1 drop per second and increase the volume gradually according to the plants' growth.



Diffusion surface
15mm

For 60cm tank

A basic CO₂ supply system with Pollen Glass and CO₂ Bubble Counter.



Diffusion surface
10-15mm

For Mini tank

Music Glass with small diffusion surface are suitable as Mini tanks require only a small CO₂ volume.

Choose the most suitable diffuser according to the **tank size** and **types** and **volume of aquatic plants**.



Diffusion surface
20-50mm

For large tanks and tanks with a lot of stemmed plants

Pollen Glass Large or Beetle with large diffusion surface is suitable as such tanks require a large CO₂ volume.

ADA's original CO₂ supply system.

CO₂ supply system developed with ADA's unique concept and style
makes the planted aquarium hobby more joyful.

As it is developed for the hobby, we respect being design conscious.



Tropical fragrances developed after the image of world's three largest tropical forests are added to CO₂.

CO₂ bubbles rising in a spiral is joyful even just looking.



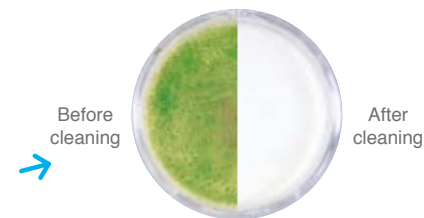
All products adopt stylish designs for presentation.

Easy cleaning method.

ADA's glass-made CO₂ supply equipment can keep the appearance and performance as good as a new product by cleaning with **Superge**, a special detergent for cleaning glassware. Therefore, it can be used in a good condition without losing the performance almost permanently.



For cleaning, simply make a diluted solution with Superge in a Clean Bottle and soak the glass-made product into the solution.



Clean the glass-made products periodically as the diffusion surface becomes clogged with algae.



Secret of

GLASSWARE

Delicate design of the diffusers that even the white diffusion surface is made of glass produces fine bubbles with high supply efficiency.

ADA NATURE AQUARIUM

Reaching the higher end

The CO₂ system with the professional standard has been established as a result of repeated improvement and revision in the development of ADA's various CO₂ supply equipments. The know-how accumulated in our hands-on practice has been fully utilized in the system. Would you be interested in reaching the higher end of Nature Aquarium with the products that produce uncompromising performances?

Do!aqua
NATURE AQUARIUM GOODS *For Beginners.*

Shall we start the first step?

It is a CO₂ system that is developed for the beginners
to meet such needs.

So, the products are designed

in a way that emphasizes on cost-effectiveness.

How about starting Nature Aquarium with Do aqua lineups?

CO₂ supply system allowing more accurate adjustment



CO₂ ADVANCED SYSTEM

Item code: 101-602 black

Item code: 101-603 white

[Contents]

- CO₂ SYSTEM 74-YA/Ver. 2
- CO₂ SYSTEM 74-TROPICAL FOREST NO.1 Amazonian
- POLLEN GLASS for CO₂
- CO₂ BUBBLE COUNTER
- CAP STAND
- BALL VALVE
- Pressure resistant tube (clear 1m)
- Silicone tube (gray and white, 1m of each)
- CHECK VALVE
- Suction cup (medium x 4, small x 8)
- Syringe
- GREEN BACTER

It has a stylish design, and fine adjustment is also possible.



Excellent expandability and quality

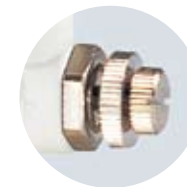
Excellent for people who are looking for a system that can be expanded to accommodate a larger CO₂ cylinder for a large aquarium in the future or those who demand high performance, quality, and stylish design.

ADA NATURE AQUARIUM

To know Mother Nature is to love her smallest creations. We recreate the natural eco-system in our aquarium, which leads to a better understanding of the global environment.

Precision Speed Controller

An important functions required for CO₂ regulators is the adjustment of CO₂ volume. Even the volume, less than a drop per second is adjustable with high accuracy.



The CO₂ flow rate is adjusted with the adjustment screw on the outside and set by tightening the locking nut on the inside.

