

AquaSust UV Tube Settlers

SOLUTIONS FOR ENHANCED SEDIMENTATION

The Highest Quality Tube Settlers in China
AquaSust Four Guarantee For Quality Control

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Hangzhou Aquasust Water Technology Co., Ltd.

Aquasust Company Introduction

Hangzhou AquaSust Plastic Products Co. Ltd. was founded in 2013 and we aim to offer high-quality plastic parts for water treatment. We established Anhui AquaSust Technology Co., Ltd in Anhui in 2016. As a supplier and manufacturer of MBBR Bio Filter Media, UV Tube Settlers, Disc Diffusers, Tube Diffusers, PVC profiles, and other plastic products for water treatment, we won the National High-tech Enterprise in 2019 and **have 35 patents**. We have a 21000 square meter factory in Yuexi Anhui; 105 fully automatic MBBR production lines, 7 lines of UV Tube Settlers, and 15 lines of injection for Disc and Tube Diffusers.

The annual export of MBBR and UV Tube Settlers is 100,000 cubic meters; the annual export of PVC profiles is 5000 tons. We have passed **some certifications, such as ISO9001-2015, SGS, ROHS, and FDA standard Goods**.

Most of the production is vented to Canada, Mexico, Guatemala, Argentina, France, The Netherlands, Sweden, Italy, Taiwan China, etc. The annual sale is \$15 million. We are committed to becoming a large-scale comprehensive enterprise, involved in MBBR filler production, sales, and water treatment design consulting. The MBBR technology is widely used in Industrial and municipal wastewater treatment; recirculation aquaculture systems (RAS), etc. other water treatment field. We have professional environmental engineers with 20 years of experience, who cooperated with many domestic universities to ensure high quality while ensuring better service. We have been recognized and trusted by our customers, we insist on establishing a career with precision, winning with high quality, and treating each other with sincerity. We look forward to cooperating with you!



Start a career with essence, win through high quality .



AquaSust UV Tube Settlers Highest Quality In China and AquaSust offer Four Guarantees for the Quality

- AquaSust is Trust and Serious Company with 10 years experience on the Plastic parts for water treatment**



AquaSust UV Tube Settlers **12** Certificates

1. AquaSust UV Tube Settlers SGS **FDA**(For Drink Water)
2. AquaSust UV Tube Settlers SGS **-ROHS**
3. AquaSust UV Tube Settlers **Free Phthalate** Certificate
4. AquaSust SGS Density **VOC**
5. AquaSust Tube Settler **Material Food Package**
6. AquaSust UV Tube Settlers **MSDS** polypropylene
7. AquaSust UV Tube Settlers **UV inhibitor certificate**
8. Tube Settles Test Data
9. Specs of PP for UV Tube Settlers
10. Tube settler test report
11. AquaSust UV Tube Settlers Material Guarantee
12. The Delivery Time Warranty

F D A

R O H S

Free Phthalate

UV Certi

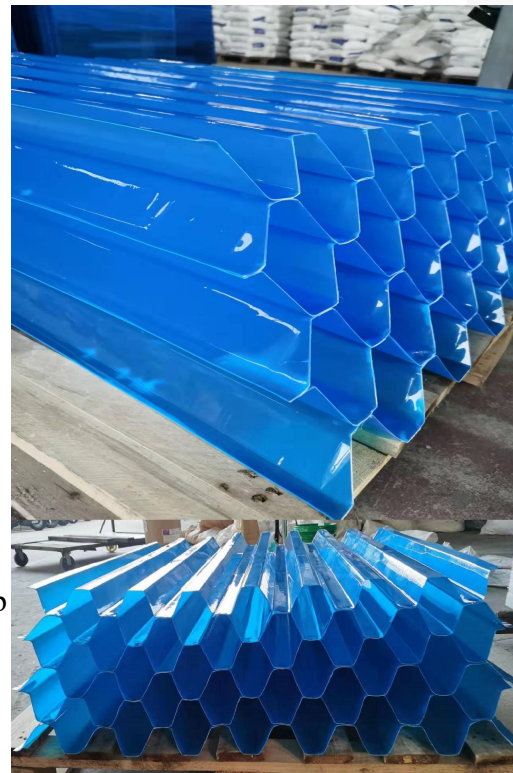
Food Package

M S D S

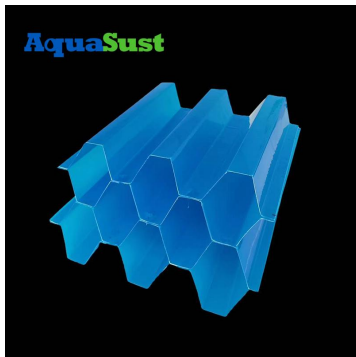
AquaSust UV TUBE SETTLERS

AquaSust UV tube settler systems are meet the most needs of any treatment facility.

