

# AST<sup>TM</sup> HPPG FILTERS

ASTFILTERS.COM

• Superior Solids Removal • Excellent Biofiltration • Automatic Backwash • Low Water Loss • Air Operated •



The new High Profile PolyGeyser® Filters (HPPG) are perfect for large aquatic life support systems. Capable of handling large volumes of water under pressure, these PolyGeyser® filters backwash the media, multiple times a day, to maintain a healthy biofilm. The enhanced nitrification capacity makes this unit ideal for applications with high biofiltration needs.

PolyGeyser® filter technology pneumatically backwashes the media regularly, without manual intervention or controllers. This filter provides both mechanical and biological filtration with extremely low water loss by removing concentrated sludge.

This new design pairs the high pressure tolerance and flow rates attained in Propeller Bead® Filter models with the convenience and efficiency of a PolyGeyser®. Now you can enjoy the ease of maintenance and save water with a PolyGeyser® filter in high pressure applications.

## System Overview



### Front View

- ① Water outlet
- ② Water inlet
- ③ Trigger
- ④ Filter drain

Our patented PolyGeyser® technology separates the backwash process from water loss. HPPG filters collect solids over several backwashes until the sludge is manually drained, minimizing water loss.

### Key Facts

- Large inlet and outlet for high flow
- No moving parts for greater reliability

### Ease of Operation

- Suitable for airlift or pump configuration
- Low maintenance
- Internal sludge concentrator

### Filtration

- Mechanical and biological filtration
- No media replacement necessary
- Auto-pneumatic backwash

Model	Flow Rate (GPM)	Bead Volume (ft <sup>3</sup> )	RAS Volume (Gallons)		Peak Feed Rate (lb/day)		Approximate Pounds of Fish Supported* (lbs)	
			Fingerlings	Growout	Fingerlings	Growout	Fingerlings	Growout
HPPG 10	100-150	10	2,400	3,000	8	15	270	1,500
HPPG 25	250-375	25	5,700	7,400	19	37	630	3,700
HPPG 50	500-750	50	11,400	15,000	38	75	1,260	7,500
HPPG 100	1,000-1,500	100	22,500	30,000	75	150	2,500	15,000

Table based on TAN levels below 1.5 and 0.5 for growout and fingerling production respectively

\*Based upon a 1% and 3% daily feed rate for growout and fingerling production respectively

HPPG 25

