

MBBR: Moving Bed Biofilm Reactor

MBBR Bio Filter Media is used in Integrated Fixed-Im Activated Sludge (IFAS) and Moving Bed Biofilm Reactor (MBBR) system.

The wastewater goes through suspending media of MBBR reactor forming a biological membrane on the surface of media gradually. With the action of microbial on the biological membrane, wastewater is purified. MBBR 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, has better treatment effect compared with traditional media.



Model		2903	2904	2905
Size	mm	25φx15	15φx15	25φx4
Hole Nos.	/	8	8	64
Surface area	m^2/m^3	650	>900	>1200
Density	gm/cm^3	0.96-0.98	0.94-0.97	0.94-0.97
Porosity	%	>85	>85	>85
Dosing ratio	%	15-65	15-65	15-65
Bio film forming time	days	3--15	3--15	3--15
Nitrification efficiency	$gNH_4-n/m^3.d$	400-1200	400-1400	500-1400
BOD5 oxidation efficiency	$gBOD_5/m^3.d$	2000-10000	2500-15000	2500-20000
COD oxidation efficiency	$gCOD/m^3.d$	2000-15000	2500-20000	2500-20000
Applicable temperture	°C	5--60	5--60	5--60
Service life	year	>15	>15	>15
Material	/	MOC-100% White virgin HDPE	MOC-100% White virgin HDPE	MOC-100% White virgin HDPE