- 1.The strongest Hexagon honeycomb moldes increase allowable flow capacity from the increased settling area and add the solids removal rate in Sedimentation tanks.
- 2.The Hexagon Honeycomb mold is the stable and strongest mold with the biggest settling area which makes the settling rate about 4 to 6 times as before.
- 3.By installing and using the AquaSust UV Tube Settlers, we can increase the flow and performance of existing water treatment plants and wastewater treatment plants, and at the same time, it can reduce operating costs with less fit backwashing.
- 4.New installations with UV Tube Settlers have smaller footprints and can accommodate greater flow in the same area, the Hexagon honeycomb UV Tube Settlers can be added to up flow or solids contact Sedimentation to improve performance and handle flow increases.
- 5.Unlike plate settlers, AquaSust tube settler modules can be trimmed to exact specifications for full basin coverage.



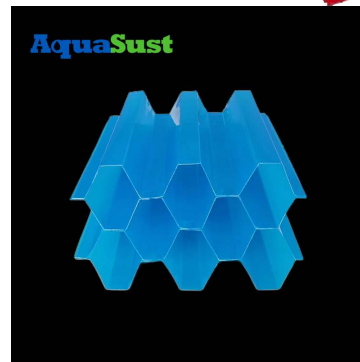
AquaSust UV Tube Settlers



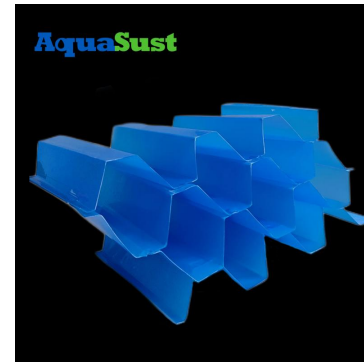
TL25PP



TL35PP



TL50PP



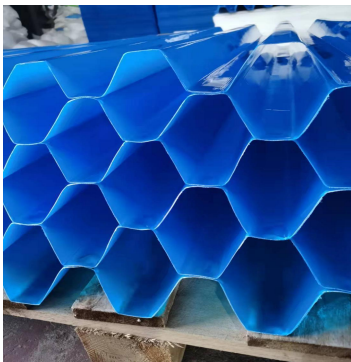
TL80PP

100% virgin New Material with UV Protector/ FDA standard with SGS certificate

1. Sedimentation for **Drinking Water Purification**.
2. **TSS removal** and particle separation.
3. Upgrade of existing sedimentation tanks.
4. Cleaning wash water recycled from vehicle wash systems at quarries and construction sites.
5. Tertiary or secondary clarification for **municipal WWTP**.
6. Wastewater treatment, surface water treatment, and solids/liquid separation.
7. Examples of process wastewater applications: Desalination
 - Food and beverages
 - Heavy metal Waste Water
 - Pulp and paper
 - Petrochemical and Process water
 - Pharmaceutical and Chemical
 - Steel, Machinery, Mining and more

All Kinds of Sedimentation and Carifier and Sand Basin Can be installed

AquaSust Tube Settler systems are an **inexpensive solution** for drinking water and wastewater plants to increase treatment capacity, reduce new installation foot prints, improve effluent water quality, and reduce operating costs.



Stonger Hexagon Honeycomb Modules

Robust PP tube settler modules can be easily supported with minimal structures that often incorporate effluent troughs and baffles.

Save Assembled Labour easy on the site

AquaSust UV Tube Settlers can be easy assembled on and there is only need two workers in 6 hours to finished 100CBM into settler block. And a small amount of loose pieces are reserved for installation use later.



Save Assembled Tooling Cost

AquaSust offer the assembled technology and the plastic welded gun and tecnogy for UV Tube Settlers assembled. To make sure every block was assembled rightly .



