

PROPELLER BEAD® FILTER

		PBF Model	3PE	5	10	25	50	100
		Bead Media (ft³)	3	5	10	25	50	100
		Flow Rate (gpm)	30	50	100	250	500	1000
		Total Ammonia Nitrogen mg/L	Bioclarification Aquaculture Capacity for EN Media in lbs feed/day*:					
Warmwater (15-30°C)	Hardy Growout Volume (gallons)	1.5	4.8 960	8.0 1600	16.0 3200	40.0 8000	80.0 16000	160.0 32000
	Growout Volume (gallons)	1	3.6 720	6.0 1200	12.0 2400	30.0 6000	60.0 12000	120.0 24000
	Fingerling Volume (gallons)	0.5	1.8 720	3.0 1200	6.0 2400	15.0 6000	30.0 12000	60.0 24000
	Broodstock/Fry Volume (gallons)	0.3	1.2 960	2.0 1600	4.0 3200	10.0 8000	20.0 16000	40.0 32000
	Larvae Volume (gallons)	0.1	0.2 144	0.4 240	0.8 480	2.0 1200	4.0 2400	8.0 4800
Coolwater (5-10 °C)	Hardy Growout Volume (gallons)	1.5	2.4 480	4.0 800	8.0 1600	20.0 4000	40.0 8000	80.0 16000
	Growout Volume (gallons)	1	1.8 360	3.0 600	6.0 1200	15.0 3000	30.0 6000	60.0 12000
	Fingerling Volume (gallons)	0.5	0.9 360	1.5 600	3.0 1200	7.5 3000	15.0 6000	30.0 12000
	Broodstock/Fry Volume (gallons)	0.3	0.6 480	1.0 800	2.0 1600	5.0 4000	10.0 8000	20.0 16000
	Larvae Volume (gallons)	0.1	0.1 72	0.2 120	0.4 240	1.0 600	2.0 1200	4.0 2400
Specific Aquaculture Applications	Bait Fish/Shrimp Holding (lbs) Recommended Volume (gallons)		240 1200	400 2000	800 4000	2000 10000	4000 20000	8000 40000
	Max Oyster Holding ^A (lbs) Recommended Volume (gallons)		1440 720	2400 1200	4800 2400	12000 6000	24000 12000	48000 24000
	Warmwater Lobster Holding ^B (lbs) Recommended Volume (gallons)		720 360	1200 600	2400 1200	6000 3000	12000 6000	24000 12000
	Coldwater Lobster Holding ^B (lbs) Recommended Volume (gallons)		360 180	600 300	1200 600	3000 1500	6000 3000	12000 6000
	Shrimp Growout ^C (lbs) Recommended Volume (gallons)		150 3600	240 6000	480 12000	1200 30000	2400 60000	4800 120000
	Standard Koi Pond (lbs) Recommended Volume (gallons)		60 5400	100 9000	200 18000	500 45000	1000 90000	2000 180000
	Volume for Underwater Viewing (gallons)		900	1500	3000	7500	15000	30000

^A Assuming an oyster weight of 0.4 lb (meat and shell)

^B Warmwater is 10°C and Coldwater is 5°C

^C 14 week growout from a gram to 21/25 count shrimp

*Maximum feed rates are dependent upon system management and operation

ENHANCED MEDIA SIZING SPECIFICATIONS



ABOUT BACKWASH:

Utilized at some of the largest recirculating fish production facilities, zoos, and aquariums, these units accept versatile loads ranging from low to high solids due to the active motorized backwash system.

The motorized embedded propeller is used for frequent washing of the media, removing captured solids and excess media biofloc. The sludge then settles to the bottom of the unit where it is drained, reducing water loss that is normally associated with backwash processes. With Propeller Bead filters, you will only lose 10% of the water you that you would normally lose with run-of-the-mill sand filters.