

AQUA SEPTIC BIOFILM (ST-BF)

Cost effective treatment system



URBAN STP

Engineered Onsite Treatment



Fluidized Moving Bed

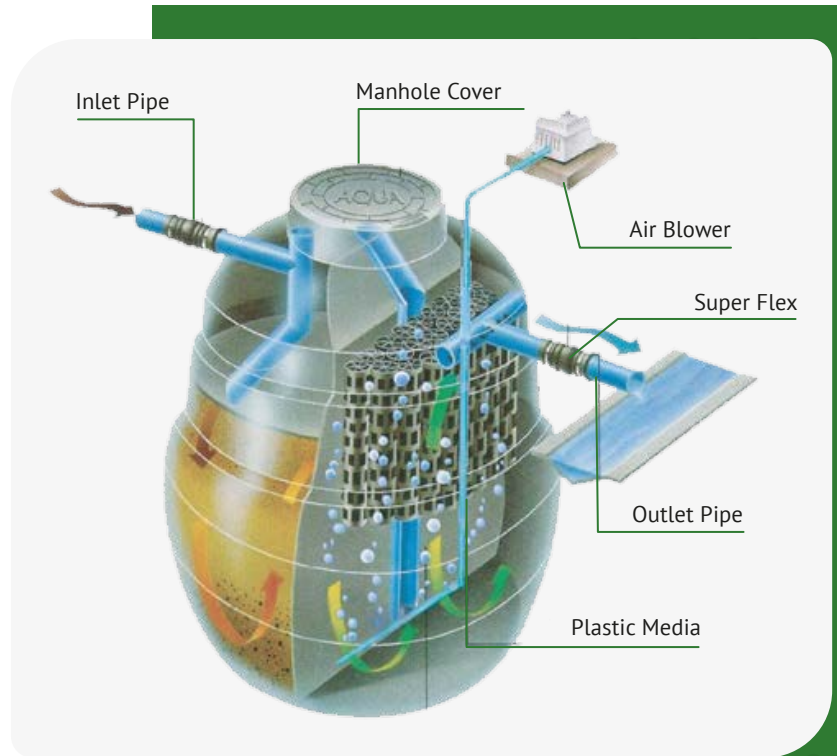
The media bed is fluidized. Old microbial cells slough out and new and active cells grow up.



Enhanced Treatment Efficiency



Certified by ISO 9001

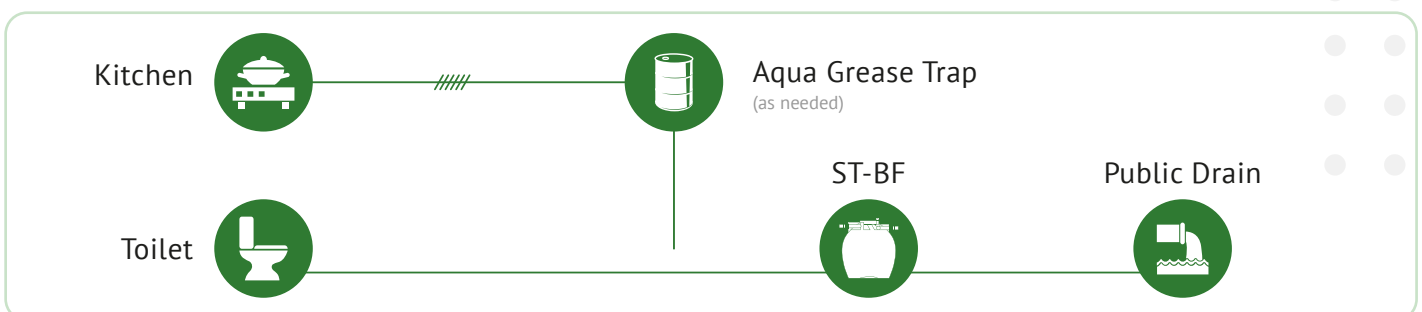


Banka BioLoo is a pioneer in wastewater management across a wide variety of residential, commercial, and government use cases. Banka BioLoo has partnered with Aqua Nishihara Corporation to empower the Indian market with the Johkasou Wastewater Treatment Technology. Developed and used in Japan for over four decades, Johkasou which means “Purifying Tank” is a decentralized, wastewater treatment system.

AQUA SEPTIC BIOFILM is effective and efficient wastewater treatment system which also reduces odor and reduces effluent Biochemical Oxygen Demand (BOD).

