

PACKAGE SEWAGE TREATMENT PLANTS

World over there is now recognition that decentralized wastewater treatment is a better investment, energy consumption alternative to a centralized wastewater treatment system from the angle of investment, energy consumption and efficiency. There are many areas within cities, towns and villages that are impossible to cover through centralized treatment system. It has, therefore, become imperative to employ decentralized treatment systems that take care of proper treatment and disposal of sewage.

In line with our innovative past, we now bring to you Sintex Package Sewage Treatment Plants that are compact and can be used in a decentralized manner anywhere for proper treatment. To give the best solution we have tied up with world leaders in this area - M/S. Aqua Nishihara Corporation, Japan.

Sintex Package Sewage Treatment Plants are based on anaerobic and aerobic process and are designed to have dual functions for efficient treatment of domestic wastewater from toilets, bathrooms, kitchens and washing area.

AVAILABLE IN TWO VARIANTS

- 1** Series NBF for medium and large applications like High Rise Residential Apartments, Commercial Complexes, Super Mall, Hospitals, Hostels, Universities, Schools, Large Office Buildings, Factories, Institutions etc.
- 2** Series PWTS-STBF for domestic and commercial applications such as Individual Houses, Low Rise Residential Apartments, Villas, Bungalows, Row Houses, Dhabas, Restaurants, Canteens, Offices, Small Factories, etc.

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ADVANTAGES



ZERO FOOTPRINT



100% ECO FRIENDLY



LEAK PROOF



LIGHT WEIGHT



RUST PROOF



DURABLE



EASY TO INSTALL

- Excellent performance through massive reduction of BOD
- Sludge handling once in 12-18 months

OPERATION PRINCIPLE

1 Solid Separation Zone (Anarobic Zone)

First stage transforms the influent solids to settled solids while allowing scum to float on the surface. It is a primary sedimentation zone in which settled sludge is stabilized by anaerobic digestion. The treatment efficiency of the chamber is in the range of 30% BOD removal.

2 Aeration Zone (Aerobla Zone)

Second stage is the aerobic zone along with plastic media inside the tank which in turn increases the surface area and retains micro-organism long enough to digest the organic substance. Clear water overflows to the next treatment chamber. Air is provided through blowers and higher contact time with the Bio-film on the plastic media facilitates efficient digestion. BOD removal is around 60%.

