

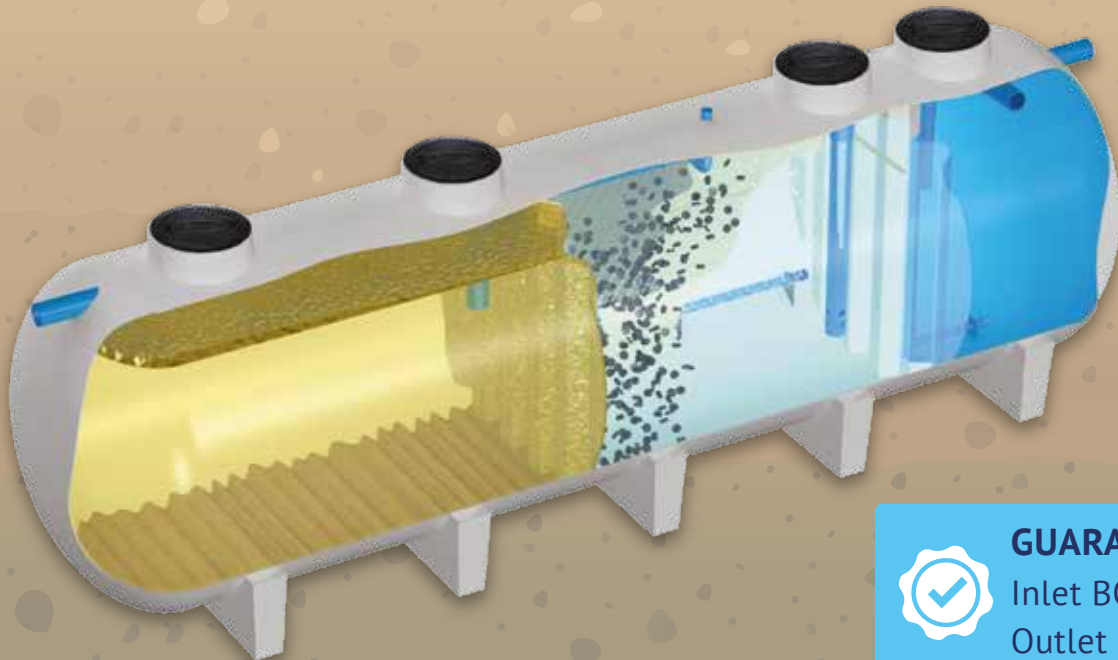
AQUA NBF SYSTEM

Modern bio treatment technology for modern lifestyle



URBAN STP

Engineered Onsite Treatment



GUARANTEE

Inlet BOD 250 mg/l
Outlet BOD 20 mg/l

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.

