

# Improve Wastewater Treatment Facilities Function

—With CarbonFiber, activated microorganisms improve biological treatment function—

With activated microorganisms

Improve treatment speed!

Reduce contact time

Improve treatment capacity!

If it is same contact time

Improve water purification!

Equivalent efficacy can be obtained one third contact time faster than before.

## Advantages of Water Purification by MiraCarbon

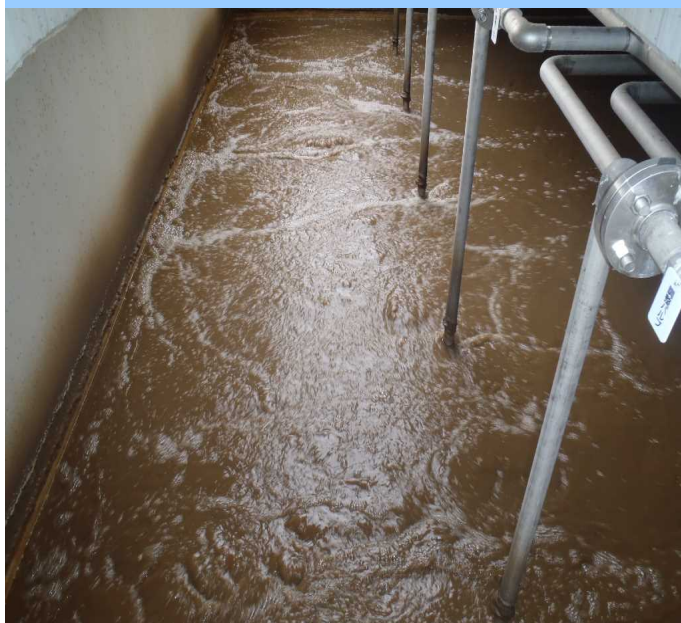
- ☆Fast organic matter decomposition treatment rate by activation of microorganisms.
- ☆Minimal generation of excess sludge, and minimal peeling off of attached matter.
- ☆Large denitrification and dephosphorization effects.
- ☆High suspended particle capture effect.
- ☆Low installation cost, easy maintenance control, and no running costs.

## Water purification by MiraCarbon

- Decrease Biological Oxygen Demand (BOD)
- Decrease Chemical Oxygen Demand (COD)
- Decomposability decrease Total Nitrogen (TN) and Total Phosphorus (TP)
- Adsorbable decrease Suspended Solid (SS)
- Decrease heavy metals adsorption

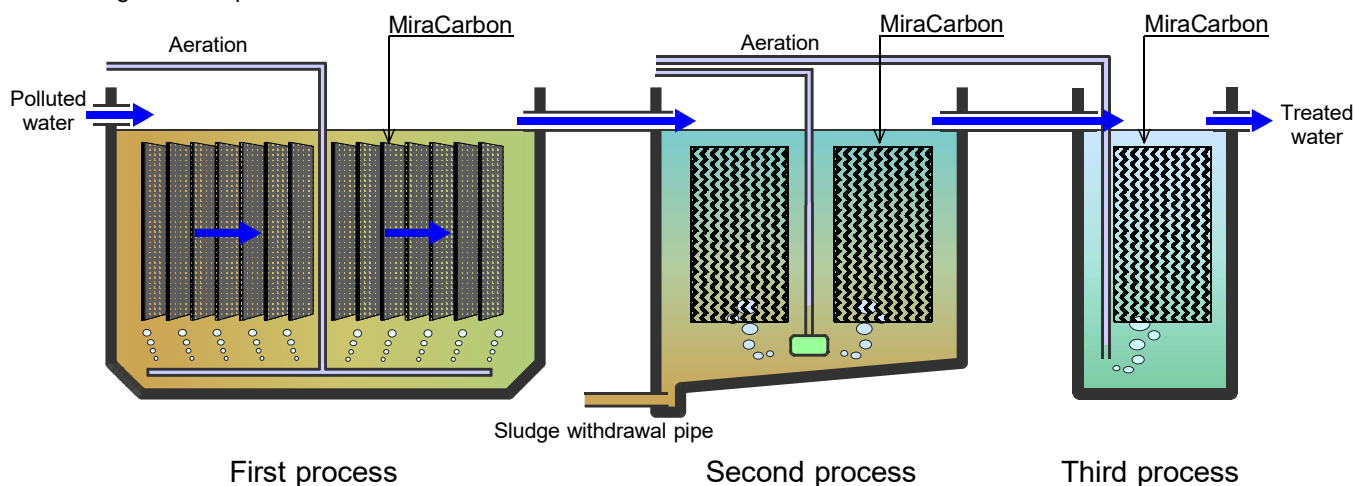
## Installation position of wastewater treatment facilities by MiraCarbon

