

OUR PARTNERSHIP:



FAB Media



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FAB Media

MBBR

At MM Aqua Technologies, we design and manufacture and supply Moving Bed Bio Reactor (MBBR) Fluidized Aerated Bed Reactor (FAB) media for Municipal & industrial wastewater treatment.

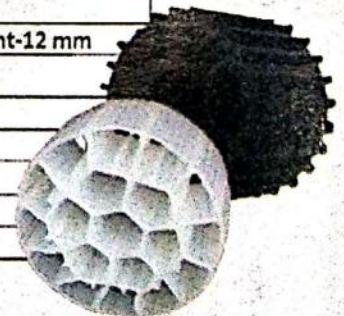
Process principal:

The waste water goes through the suspending media of MBBR reactor, form the biological membrane on the surface of the media gradually, with the action of the microbial on the biological membrane, the waste water is purified. The media can move freely in the reactor with the mixing of the water; for the aerobic reactor, the aeration will make the media move; for the anaerobic reactor, mechanic mixing will make the media move. Our MBBR media is new-developed media for the MBBR process, has better treatment effect compared to traditional media.

Excess biomass sloughs off from the media and is washed out of the process with the treated effluent. Several process combinations have been realized in upgrading activated sludge treatment plants. The existing tanks can be either retrofitted to MBBR tanks or they are preceded by a so-called roughing MBBR reactor. However, it is also possible to realize hybrid solutions using the bio film carriers in the existing tanks without any retrofitting. When a pure MBBR process is employed, a typical overall treatment design consists of pre-treatment (screening) followed by one or more MBBR tanks, where the degradation processes of soluble matter take place. The final stage of the treatment is normally the particle separation.

Technical Specification:

Sr. No.	Features	Unit	Fab Media	
			Fab Media (M1)	Fab Media (M2)
1	Type	-----	Fab Media (M1)	Fab Media (M2)
2	Size	MM	Dia- 24.5mm , Height-19.8 mm	Dia- 25 mm , Height-12 mm
3	Surface Area	M ² /m ³	400	500
4	PSA/TSA	%	70	90
5	Holes Number	Nos	7	19
6	Nos of Pieces	Pieces/M ³	61760	86926
7	Material	-----	PP	PE
8	Density	g/cc	0.95-.96	0.92-.96



FEATURES:

1. Very high efficiency in BOD/COD removal and in Nitrification
2. Provides a large specific surface for bacteria culture
3. Very low footprint area of reactor
4. Excellent tolerance to load variations and toxicity
5. Low Capital Investment
6. Low installation, maintenance & operation cost
7. Sludge bulking problem is nullified & recirculation is not required
8. Higher Biomass concentration
9. Simple process, less mechanical equipment
10. Invest once and replacement NIL

Applications:

Municipal Sewage Treatment Plant ,Numerous applications in various types of Industrial Effluent Treatment viz. Leather, Textile, Paper and Pulp, Dairy, Food Processing, Slaughter houses, Breweries, Sugar industries, etc.

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