

AGST™ HPPG FILTERS



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



The new High Profile PolyGeysers® Filters (HPPG) are perfect for large aquatic life support systems. Capable of handling large volumes of water under pressure, these PolyGeysers® 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.

PolyGeysers® 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 PolyGeysers®. Now you can enjoy the ease of maintenance and save water with a PolyGeysers® filter in high pressure applications.

System Overview



Front View

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

Our patented PolyGeysers[®] 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	<ul style="list-style-type: none"> • Large inlet and outlet for high flow • No moving parts for greater reliability
	<ul style="list-style-type: none"> • Suitable for airlift or pump configuration • Low maintenance • Internal sludge concentrator
Ease of Operation	
Filtration	<ul style="list-style-type: none"> • Mechanical and biological filtration • No media replacement necessary • Auto-pneumatic backwash

Model	Flow Rate (LPM)	Bead Volume (Lt)	RAS Volume (Liters)		Peak Feed Rate (Kgs/day)		Approximate Pounds of Fish Supported* (Kgs)	
			Fingerlings	Growout	Fingerlings	Growout	Fingerlings	Growout
HPPG 10	380-570	284	9100	11350	3.6	6.8	122	680
HPPG 25	950-1420	708	21600	28000	8.6	16	285	1680
HPPG 50	1900-2840	1416	43200	56800	17.2	34	570	3400
HPPG 100	3785-5680	2832	85000	114000	34	68	1130	6800

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

