

Bio Als series

***Microbial waste water
treatment unit***

A Atmospheric
L Life
Σ Science
i industry
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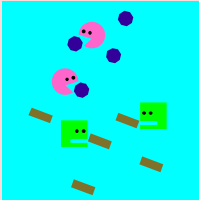
Ultimate microbial treatment system

~ Bio Alsi series ~

◆ Characteristics

(1) Can decompose many kinds of persistent organic matter by aerobic and anaerobic microbe. And many kinds of water can be treated.

- Sugar manufacturing waste water
- Processed marine products waste water
- Machining process waste liquid
- Water soluble cutting oil
- Die-casting
- ED waste water
- Car painting waste water....



(2) Sludge is changed to gas.

Waste water → Coagulating sedimentation
Coagulating floatation
Sandfilter process
Activated carbon process
Membrane process → Clean water + Sludge

Waste water → Microbial treatment (Bio Alsi process) → Clean water + CO₂ + H₂O

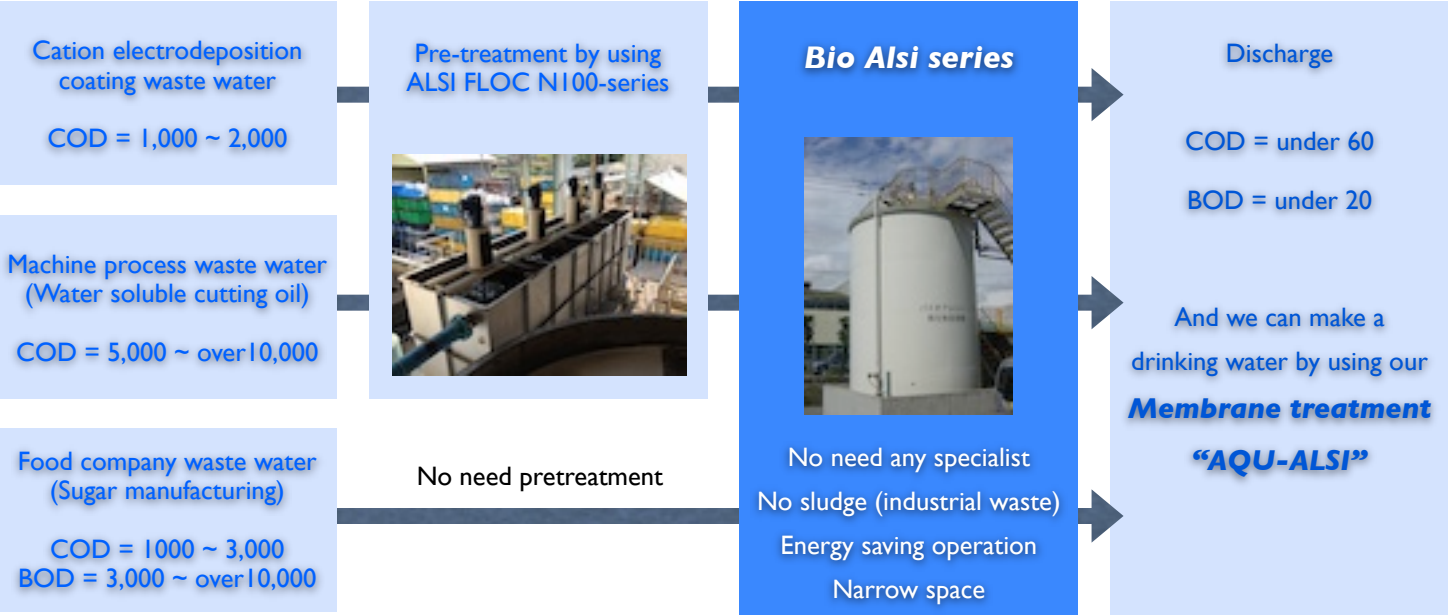
(3) Design is so simple and easy to maintenance

“Bio Alsi system” use little equipments
(only some agitators, blowers, pumps)
so maintenance is easy and never break.

(4) Comparison between Bio Alsi system and other process.

| Bio Alsi process | Other physicochemical process |
|--------------------------------|-------------------------------|
| Unattended Automatic operation | Attended Manual operation |
| No sludge | Many sludge |
| No chemical | Many consumption chemicals |
| Little wastage | Many wastage |

◆ Introduction Examples



| Model | Treatment amount [m ³ /Day] | Size [m] | | Electric [kW] | Weight [t] |
|-------|--|----------|--------|---------------|------------|
| | | Diameter | Height | | |
| BA-02 | 30 | 2 | 6 | 4 | 8 |
| BA-04 | 120 | 4 | 7 | 6 | 10 |
| BA-06 | 200 | 6 | 7 | 8 | 20 |
| BA-08 | 300 | 8 | 7 | 10 | 25 |
| BA-10 | 600 | 10 | 8 | 15 | 36 |
| BA-12 | 1,000 | 12 | 8 | 22 | 50 |
| BA-14 | 1,500 | 14 | 8 | 28 | 65 |
| BA-16 | 2,500 | 16 | 8 | 35 | 80 |
| BA-18 | 4,000 | 18 | 9 | 47 | 110 |

※The material is basically SS400 & SUS304 but can change to all SUS , concrete & SUS304. In this case, price would change. (Please feel free to confirm about it.)

※Size is calculated by load of waste water is swage treatment plant.