Economical and Simple SUPPORTS Shelves

AquaSust offers technology and drawing of the tube support shelves. It is simple and stronger support system, economical system.



Quickly install into the tank

Assemble the UV Tube Settlers blocks from left to right on the upper part of the Sheft Support. Keep the Angle of 60° unchanged all the time, each unit should be properly pressed when assembling sequentially. If the size is not exactly appropriate when assembling to the right side, it is necessary to use loose UV Tube Settlers according to the size and then assemble until it is all in place.

There is about two workers can installed 200 CBM in a working day.

Fixed AquaSust UV Tube Settlers easily

After the UV Tube Settlers installed, the density of the material is 0.92g/cm³, it will be floating before in a first few days, so we need fixed the UV Tube Settlers by stainless steel ropes or Nylon ropes.



Robust in operation and maintenance

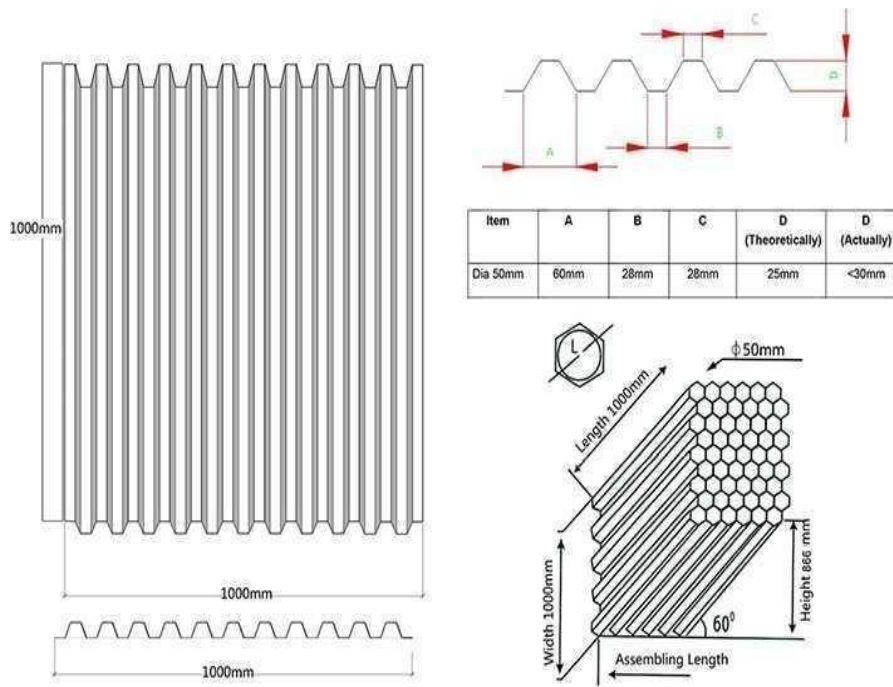
After the UV Tube Settlers installed, Don't need do anything, it is stable and easy operation daily.



Longer Service Life

AquaSust UV Tube Settlers can be used under the water for 5 to 10 years, if there is no straight sunlight, it can be longer life.

Aquasust UV Tube Settlers Detail Sheet

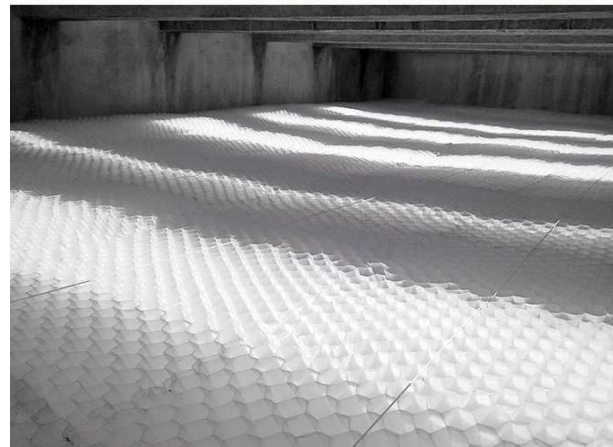


Material:	100% New PP with UV protector
Applications:	WTP/WWTP
Color:	Blue Color
Molding method:	Electric soldering iron
Installation angle:	60°
Service life:	5 to 10 years
Usage frequency:	Commonly used
Operating temperature:	-10~70°C
Proportion g/cm3:	0.92
Features:	Flexible and easy to float
Produce way:	Factory prefab
Standard packaging:	Packing strap/wooden box
Special specifications:	Customer-defined

