



# Guangzhou Netech Environmental Technology Co., Ltd

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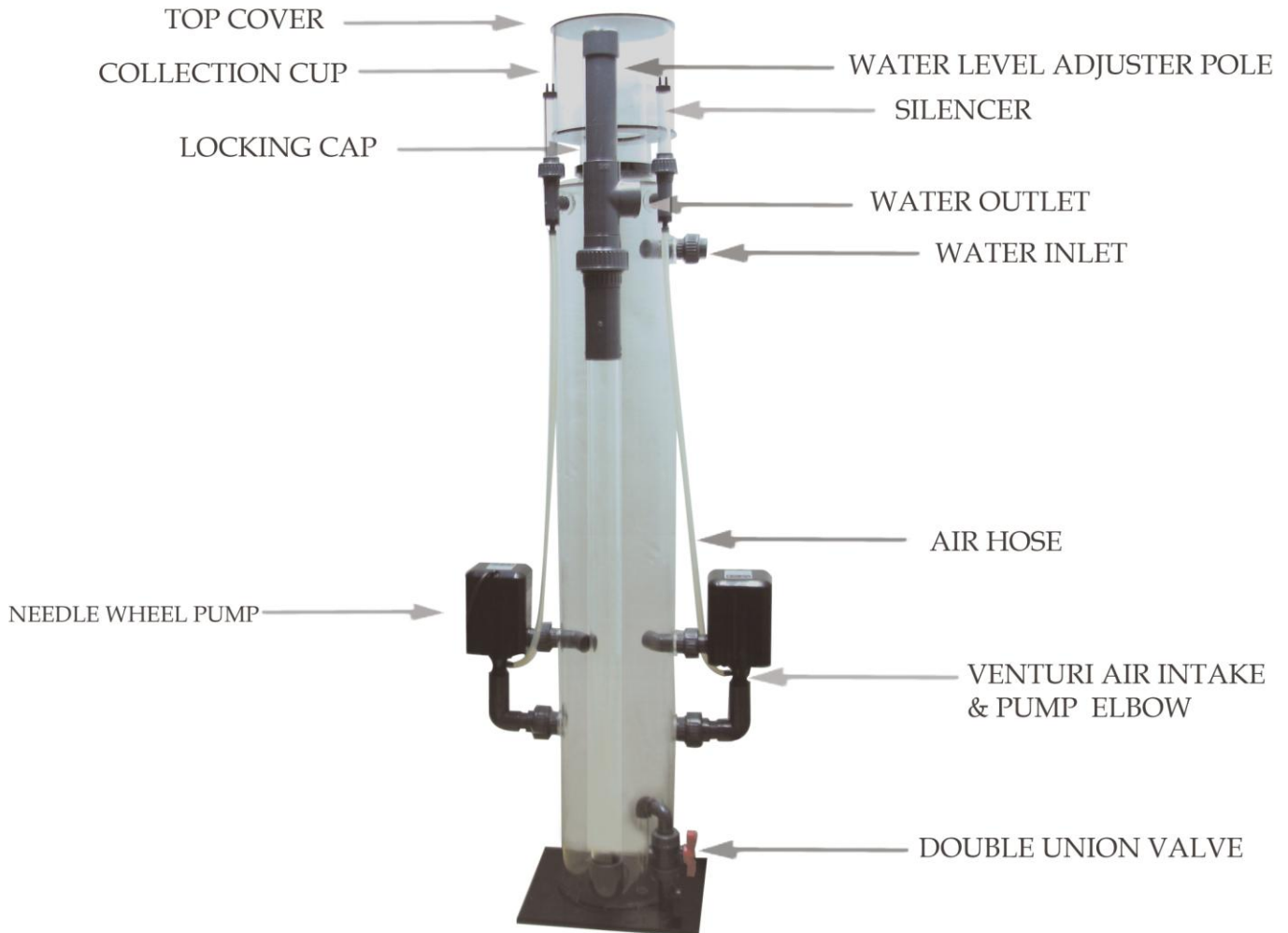
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## Small Protein Skimmer



### 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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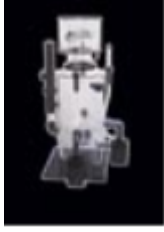




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## External Big Type (Double plate)

Model	Photo	Size (Dia./H mm)	Pump	Rated/actual power	Max size of 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 used 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
- ◆ Seawater hatcheries
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## Specifications

Model	Water flow (M <sup>3</sup> /Hr)			Size (mm)	Water Input /Output Size (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