Best Solution for -



Small/Medium
Municipalities



Factory



School & University



Hotel



Shopping Complex

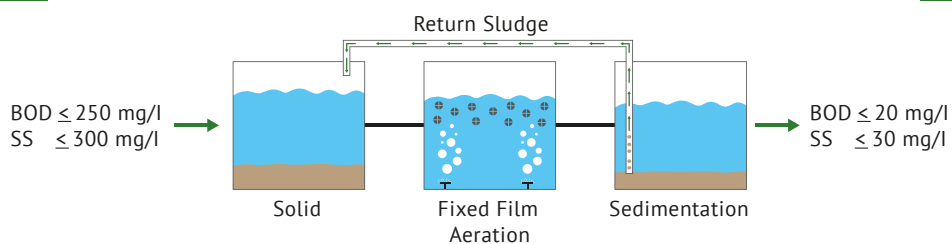
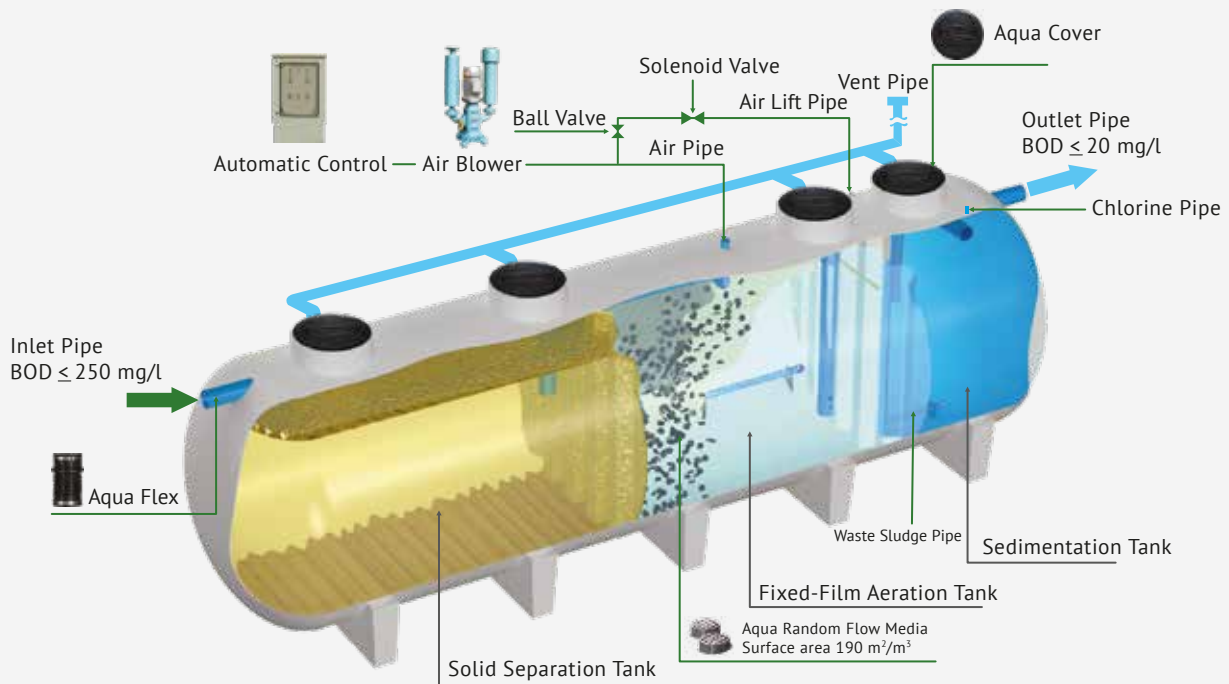