- Flow equalization tank (load reduction)
- Contact aeration tank (contacting media)
- Settling tank (contacting media, adsorbing media)
- Filtration tank (contacting media, adsorbing media)
- Effluent tank (improvement of effluent water quality)



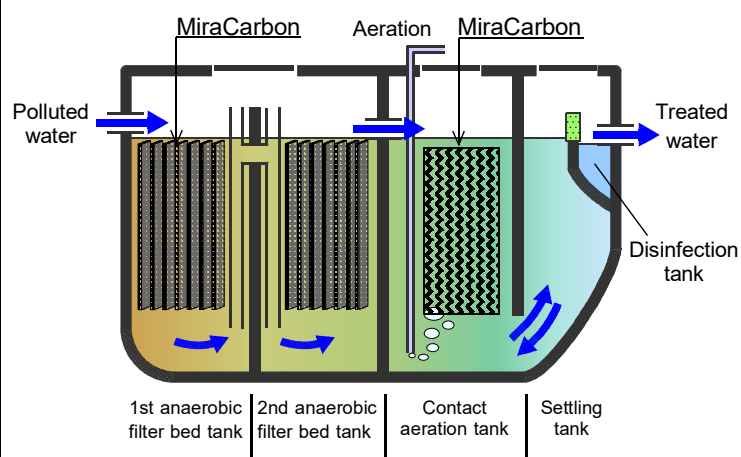
## ■ Biological Treatment Tank

With MiraCarbon, using the activated sludge method and contact aeration method etc. as a contacting media in biological treatment tank, it active microorganisms improvement and stable of treatment.



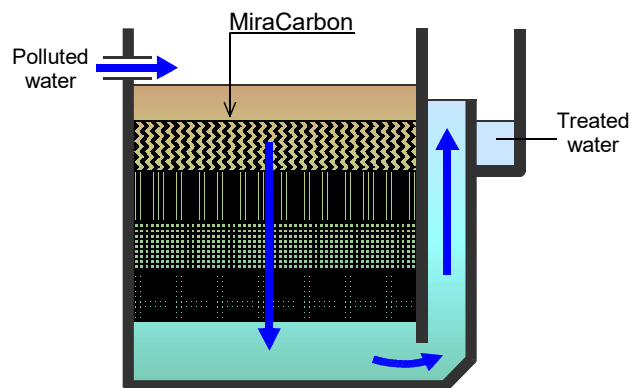
## ■ Septic Tank

With MiraCarbon in anaerobic and contact aeration tank, it promote biological decomposition contaminants.



## ■ Filtration Treatment Tank

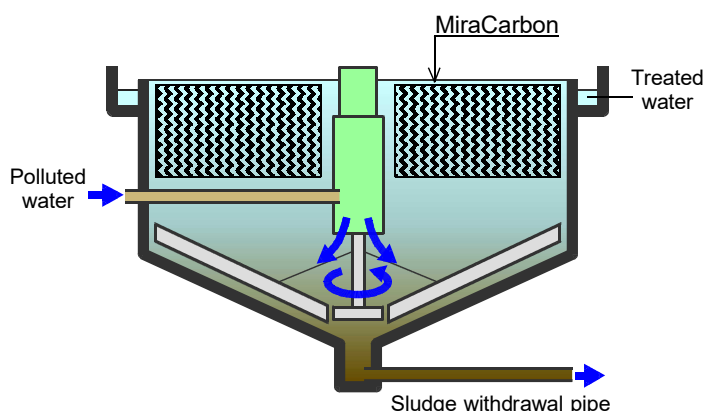
With MiraCarbon in a filtration treatment tank, it expand contaminants adsorption and promote biodegradation.



※A combination of carbon fiber and other adsorption media is effective.

## ■ Settling Tank

Suspended solid and microorganisms in settling tank are adsorbed on the MiraCarbon, it biodegrade and improve treatment water quality.



### ●Contact Aeration Method by MiraCarbon

MiraCarbon will be installed as a contacting media in biological treatment tank, then heavy microorganisms are adsorbed and activated duo to the large surface area and high biocompatibility. This method is easy maintenance control and stable fulfill a function because heavy microorganisms adsorbed in prime condition and treatment wastewater.

### ●Existing treatment tank facilities by MiraCarbon

With MiraCarbon, it expands significant improvement of function simply by installing in existing treatment tank.

### ●Choose installation of MiraCarbon

Textile type is suitable for 1st and 2nd treatment tank like a high-load and large amount of aeration. Tassel type is suitable for aftertreatment settling tank and effluent tank like a long residence time and gently water flow.

Adapted type

Aeration tank etc : MiraCarbon CFH-2 Combination unit

Settling tank etc : MiraCarbon CFK-1, CFS-2 Hanging type

■ Delivery Agent Manufacturers

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