3 Final Sedimentation Zone

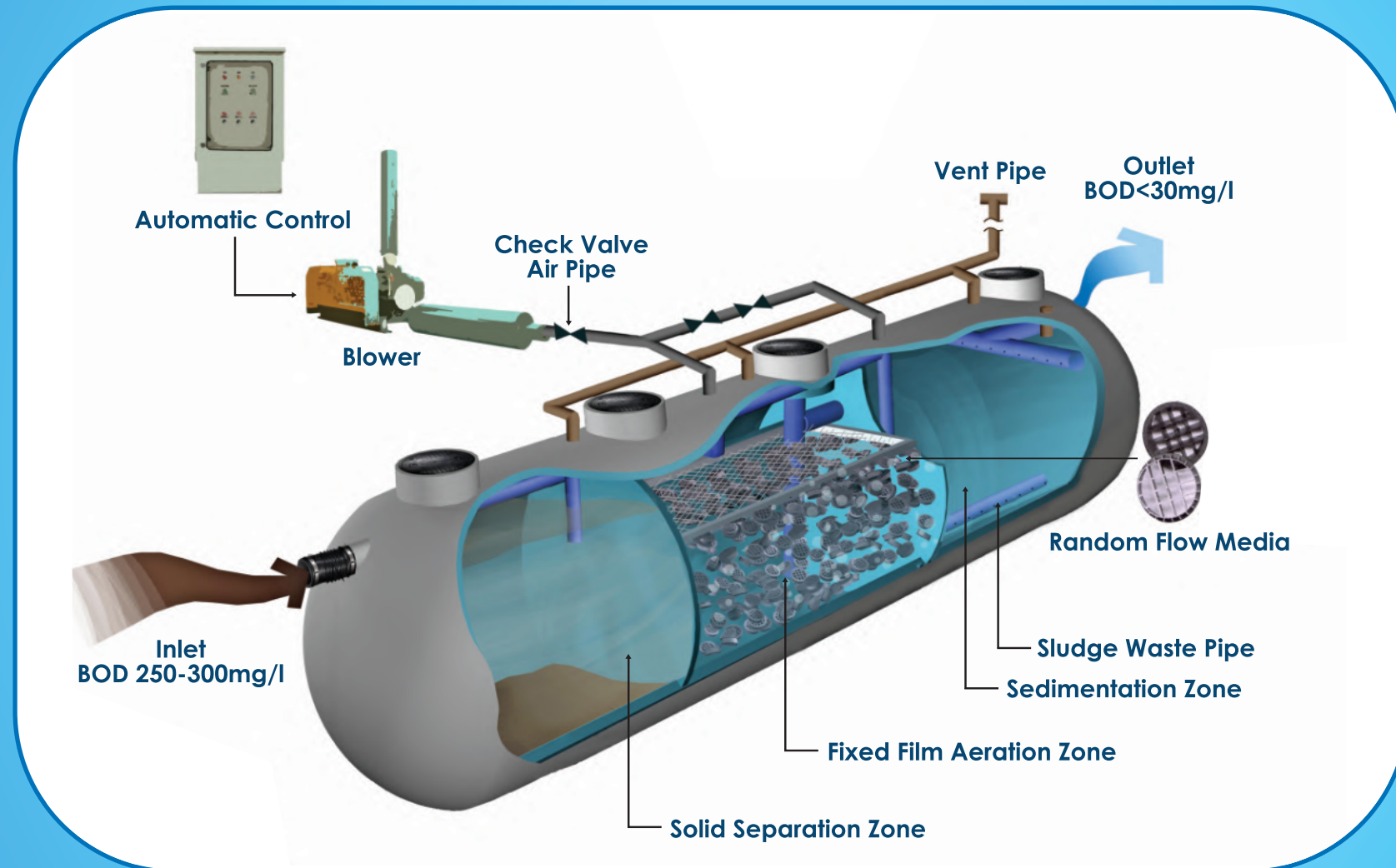
Final stage involves sedimentation where organic waste are settles in the sedimentation zone. The settled waste in the bottom is pumped back to the solid separation zone as a return sludge having active biomass (MLSS) to increase the efficiency of the system. The output from this zone is effluent that meets the stipulated PCB's Standards.

4 Optional

For more Stringent effluent parameter, we also offer Tertiary Treatment Plant (TTP) addition to the system which does the job of filtration that further improves effluent.

2

NBF SERIES FOR MEDIUM AND LARGE APPLICATIONS



APPLICATION AND USES

- Residential and Commercial Complexes
- Public Gardens and National Parks
- Hotels And Resorts
- Restaurants
- Industries
- Institutions
- Temples
- Government Offices
- Labour Quarters
- Townships
- Hostels
- Hospitals

RANGE & SPECIFICATIONS

Specification	Model																
	NBF-10	NBF-15	NBF-20	NBF-25	NBF-30	NBF-35	NBF-40	NBF-45	NBF-50	NBF-60	NBF-70	NBF-80	NBF-90	NBF-100	NBF-120	NBF-150	
No. of Users																	
Residential (150 lpcd)	67	100	133	167	200	223	267	300	333	400	467	533	600	667	800	1000	
Office (80 lpcd)	125	187	250	312	375	437	500	562	625	750	875	1000	1125	1250	1500	1875	
Toilet (50 lpcd)	200	300	400	500	600	700	800	900	1000	1200	1400	1600	1800	2000	2400	3000	
Educational Institutions (80 lpcd)	125	187	250	312	375	437	500	562	625	750	875	1000	1125	1250	1500	1875	

• LPCD: Litres per capita per day.



