

BioCoir®

Coconut Fiber Biofilter

Treatment Performance

Parameters	Typical Values
BOD ₅	≤10 to ≤30 mg/l
TSS	≤10 to ≤30 mg/l
Total Nitrogen	≤20 mg/l

1. Collection

Sewage flows from the home or facility into a watertight primary tank or chamber. The solids settle and the liquid effluent flows by gravity through an effluent filter to the system.

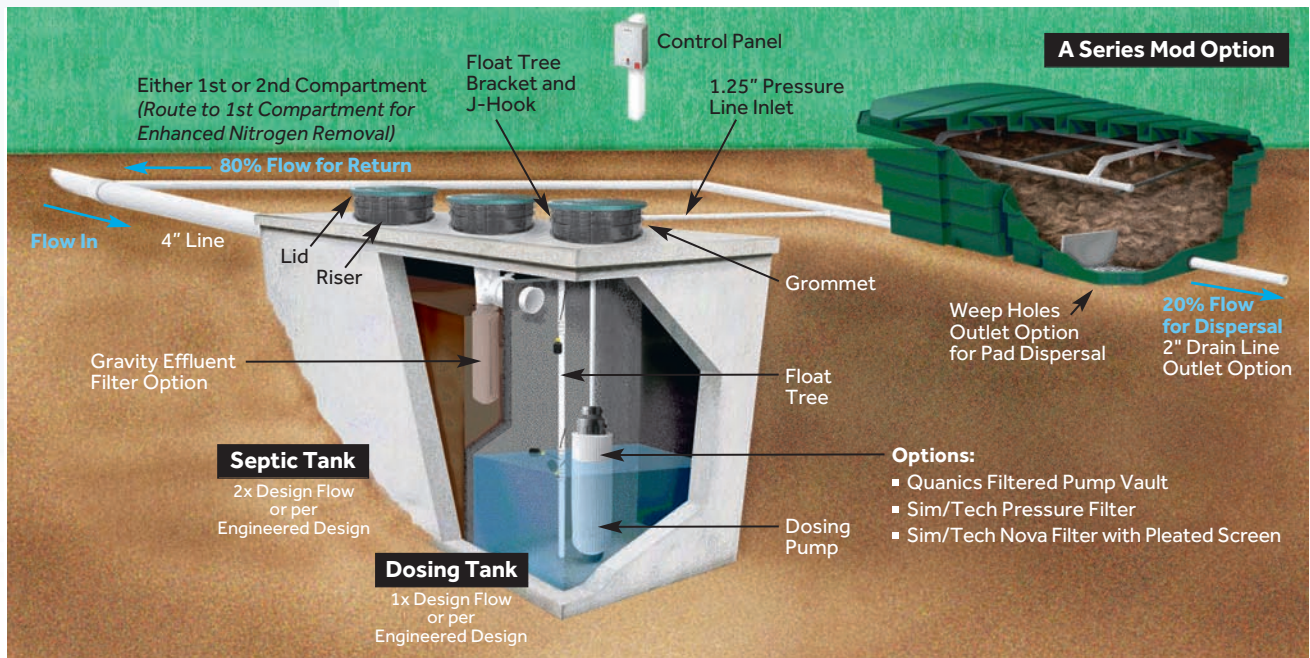
2. Treatment

The BioCoir Recirculating Media Filter provides biochemical treatment through passive biofiltration principles. The coconut fiber (coir) is uniform and provides ample surface area for biological growth. The media contains many voids to accommodate optimum air flow and water flow. Pretreated effluent is sprayed over the coconut fiber media using specially designed helical spray nozzles that provides even distribution over the entire surface area within the mod. Treated effluent is recirculated multiple times which optimizes treatment.



3. Dispersal

The highly treated effluent exits the 20% side of the mod and flows into a gravity drainfield or into a pump chamber for dosing LPP, drip irrigation, or other pressurized drainfields.



A Models

Model Number	Flow (GPD)	BOD Loading (LBS/D)		Bedrooms	Tank Nominal Size (Gal)
		Typical	Peak		
Q-ATS-A400-80/20-BC	400	1	2	3	1200
Q-ATS-A400-2-80/20-BC	600	1.5	3	4 to 5	1800
Q-ATS-A400-2-80/20-BC	800	2	4	6	2400
Q-ATS-A400-3-80/20-BC	1000	2.5	5	7 to 8	3000
Q-ATS-A400-3-80/20-BC	1200	3	6	9	3600
Q-ATS-540-BC-N	500	1.25	2.5	3 to 4	1500
Q-ATS-1060-BC-N	800	2	4	6	2400
Q-ATS-1530-BC-N	1500	3.75	7.5	10 to 12	4500

Notes:

1. BOD loading based on desired effluent quality.
2. Tank nominal size is combined volumes of 2/3 septic tank and 1/3 dosing tank.



Pre-assembled Mod

Flexible configurations

Multiple sizes available

Lightweight mods

Natural media

Unique 80%/20% effluent splitting

No gravity recirculation valve needed



NSF Only mods bearing the NSF® mark are certified to NSF/ANSI Standard 40, Class I