AQUA SEPTIC BIOFILM uses aerobic treatment process. Wastewater from all activities first flows into the septic zone where solid wastes and wastewater is separated. Once the solid separation zone is complete, only the supernatant flows into the secondary treatment process which is aerobic treatment. In the aerobic treatment process, the microbial cells create a biofilm on each plastic media as a colony and help digest wastewater to meet the effluent standards.

Process



Polyethylene (PE) Tank Body

The type of PE is Linear Low-Density Type Medium Density (LLDPE). The tank is tested and approved through standardized tests like Vacuum test and Loading test to withstand soil pressure.

Super Flex

Protects pipe from cracking caused by land subsidence (License of AQUA). It is specially designed to protect the pipe joint to the tank and is a set with the system. This product is protected under Petty Patent No.4285 dated June 17, 2008.

Plastic Media

Is made from Polyethylene (PE) designed for durability, anti-clogging, and for micro-bacteria organisms to attach on surface areas of the media.

Air Blower

A selection of the best diaphragm air blower for easy installation, easy maintenance, and efficient energy saving. Noise pollution is low as 40-50dB(A). Product life span is approximately 20,000 hours.

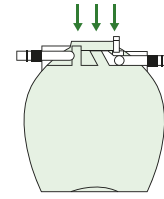
ABS cover

Is an engineered plastic that is long-lasting, light-weight, and very durable in all weather and environmental conditions.



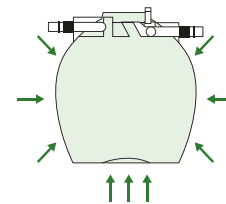
Load Tested

Passed the compressive strength of 1,200 kg/m²



Vacuum Tested

Passed the vacuum test for external pressure of 60-70 mbar



| POPULATION | | | | | |
|-------------|--------------------------|----------------------|-------------------------|-------------------------|-----------------------------|
| Model | Residential | | Office | School / University | Peak Volume (litre per day) |
| | Soil & Waste 150 lpcd | Soil Only 50 lpcd | Soil & Waste 80 lpcd | Soil & Waste 80 lpcd | |
| ST - 1200BF | 4 | 12 | 8 | 8 | 600 |
| ST - 1600BF | 7 | 20 | 13 | 13 | 1000 |
| ST - 1800BF | 8 | 24 | 15 | 15 | 1200 |
| ST - 2000BF | 9 | 28 | 18 | 18 | 1400 |
| ST - 3000BF | 11 | 32 | 20 | 20 | 1600 |
| ST - 4000BF | 13 | 40 | 25 | 25 | 2000 |
| ST - 5000BF | 20 | 60 | 38 | 38 | 3000 |
| ST - 6000BF | 27 | 80 | 50 | 50 | 4000 |

| Model | Dimensions | | | | | Air Blower | | Effective Volume (litre) | Septic Zone (litre) | Fixed Film Aeration (litre) |
|-------------|----------------|--------------|-------------------------|---------------------|-----------------------|------------------|--------------------------|--------------------------|---------------------|-----------------------------|
| | Diameter (mm.) | Height (mm.) | Inlet Outlet Pipe (mm.) | Air Vent Pipe (mm.) | Air Blower Pipe (mm.) | Air Flow (l/min) | Power Consumption (watt) | | | |
| ST - 1200BF | 1315 | 1400 | 1315 | 50 | 25 | 28 | 28 | 1200 | 790 | 410 |
| ST - 1600BF | 1390 | 1545 | 1390 | 50 | 25 | 28 | 28 | 1600 | 1050 | 550 |
| ST - 1800BF | 1510 | 1635 | 1510 | 50 | 25 | 45 | 45 | 1800 | 1200 | 600 |
| ST - 2000BF | 1550 | 1650 | 1550 | 50 | 25 | 45 | 45 | 2000 | 1300 | 700 |
| ST - 3000BF | 1760 | 2030 | 1760 | 50 | 25 | 60 | 60 | 3000 | 1950 | 1050 |
| ST - 4000BF | 1910 | 2150 | 1910 | 50 | 25 | 80 | 80 | 4000 | 2700 | 1300 |
| ST - 5000BF | 2030 | 2325 | 2030 | 50 | 25 | 120 | 120 | 5000 | 3350 | 1650 |
| ST - 6000BF | 2175 | 2480 | 2175 | 50 | 25 | 150 | 150 | 6000 | 4000 | 2000 |