Office Building

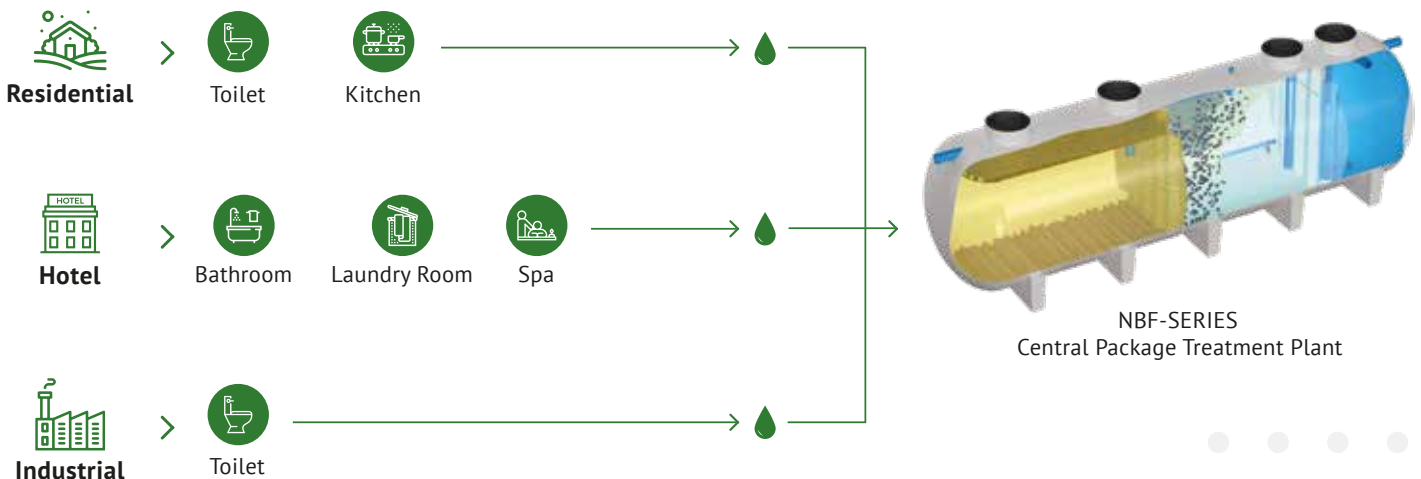
Aqua NBF Series

The compact solution for sewage treatment plant

The **AQUA- NBF SERIES** sewage treatment system offers sewage and wastewater treatment for the average flowrate 10 - 200 cum/day. The sewage treatment system is a package plant containing solid separation, fixed film aeration, biological treatment and final sedimentation. It is suitable for varied applications. The tank is made from Fiberglass Reinforced Plastic (FRP) and can be installed below or above ground.



Process



System Components

Stage 1: Solid Separation Chamber

A solid separation tank is the first treatment step by separating solid and digest some of the organic matter. Inside this septic tank, anaerobic digestion occurs and solid will settle at the bottom of the tank. The tank is designed to hold sludge that be returned from this sedimentation tank. The volume of this section is designed to have enough capacity to accumulate sludge and provide efficient treatment.



Stage 2: Fixed-Film Aeration Chamber

The Fixed-Film Aeration system is one of the most appropriate aeration treatments. The plastic media inside this chamber works as a house for a very active digesting microorganism. The BOD will be removed with high efficiency and high stability including some of the shock load that may flow into the system.

Stage 3: Sedimentation Chamber

The treated wastewater from Fixed-Film Aeration tank together with some of the bio-sludge flows into a sedimentation tank. This unit is designed to have enough surface area and suitable for settling down the bio-sludge and only the clear water flow out to the outlet pipe. The sediment sludge will be suctioned by using an air-lift pump to store at the solid separation tank to ensure that only clear treated water is discharged.

Features and Benefits of the AQUA-NBF SERIES

Low running cost and maintenance

The plant requires minimal maintenance. Only a small excavation work is required due to its compact design.

Many applications

Can be customized to your requirements to offer environment-friendly solutions.

Reliable

Robust operation and highly reliable, regulation-compliant performance.

Variable flows and loads

The unique design can cope with variable flows and loads making it ideal for multiple use cases such as schools, construction sites, etc.

Minimal visual impact

Does not impede views due to the below-ground installation.

Simple tank operations

Humus and primary sludge are stored in one place for simple tank operation.

Specifications

AQUA Neo System NBF - Series Technical Data

Model		NBF-10	NBF-15	NBF-20	NBF-25	NBF-30	NBF-35	NBF-40	NBF-45	NBF-50
Flow Rate(m ³ /d)		10	15	20	25	30	35	40	45	50
Population	Residential / Hotel (150 lpcd)	67	100	133	167	200	233	267	300	333
	Factory (80 lpcd)	125	187	250	312	375	437	500	562	625
	Office (80 lpcd)	125	187	250	312	375	437	500	562	625
	School (80 lpcd)	125	187	250	312	375	437	500	562	625

AQUA Neo System NBF - Series Technical Data

Model		NBF-60	NBF-70	NBF-80	NBF-90	NBF-100	NBF-120	NBF-140	NBF-160	NBF-180	NBF-200
Flow Rate(m ³ /d)		60	70	80	90	100	120	140	160	180	200
Population	Residential / Hotel (150 lpcd)	400	467	533	600	667	800	933	1067	1200	1333
	Factory (80 lpcd)	750	875	1000	1125	1250	1500	1750	2000	2250	2500
	Office (80 lpcd)	750	875	1000	1125	1250	1500	1750	2000	2250	2500
	School (80 lpcd)	750	875	1000	1125	1250	1500	1750	2000	2250	2500

