



PROPELLER BEAD® FILTERS

ASTFILTERS.COM/WASTEWATER

PERFECT FOR HIGH LOAD, HIGH FLOW APPLICATIONS

The Propeller Washed Bead Filter is a versatile unit that can handle light or heavy total suspended solids (TSS). With a strong motorized propeller, this filter's backwash vigorously disturbs the bead bed to remove captured solids and the aging biofloc that accumulates on the beads during normal operation.

After backwashing, the sludge is allowed to settle prior to discharging from the unit. The settling time allows for the solids to concentrate in the unit and reduce water loss associated with solids removal. With Propeller Bead filters, you will only lose 10% of the water you would normally lose with sand filters.

AST has both standard flow and high flow (pressurized) Propeller Bead filters. Our Propeller Bead filters can handle flow rates up to 1500 GPM or 2.2 MGD, making them perfect for large systems that need frequent turnover. However, we are capable of producing larger custom units depending on your needs. Our largest unit to date is 450 ft³ that can handle 5,400 GPM or 7.78 MGD.



FILTER BENEFITS

- Superior clarification in a small footprint
- Motorized backwashing handles low to high solids loading
- Perfect for high flow rates and high TSS
- Less water loss than sand filtration systems
- Tested and proven technology for over 20 years
- Energy savings from smaller pumps and efficient design
- Long-lasting bead media is resistant to clogging and channeling
- One year warranty, USA made



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Standard Propeller Bead Filters for biological and mechanical filtration

MODELS	Flow Rate (gpm)	Cubic Feet Bead Media	Backwash Water Loss (gallons)
PBF-3PE*	30	3	5-10
PBF-5	50	5	25-50
PBF-10	100	10	50-100
PBF-25	250	25	150-250
PBF-50	500	50	350-425
PBF-100	1000	100	600-900

*Constructed of rotationally molded polyethylene. Pressure and flow limited by material.

High Flow Propeller Bead Filters for mechanical filtration and limited biofiltration

MODELS	Flow Rate (gpm)	Cubic Feet Bead Media	Backwash Water Loss (gallons)
PBF-3F	30	3	5-10
PBF-5S	75	5	25-50
PBF-10S	150	10	50-100
PBF-25S	375	25	150-250
PBF-50S	750	50	350-425
PBF-100S	1500	100	600-900

PAST PROJECTS



Six PBF-50S run in parallel to handle clarification for a flow of up to 6.5 MGD.



Three PBF-25S used for clarification at a flow rate of 1.6 MGD.



Automated PBF-10S capable of handling flows of 0.22 MGD.