AquaSust Hexagon Honeycomb UV Tube Settlers Advantage (compare to other kind of locked or glued Settlers)

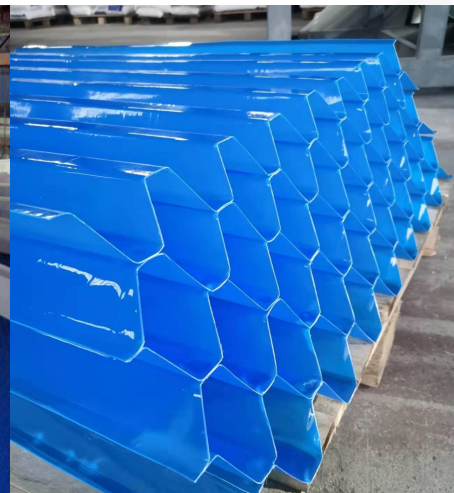
1. Resistant to impact
2. Resistant to sun light with UV Protector
3. Dust and germs proof
4. Made from premium material meeting high quality requirements
(The Highest quality UV Tube Settlers In China)
5. Shipped by sheets, save the freight of transporting
6. Store with Pallets, Save the cost and place of the store
7. Easy welded into block on site
8. Easy install into Sedimentation Tank (save the the cost and labour for Assemble
9. Longer Serive Life for 5 to 10 years
10. AquaSust Offer the Four Guarantee for the quality control
11. Worldwide delivery thanks to easy and reliable on-site module-assembly
12. Friedly materail can be drinking water.

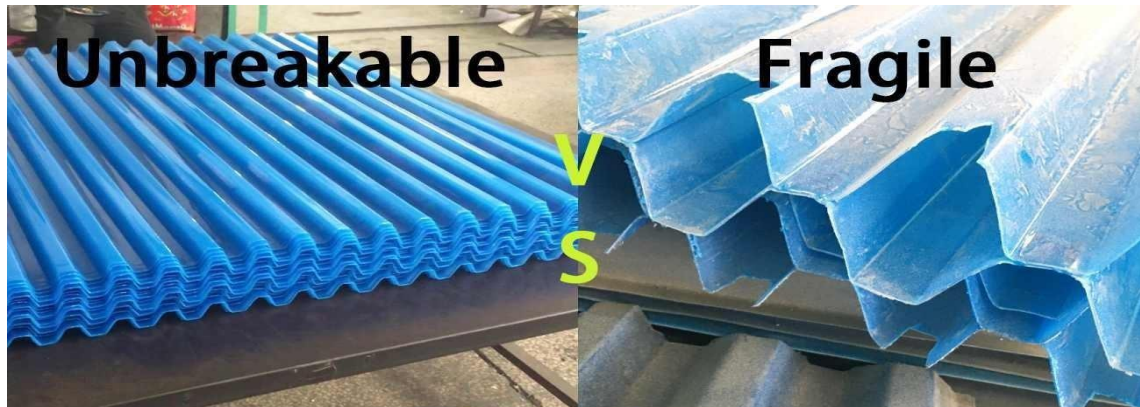
We have many national and international references (Used in municipal water treatment plants)



AquaSust UV Tube Settlers Advantage (comparing other items in China Market)

1. new PP Without any Recycle material
2. The cutting angle is neat and flat,making it the UV Tube Settlers more stable and firm
3. Packed in a black bag for UV protection
4. AquaSust Guarantee 100% thickness No sand holes or bubble holes in the sheet
5. Easy to weld, high strength, save labour cost
6. Glossy surface,high quality
7. Light Blue color,Make the water in settle tank more clear.
8. Easy maintenance





Aquasust TUBE SETTLER

LOW QUALITY TUBE SETTLER

AquaSust Tube settler compare to other UV Tube Settlers

Easy to weld on site, two workers can weld up to 50 CBM per day.	Needs to be locked on piece by piece, with a lot of labour on site
Hexagonal shape is more stable than other shapes	Not easy to replace
Small area, easy to de-clay	Higher cost
Very strong and long lasting + simplest support system	Not easy to install on site

