



Propeller Bead® Filter Sizing Recommendations

PBF Filter Model	3PE	3F	5	5S	10	10S	25	25S	50	50S	100	100S	
Flow Rate (gpm)	30	75	50	100	100	200	200	300	300	600	600	1200	
Bioclarification Aquaculture		Rates for Std. Bead/EN Media in (lbs of feed/day):											
Grow-out. Eutrophic.	3/5		5/8		10/16		26/39		52/79		105/157		
Fingerling/Ornamental Growout Mesotrophic Warmwater. >15°C.	2/2		3/4		5/7		13/18		26/37		52/73		
Fingerling/Ornamental Growout Mesotrophic Coolwater. . 10-15°C .	1/1		2/2		4/5		9/12		18/25		35/49		
Broodstock/Fry/Holding/Conditioning. Oligotrophic.	1/2		2/3		3/5		8/13		16/26		31/52		
Bait Fish/Shrimp Holding (lbs)	150/225		250/375		500/750		1,250/1,875		2,500/3,750		5,000/7,500		
Recommend Bait System Holding Volume (gallons)	600/900		1k/1.5k		2k/3k		5k/ 7.5k		10k/15k		20k/ 30k		
Max Koi Pond Loading (lbs)	75		125		250		625		1,250		2,500		
Recommend Max Koi Pond Volume (gallons)	3,600	9k	6k	12k	12k	24k	24k	36k	36k	72k	72k	144k	
Recommend Volume of Display with Underwater Viewing (gallons)	900	2,250	1,500	3k	3k	6k	6k	9k	9k	18k	18k	36k	
Max Daily Feed Rate Solids Filtration Only	15		25		50		125		250		500		
Cubic Feet of Curler X-1		Recommended for Biological Filtration at Max Daily Feed Rate for Solids Only											
at 25-30°C		14		23		46		115		231 ¹		462 ¹	
at 15-20°C		18		30		60		149 ¹		298 ¹		595 ¹	
at 5-10°C		23		39		78		195 ¹		389 ¹		778 ¹	

¹We recommend you not exceed 125 cubic feet of Curler X-1 in a single reactor. If the required volume of Curler X-1 exceeds 125 Cubic feet, utilize multiple reactors.