

WASTE WATER TREATMENT SYSTEMS

HydroBio is a compact wastewater treatment system designed for capacities ranging from 50 to 600 equivalent population. The system includes an aeration tank, clarifier, sludge storage tank, and associated equipment.

Wastewater entering the aeration tank undergoes biological treatment through aerobic microorganisms under extended aeration conditions. Oxygen required for the process is supplied by blowers and diffusers. In the clarifier, stabilized sludge settles while treated water undergoes chlorination before being discharged.

A portion of the settled sludge is recirculated to the aeration tank via an airlift pump to maintain process efficiency, while excess sludge is periodically transferred to the storage tank for stabilization. With an additional unit, treated water can be repurposed for irrigation.



USAGE AREAS
RESIDENTIAL AREAS AND MUNICIPALITIES
Small and medium-sized residential units
Villages, towns, and holiday resorts
Wastewater treatment plants operated by municipalities
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Small and medium-sized residential units
Villages, towns, and holiday resorts
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INDUSTRIAL FACILITIES
Food and beverage production plants
Textile and chemical industries
Metal processing and automotive sectors
Paper and pulp factories
COMMERCIAL FACILITIES
Hotels, holiday resorts, and campgrounds
Shopping malls, business centers, and large-scale housing projects
Hospitals and healthcare institutions
AGRICULTURE AND LIVESTOCK
Greenhouses and agricultural irrigation systems
Livestock farms and slaughterhouses
Waste recycling facilities for organic fertilizer production

BIO WASTEWATER SYSTEMS

Stock Code	Model	Equivalent One	Flow m ³ /day	Diameter mm.	Length mm.	Curb Weight
0-BiO-50	Hydro Bio-50	50	10	2000	2000	2500
0-BiO-100	Hydro Bio-100	100	20	2000	3500	3000
0-BiO-150	Hydro Bio-150	150	30	2000	5000	3000
0-BiO-200	Hydro Bio-200	200	40	2300	5800	3000
0-BiO-300	Hydro Bio-300	300	60	2300	8700	3000
0-BiO-400	Hydro Bio-400	400	80	2300	11600	3000
0-BiO-500	Hydro Bio-500	500	100	2300	12600	3000
0-BiO-600	Hydro Bio-600	600	120	2300	13500	3000
0-BiO-700	Hydro Bio-700	700	140	2300	13500	3000
0-BiO-800	Hydro Bio-800	800	160	2300	13500	3000
0-BiO-1000	Hydro Bio-1000	1000	200	2300	13500	3000



TECHNICAL SPECIFICATIONS

It is designed as SBR (Sequential Batch Reactor).

It has been developed with the aim of treating domestic waste water.

System includes basket screen, submersible lift pump, blower pump, diffuser and submersible discharge pump

Aeration, settling and discharge are carried out in the same reactor.

It is made of ST-37 Epoxy painted steel sheet.

It works in smart relay (Compact PLC) control.

It is prismatic type