



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 feed/day):												
Grow-out. Eutrophic.	3/5		5/8		10/16		26/39		52/79		105/157	
Fingerling/Ornamental Grow-out. >15°C. Mesotrophic Warmwater.	2/2		3/4		5/7		13/18		26/37		52/73	
Fingerling/Ornamental Grow-out. 10-15°C. Mesotrophic Coolwater.	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	

¹ We recommend you not exceed 125 cuft of CurlerX-1 in a single reactor. If required volume of Curler X-1 exceeds 125 cuft utilize multiple reactors.