Step 1

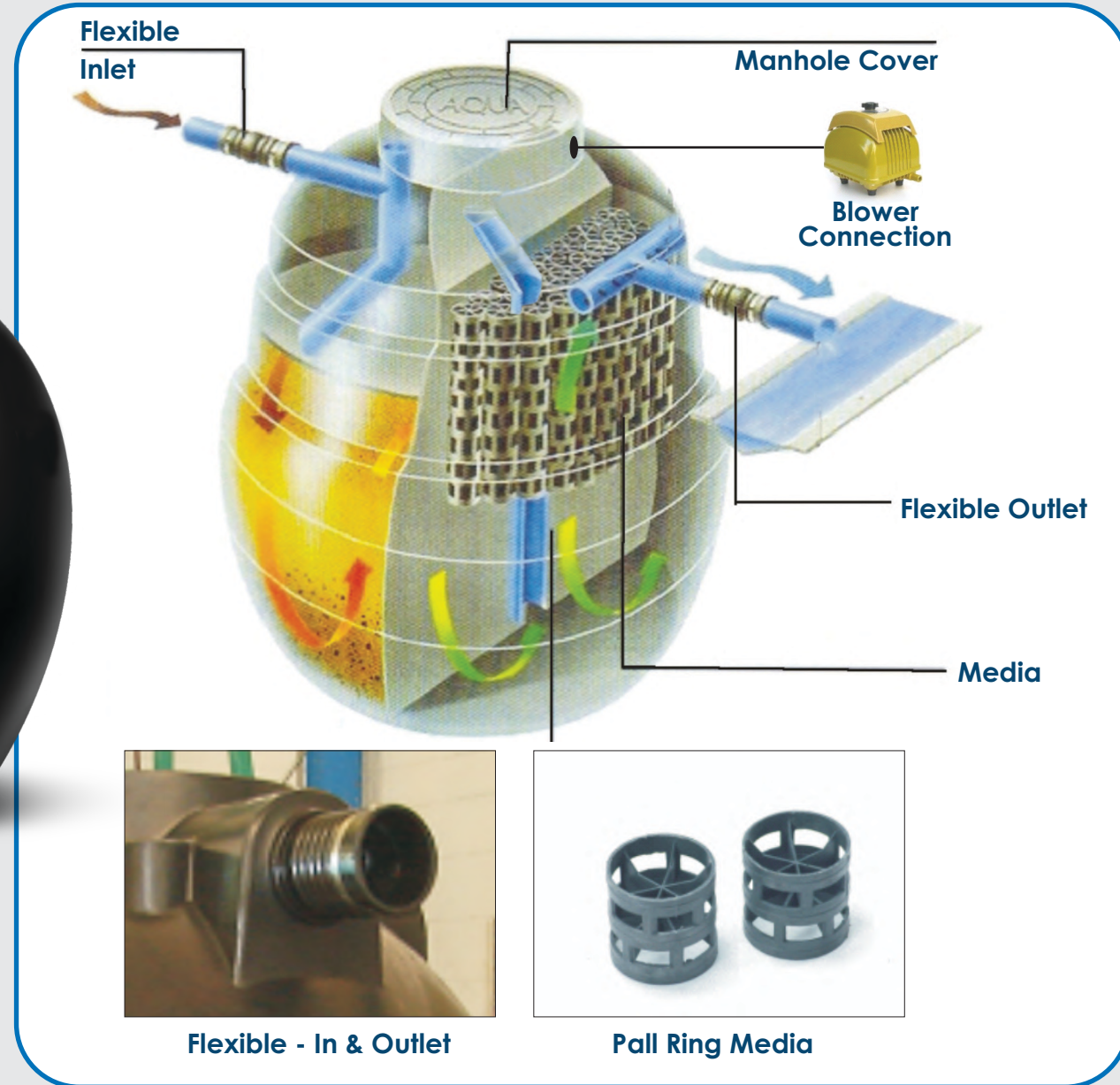


Step 2



Step 3

AEROBIC PWTS-STBF SERIES FOR DOMESTIC AND SEMI COMMERCIAL PLACES



For Community Individual Family

RANGE & SPECIFICATIONS

Model	Number of Users					Dimension			
	Residential (150 lpcd)	Office (80 lpcd)	Educational Institutions (80 lpcd)	Toilet (50 lpcd)	Canteen (20 lpcd)	Diameter (mm)	Height (mm)	Inlet/Outlet Pipe(mm)	Vent (mm)
PWTS-STBF-0120-01	6	8	8	16	30	1300	1400	100	50
PWTS-STBF-0160-01	10	13	13	22	50	1440	1560	100	50
PWTS-STBF-0180-01	12	15	15	24	60	1490	1615	100	50
PWTS-STBF-0200-01	14	18	18	28	70	1540	1640	100	50
PWTS-STBF-0300-01	16	23	23	46	80	1830	1880	100	50
PWTS-STBF-0400-01	20	26	26	52	100	1900	2020	100	50
PWTS-STBF-0500-01	24	33	33	66	120	1970	2280	100	50
PWTS-STBF-0600-01	32	40	40	80	160	2070	2330	100	50



Step 1



Step 2



Step 3

OUR VALUABLE CUSTOMERS

Government Sector



Real Estate

Industrial Sector



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