

# Guangzhou Netech Environmental Technology Co., Ltd



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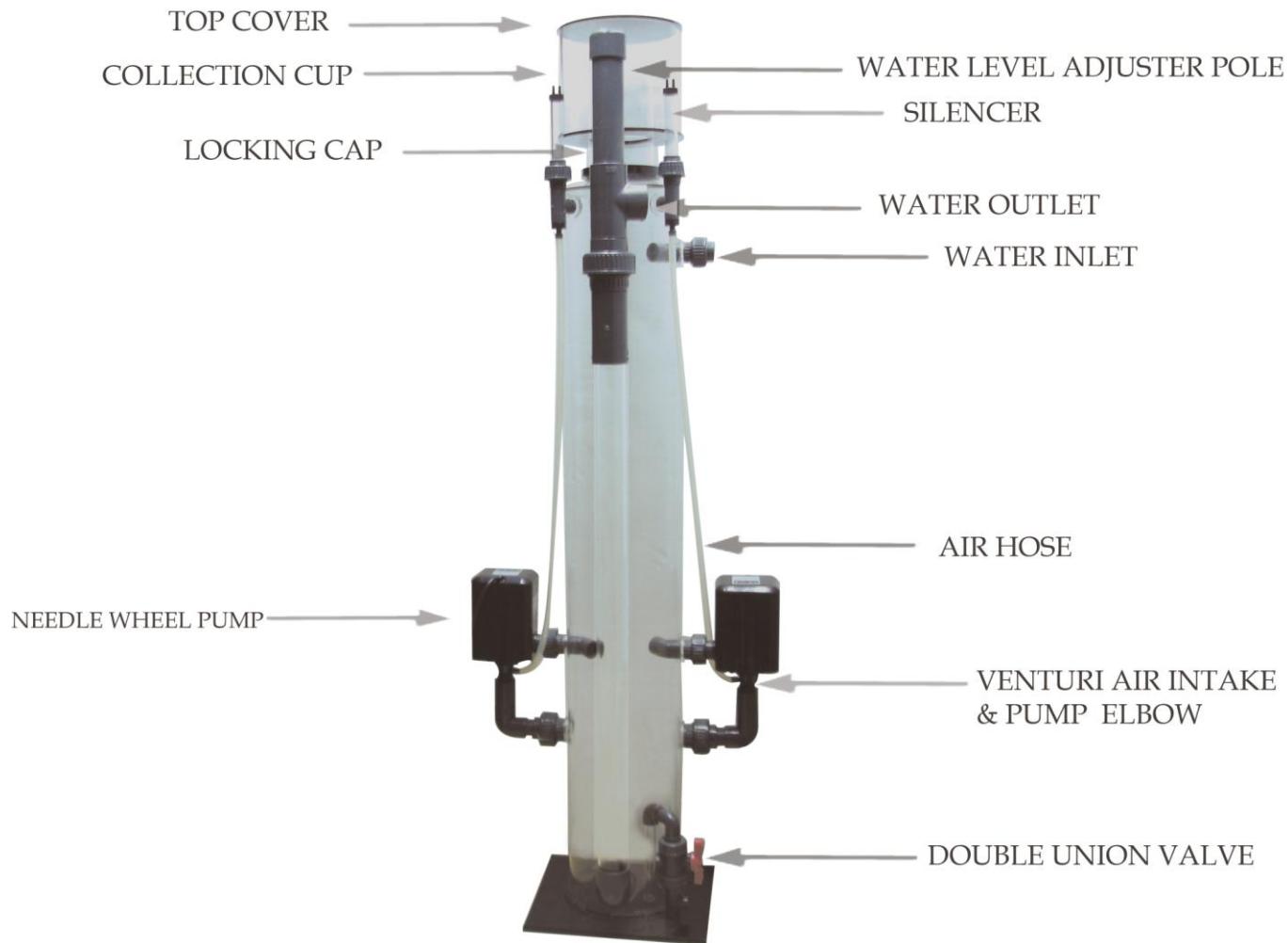
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## Small Protein Skimmer



### Basic knowledge of protein skimmer

Protein skimmers are used mostly in saltwater aquaria to remove organic compounds from the water before they break down into nitrogenous waste. Protein skimming is the only form of filtration that physically removes organic compounds before they begin to decompose, lightening the load on the biological filter and improving the water's redox potential.

Protein skimmers extract dissolved organic waste products (proteins) from the aquarium by mechanically removing them through foam fractionation. Efficient skimmers remove proteins before they breakdown and pollute the water. Skimming enhances the quality of the aquarium's environment as well as its appearance.

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## Features

1. Instead the using of Venturi, Booster pump, low power for saving energy.
2. Using the collecting pipe, no need to clean, for saving water.
3. PDO air intake device produces abundance air bubble, for high separate efficiency.
4. Using two ways water stream design, for high air-liquid mixing result, high separate efficiency.
5. Trouble-free design, long service life but free maintenance.