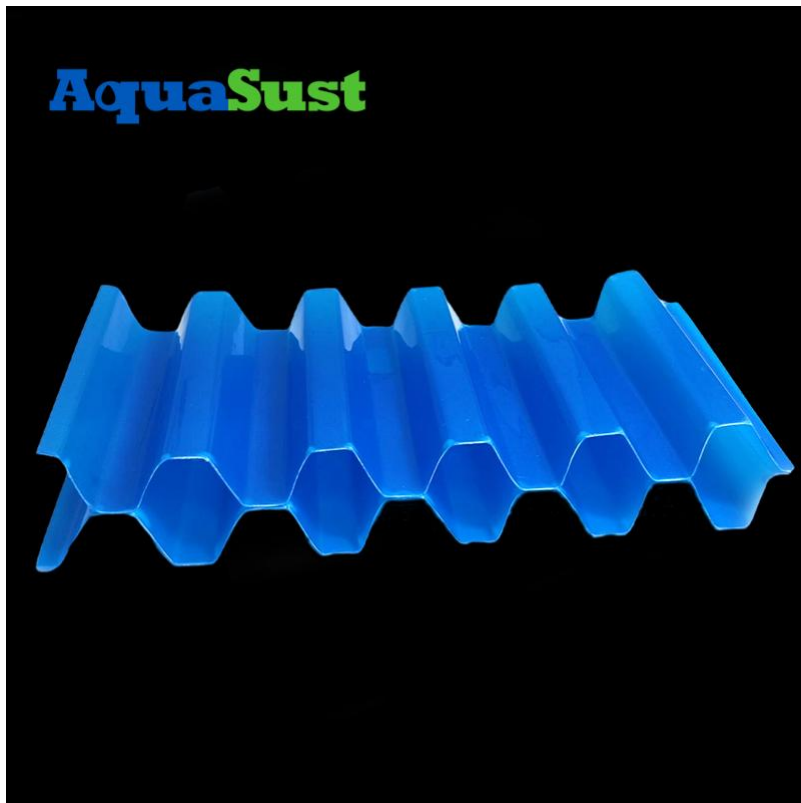
AquaSust UV Tube Settlers compare to others which from China market:

1. We use 100% Virgin PP
2. We use PP with UV protectors
3. We can use it for 5 to 10 years
4. Can be used for drinking water, with SGS certificate
5. Installation support and welding support
6. Stronger with wall thickness up to 1.0mm

Other UV Tube Settlers in China Market

1. Some filler will be added to the material
2. Only PP material, no UV
3. Serve only 3 to 5 years
4. No certificate, can not sure safe for drink water
5. Some have welded problem because not new or virgin material

Guarantee high quality UV Tube Settlers ,AquaSust also offer the design and install including the support design ,More contact us kate@AquaSustplastic.com



Name: TL25PP Diameter: 25 mm Wall thickness: 0.5mm Color : Blue or white

Material: 100% New PP with UV protector

Piece Per CBM: 42 piece

Resistance: UV, Chloride, Acid, Oil

Certificate: FDA standard with SGS certificate,

Fulfills all drinking water requirements like eg NSF, KTW, ACS, DWI 31

Gravity: 0.92g/cm³

Slope: 60°

Surface area: more than 120 m²/m³

Block size: 1m*1m*height(0.6m to 1.2m)

Continue operation temperature: 70 degree

Max operation temperature: 80 degree(short time)

Sedimentation Area: 12 m²/m³

Assembled: by plastic welded gun on site

Application: Carifier or Sedimentation for drink water, municipal and industrial waster water treatment

Service Life: 5 to 10 years

Very robust and longlasting + simplest support system

TP25PP Special size for WTP for Drink water treatment



TP35PP Special Size used in Municipal and Drink water treatment

Name: TL35PP Diameter: 35 mm

Color : Blue or white

Material: 100% New PP with UV protector

Piece Per CBM: 40 piece

Resistance : UV, Chloride, Acid, Oil

Certificate: FDA standard with SGS certificate,

Fulfills all drinking water requirements like eg NSF, KTW, ACS, DWI 31

Gravity: 0.92g/cm³ Slope: 60°

surface area: more than 105 m²/m³

Block size: 1m*1m*height(0.6m to 1.2m)

Continue operation temperature: 70 degree

Max operation temperature: 80 degree(short time)

