

AZUD

WATERTECH

AZUD WATERTECH WW Wastewater treatment



Wastewater treatment plant AZUD WATERTECH WW, with MBBR (Moving Bed Bio Reactor) technology, to meet the environmental standards for discharge from urban and industrial wastewater.

AZUD WATERTECH WW solution

- ✓ MBBR wastewater technology, biologically stable against load and flow peaks and easy expandable with no need of civil works (only it is required to increase the carriers percentage in the biological reactor). The ratio treatment capacity/footprint is higher than a conventional system.
- ✓ Fully autonomous operation, ensuring the water quality and the maximum equipment protection. No need of qualified and permanent staff.
- ✓ Compact and modular plant, with simple and immediate installation and commissioning. Without civil works. Without setbacks.
- ✓ It is assembled in the plant, all the electromechanical and control equipment needed for the complete wastewater treatment.
- ✓ On surface installation, without complex diggings. Easy accessibility to all the elements of the system.



Industrial wastewater



Urban wastewater





AZUD WATERTECH WW
Wastewater treatment

Standard features

- Feed pump
- Rotatory dump screen
- MBBR biological treatment
 - Made of steel profiles and steel panels of 4mm width.
 - Internal polyester resin coating reinforced with glass fibre.
 - High and medium load biological reactors.
 - Lamellar decanter in PVC.
 - Plastic carriers (30% - 70% filled).
 - Multi-stage side channel blowers with silencer.
- Flocculant dosing for sludge decantation
- Pump for sludge drain
- Measurement and control equipment
 - Pressure switches; Inlet/Outlet and Max/Min.
 - Digital pressure transmitters and digital flow meters.
- Electrical panel and automation and control system
 - Electric circuit breakers, motor starters, relays, etc.
 - PLC and HMI providing full automatic control.
- Framework, piping and electric connections. Testing
 - Pipes, accessories and valves for hydraulic line.
 - Electrical connections equipment-electrical panel.
 - Hydraulic and electric bench testing.

Standard plant models:

Model AZUD WATERTECH WW	Maximum flow (m ³ /d gpd)	P.E.	Dimensions (m) Largo x Ancho x Alto	Power installation KW
MBBR 10L	12,0 2.640,0	60	3,20 X 2,13 X 2,06	2,30
MBBR 10M	24,0 5.280,0	120	3,20 X 2,13 X 2,06	2,59
MBBR 10H	32,0 7.040,0	160	3,20 X 2,13 X 2,06	2,59
MBBR 20L	25,0 5.500,0	125	5,75 X 2,13 X 2,06	2,59
MBBR 20M	50,0 11.000,0	250	5,75 X 2,13 X 2,06	3,69
MBBR 20H	70,0 15.400,0	350	5,75 X 2,13 X 2,06	4,49
MBBR 40L	65,0 14.300,0	325	11,85 X 2,13 X 2,06	5,04
MBBR 40M	130,0 28.600,0	650	11,85 X 2,13 X 2,06	6,34
MBBR 40H	170,0 37.400,0	850	11,85 X 2,13 X 2,06	6,34
MBBR 40HCL	175,0 16.500,0	375	11,85 X 2,13 X 2,26	5,04
MBBR 40HCM	150,0 33.000,0	750	11,85 X 2,13 X 2,26	6,34
MBBR 40HCH	200,0 44.000,0	1000	11,85 X 2,13 X 2,26	6,34