## Functions of protein skimmer

- ◆ Protein skimming removes certain organic compounds, including proteins and amino acids, by using the polarity of the protein itself. Due to their intrinsic charge, water-borne proteins are attracted to the air/water interface. Protein skimmers works by injecting numerous tiny bubbles into the water column. The small bubbles present an enormous air/water interface for the protein molecules to cling to. The longer the bubble resides in the water, the more proteins it is able to attract. The action of a protein skimmer is often compared to the action of waves producing sea foam.
  - ◆ Besides removing proteins, our skimmers also removes other substances such as fats and fatty acids, carbohydrates, metals such as copper complexed with proteins, and certain trace elements such as iodide, in addition to particulates and other detritus, phytoplankton, and bacteria.
  - ◆ Increasing the dissolved oxygen in water, for improving the biological treatment efficiency.
1. Removing the harmful air in water, stabilize the PH in water.
  2. Mixing ozone in water also has the function of sterilization, disinfect ion and remove algae in water.
  3. Although copper and other metals can be removed through protein skimming, the element is attached to organic molecules, and then removed with the organic. Oil molecules (fats) can cause skimmer foam to collapse, handicapping its efficiency to produce a dry foam.

## Appliance

- ◆ Seafood cultivating factory
  - ◆ Seawater hatcheries
1. Oceanopolis, aquarium etc
  2. Swimming pool water treatment
  3. Sewage water treatment, and the lines used for ozone mixing in water

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## External Big Type (Double plate)

| Model     | Photo | Size<br>(Dia./H mm) | Pump   | Rated/actual<br>power | Max size of<br>tank (L) |
|-----------|-------|---------------------|--------|-----------------------|-------------------------|
| DWS-6000  |       | 300/1000            | 6540×3 | 100W/33W×3            | 6000                    |
| DWS-7000  |       | 300/1000            | 6540×4 | 100W/33W×4            | 7000                    |
| DWS-8000  |       | 400/1000            | 6540×4 | 100W/33W×4            | 8000                    |
| DWS-9000  |       | 400/1000            | 6540×5 | 100W/33W×5            | 9000                    |
| DWS-10000 |       | 400/1000            | 6540×6 | 100W/33W×6            | 10000                   |

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## Catalogue of Big Protein Skimmer



The protein skimmer can be used to reduce the physical and chemical gels. It uses the role of adsorption of surface tension of the bubble to enrichment and separation organic, removal the colloidal suspension, cellulose, protein, bait and faeces and other organics in the wastewater. Meanwhile, the protein separator can be used as an ozone mixing tower, which can separate protein and use ozone to do the disinfections.

### Component parts

Water input, PDO air intake device, mixing chamber, collecting pipe, sewage disposal, ozone adding device, water output etc.

### Working system

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First, water enter from the bottom of Protein Skimmer, "S" shape water stream, water moving up and then roll down to the water outlet;

Second, using the PDO device for producing bubble, and it enters into the mixing chamber with water together, liquid and air fully mixing in water when the water is rolling then reaches to the water outlet, water goes out from the bottom, but the not dissolved & suspended particles are gather in the surface of micro-bubble, then enter into the collecting pipe, coming out from the sewage disposal;

Third, treated water coming out from the main water outlet, water outlet valve can adjust the liquid level of Protein skimmer.

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- ◆ Using two ways water stream design, for high air-liquid mixing result, high separate efficiency.
- ◆ Trouble-free design, long service life but free maintenance.

## Functions

- ◆ Removing organism such as night soil, colloid etc, for reducing the load of biological treatment and ensuring the water quality.
- 6. Increasing dissolved oxygen in water, for improving the biological treatment efficiency.
- ◆ Removing the harmful air in water, stabilize the PH in water.
- ◆ Mixing ozone in water also has the function of sterilization, disinfect ion and remove algae in water.

## Appliance

- ◆ Seafood cultivating factory
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## Specifications

| Model      | Water flow<br>(M <sup>3</sup> /Hr) |      |      | Size<br>(mm) | Water Input<br>/Output Size<br>(mm) |
|------------|------------------------------------|------|------|--------------|-------------------------------------|
|            | 1min                               | 2min | 3min |              |                                     |
| NT-FPS-10  | 10                                 | 5    | 3    | Φ450×1650    | 50/90                               |
| NT-FPS-20  | 20                                 | 10   | 7    | Φ600×1700    | 63/110                              |
| NT-FPS-30  | 30                                 | 15   | 10   | Φ650×2100    | 63/110                              |
| NT-FPS-40  | 40                                 | 20   | 13   | Φ750×2100    | 63/140                              |
| NT-FPS-50  | 50                                 | 25   | 17   | Φ850×2200    | 75/140                              |
| NT-FPS-60  | 60                                 | 30   | 20   | Φ850×2450    | 75/160                              |
| NT-FPS-80  | 80                                 | 40   | 27   | Φ950×2600    | 90/160                              |
| NT-FPS-100 | 100                                | 50   | 33   | Φ950×3050    | 110/200                             |
| NT-FPS-120 | 120                                | 30   | 40   | Φ1200×2800   | 110/250                             |
| NT-FPS-140 | 140                                | 70   | 47   | Φ1300×2700   | 140/250                             |
| NT-FPS-160 | 160                                | 80   | 53   | Φ1300×2900   | 160/250                             |
| NT-FPS-180 | 180                                | 90   | 60   | Φ1400×2900   | 160/250                             |
| NT-FPS-200 | 200                                | 100  | 67   | Φ1500×3000   | 200/250                             |