Sedimentation Area: 10 m²/m³

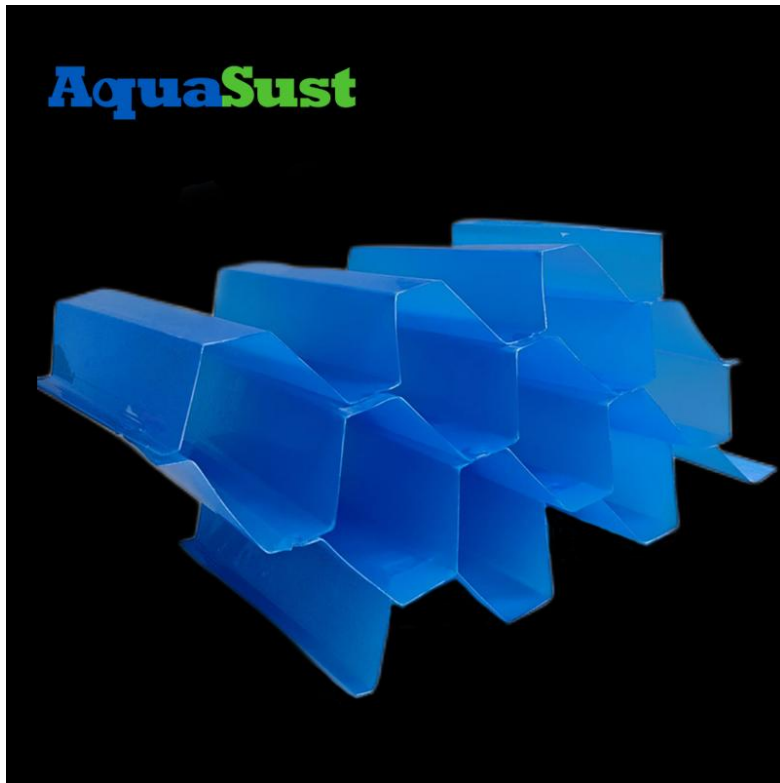
Assembled : by plastic welded gun on site

Application: Carifier or Sedimentation for drink water, municipal and industrial waster water treatment

Service Life: 5 to 10 years

Very robust and longlasting + simplest support system

Items No	TL35PP05	TL35PP07	TL35PP10
Wall Thickness	0.5mm	0.7mm	1.0mm



Name: TL50PP Diameter: 50 mm Color : Blue or white

Material: 100% New PP with UV protector

Piece Per CBM: 30 piece

Resistance : UV, Chloride, Acid, Oil

Certificate: FDA standard with SGS certificate,

Fulfills all drinking water requirements like eg NSF, KTW, ACS, DWI 31

Gravity: 0.92g/cm³ Slope: 60°

Surface area: more than 95 m²/m³

Block size: 1m*1m*height(0.6m to 1.2m)

Continue operation temperature: 70 degree

Max operation temperature: 80 degree(short time)

Sedimentation Area: 9m²/m³

Assembled : by plastic welded gun on site

Application: Carifier or Sedimentation for drink water, municipal and industrial waster water treatment

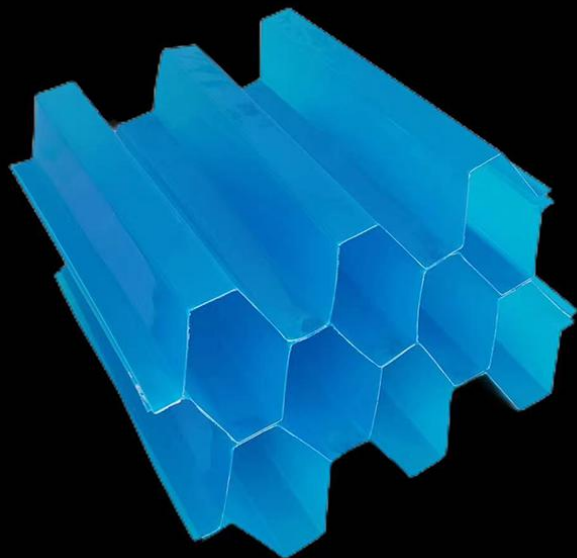
Service Life: 5 to 10 years

Very robust and longlasting + simplest support system

Items No	TL50PP05	TL50PP07	TL50PP10
Wall Thickness	0.5mm	0.7mm	1.0mm

TP50PP, This Size is fit for Indurstariand Municipal WWTP, it good use for most WTP and WWTP