Original thread pitch and safety seal

The original thread pitch prevents the problem of cross-threading of a small CO₂ cartridge. The safety seal ensures the safety of the system by preventing a small CO₂ cartridge from rupturing due to overheating.



CO₂ System 74 Tropical Forest is equipped with the original thread pitch and safety seal.

“Natural diffusion” of fine bubbles

CO₂ is supplied through “natural diffusion” of fine CO₂ bubbles. Pollen Glass realizes an ideal CO₂ diffusion.



With “natural diffusion,” it is easy to adjust the CO₂ level and avoid hypoxia caused by CO₂ rapidly dissolving in the water.

It is perfect for aquarists who would like to...

enjoy an aquatic plant layout in a mini aquarium, or enjoy it in a cost-effective way. It is also recommended for aquarists who would like to try and see the effect of CO₂.

Do!aqua
NATURE AQUARIUM GOODS For Beginners.

Simplified system

CO₂ Diffuse is a CO₂ diffuser integrated with a CO₂ bubble counter that allows you to visually measure CO₂ supply volume. The integrated design makes it simple to set up the system.



CO₂ Diffuse

Please be sure to use a compatible cartridge.

CO₂ cartridges of the Tropical Forest series are not compatible with Do aqua products. Always use Do aqua genuine CO₂ cartridge.



Do aqua CO₂ cartridge

Tropical Forest series CO₂ cartridge of other brands

A typical CO₂ consumption

If you are concerned about the monthly running cost of CO₂ system, here's what you can expect. You will need approximately two cartridges per month based on the standard supply volume of 1 bubble per second for a mini aquarium.

Approximately
2 cartridges per month
(Based on ADA's data)



Be sure to keep a replacement cartridge on hand.

Its slim shape is ideal for mini aquarium.



You can start adding CO₂ without a problem, even if it is the first time.

NEW



CO₂ STARTER KIT

Item code: 140-000

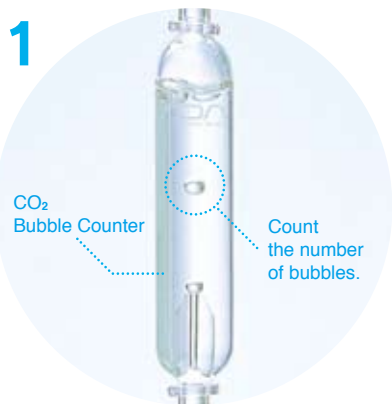
【Contents】

- CO₂ regulator
- CO₂ BOTTLE (35g) × 2 pcs
- CO₂ Bottle stand
- BALL VALVE
- CO₂ DIFFUSE
- Check valve
- Pressure resistance tube (clear, 1m)
- Silicone tube (1m)
- Suction cup (medium) × 2 pcs
- Suction cup (small) × 4 pcs

*Specifications of the product and the contents of a kit are subject to change.

The basic knowledge of CO₂ supply supplementation.

It is essential to understand the correct method to supply CO₂ effectively. The key points are the **duration for CO₂ supplementation** and the **adjustment of the supply volume**.



How to measure supply volume

Count how many bubbles are produced for 10 seconds, and convert it to the numbers of bubbles per second. This value is the number you see in “○ bubbles per second” information.



Standard supply duration is 8 hours

Supply CO₂ for approximately 8 hours during the day while aquatic plants perform photosynthesis based on the ON-OFF cycle of the lighting system.



Watch out for excessive CO₂

The use of Drop Checker is recommended as it makes it easy to figure out the CO₂ level in an aquarium.



Make sure that aquatic plants are performing photosynthesis

Aquatic plants are doing well if they are producing oxygen bubbles within three to four hours after the start of CO₂ injection.

Adequate CO₂ supply promotes photosynthesis, which **produces abundant oxygen** and **creates a stable environment**.



Beautiful tropical fish swim
and attractive aquatic plants
and wave in an aquarium.

Products for keeping living
organisms need to be
obtains from a reliable store.

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