AquaSust



Name: TL80PP Diameter: 80 mm

Color : Blue or white

Material: 100% New PP with UV protector

Piece Per CBM: 20 piece

Resistance : UV, Chloride, Acid, Oil

Certificate: FDA standard with SGS certificate,

Fulfills all drinking water requirements like eg NSF, KTW, ACS, DWI 31 Gravity:
0.92g/cm³ Slope: 60°

Surface area: more than 95 m²/m³

Block size: 1m*1m*height(0.6m to 1.2m)

Continue operation temperature: 70 degree

Max operation temperature: 80 degree(short time)

Sedimentation Area: 7m²/m³

Assembled : by plastic welded gun on site

Application: Carifier or Sedimentation for drink water, municipal and industrial
waster water treatment

Service Life: 5 to 10 years

Very robust and longlasting + simplest support system

Items No	TL80PP08	TL80PP10	TL80PP12
Wall Thickness	0.8mm	1.0mm	1.2mm

TP80PP Tube, This special big size is fit for Mine WWTP and other similar high and big SSL water

Welding Methods



How to perform the scalping operation of AquaSust UV Tube Settlers?

1. Open the packing of the tube settlers sheet, put the first sheet flat on the ground, take the second sheet on top of the first piece of filler, and check the incision of the block, **it must ensure 60 angles, and is hexagonal honeycomb**, after checking is correct, start to iron the bonding point;
2. In the hexagonal honeycomb at both ends of all the plane joints must be connected, both sides of the two pieces of plane seam requires frequency connection of **more than four points**, in the middle of the two pieces of slant sheet requires welding **more than four points**, to ensure that the welding solid;
3. Pay attention to the rhythm of operation when hot jointing, control the temperature, hot jointing points shall not be omitted;
4. Each block as a separate ironing unit, ironing completed in the **field -neatly stacked**;
5. Midway break must **cut off** the power supply of the soldering iron, and to be placed safely;

AquaSust offer UV Tube Settlers Sedimentation design and technology

Cut Methods



1. Heat the electric heating wire used for cutting

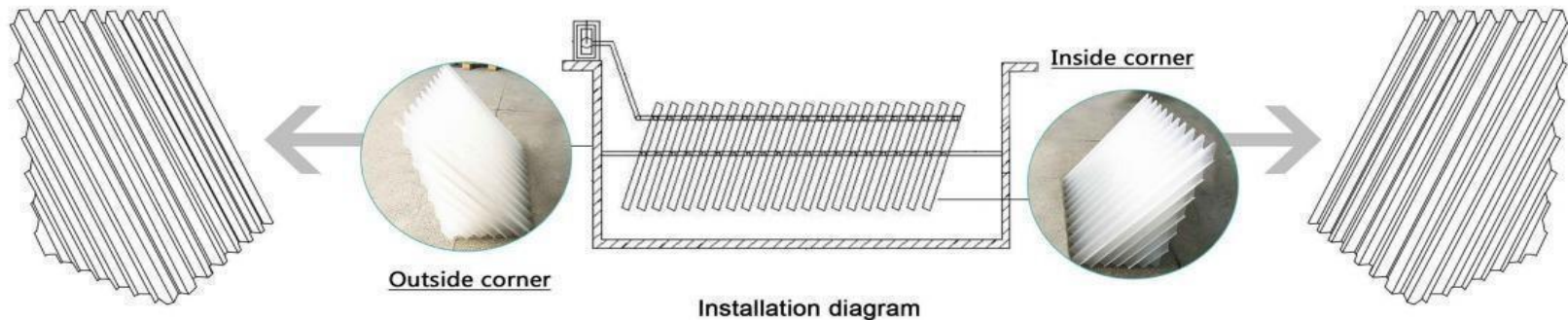


2. Use the Heating wire to cut the finished product along the diagonal



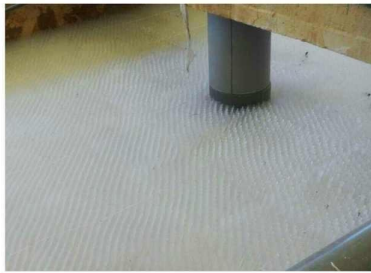
3. After cutting

Detail: Inside corner and outside corner display



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Installation Method ①



AquaSust UV Tube Settlers Highest Quality In China and AquaSust offer Four Guarantees for the Quality

Installation method of inclined UV tube Settlers:

1. Install mud discharge pipe at the bottom of the sedimentation tank

The installation sequence of the UV Tube Settlers sedimentation tank generally starts from the bottom, and the installation of the mud drainage pipe system at the bottom should be completed first. Ensure that the opening of the mud drainage pipe meets the design requirements and is fixed firmly, and check without error before entering the next installation process.

2. Complete the installation of settlers support

According to the construction drawing of packing support installation for the tube settler sedimentation tank, the settlers support should be installed in place first, check that all welding joints are firm and the strength of the support is enough to bear the weight of the Tube settlers, and complete anti-corrosion treatment on the surface of the support;

3. Complete the ironing of AquaSust UV Tube Settlers.

According to the ironing method of the UV Tube settlers, each one is packaged as a separate ironing unit. After the ironing of a unit is completed, it is 1m². After the ironing, it is stacked neatly on the field (a small amount of loose pieces are reserved for future use)

4. AquaSust UV Tube Settlers pool assembly

Assemble the scalded packing unit from left to right on the upper part of the Settlers Support.

Keep the Angle of 60° unchanged all the time, each unit should be properly pressed when assembling sequentially. If the size is not exactly appropriate when assembling to the right side, it is necessary to use loose sheet UV tube settlers according to the size and then assemble until it is all in place.

5. The upper part of the UV Tube Settlers is fixed

Since the proportion of UV tube settlers is 0.92, slightly less than water, after the UV tube settlers are assembled in place in the tank, 10mm round steel should be pulled above the packing from left to right for reinforcement (two round steel should pass through the upper part of each unit packing), and both ends of the round steel should be fixed reliably on the sedimentation tank wall. The installation of round steel can be very good to prevent the UV tube settlers in the early use of the possible loose floating phenomenon, round steel with epoxy coal asphalt anti-corrosion.

Example of treatment for Papermaking wastewater:

Address: No.3 Longwan Road, Development Zone
Ningde

Capacity: 10000m³/day Treatment process:
bio-treatment

Chemicals (pac+decolor+pam) Dosage: PAC
150mg/L decolor 150mg/L, PAM 1mg/L

Time: June 10th, 2020



The effectiveness is shown in the following table:

Index	COD(mg/L)	Chromaticity(Pt-Co)	PH	SS(mg/L)
Before treatment	550	800	8.0	200
After Treatment	230	30	7.6	40
Removal rate	58%	96%	---	80%

Example of treatment for Printing and dyeing wastewater:

Address: No. 286 Taixing Road, Economic and Technological Development Zone, Creek Town
Factory: one of Jiangsu dyeing factory (active dyes)
Capacity: 5000m³/day
Treatment process: bio-treatment-
Chemicals (pac+decolor+pam)
Dosage: PAC 150mg/L, decolor 200mg/L,
PAM 1.5mg/L
Time: April 15, 2019
Tube Settlers Item: TL50PP08



The effectiveness is shown in the following table:

Index	COD(mg/L)	Chromaticity(Pt-Co)	PH	SS(mg/L)
Before treatment	350	1500	7.8	80
After Treatment	120	35	7.5	30
Removal rate	66%	98%	---	63%

AQUASUST MBBR BIO MEDIA



MBBR37

Patent NO.:ZL2020
30141332.8



MBBR19

Patent NO.:ZL2020
30141332.8



MBBR61



MBBR64



MBBR08



MBBR05



MBBR06



MBBR04



MBBR40



MBBR19-2

AquaSust try to be the first and biggest supplier of MBBR media in China in two years with high speed production

AquaSust Main Water Treatment Plastic Parts

1. MBBR Media
2. UV Tube Settlers
3. MBR Membrane
4. Spong Bio Media
5. Smart Disc Diffuser
6. Smart Tube Diffuser
7. Dissolved Air Flotation
8. MBBR Mixing
9. Ro Antiscalant



MBBR Media
(Patent Certification)



Tube Settler



MBR Membrane



PU Bio Media



Disc Diffuser



Tube Diffuser



Ro Water Plant



MBBR Mixing



Ro Antiscalant
(Patent Certification)



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