

### Minder UF-MS BEAD FILTER SIZING

Model	UF-MS18	UF-MS21	UF-MS25	UF-MS28	UF-MS28B	UF-MS30	UF-MS32	UF-MS36	UF-MS36B	UF-MS40	UF-MS48	UF-MS48B
Nom. Diameter	434	521	601	685	685	730	801	901	901	996	1190	1190
Filter Surface Area (m2)	0.15	0.21	0.28	0.37	0.37	0.44	0.50	0.64	0.64	0.78	1.11	1.11
Media Volume (m3/ft3)	0.05 (1.8)	0.07 (2.5)	0.14 (4.94)	0.17 (6)	0.17 (6)	0.21 (7.42)	0.26 (9.18)	0.33 (11.5)	0.33 (11.5)	0.43 (15.29)	0.66 (23.25)	0.66 (23.25)
Amount of Bead	1,592,524	2,211,840	4373694	5,308,416	5,308,416	6,557,455	8,118,753	10,174,464	10,174,464	13,533,411	20,575,412	20,575,412
Bio Media Total Specific Surface Area m2/ft2	75.516 (812.85)	105.03 (1130.5)	207.7 (2,235.66)	252.06 (2,713.2)	252.06 (2,713.2)	311.37 (3,351.56)	385.505 (4,149.54)	483.12 (5,200.3)	483.12 (5,200.3)	642.61 (6,917)	977 (10,516)	977 (10,516)
Max Flow Rate (m3/h)	8	12	16	19	20	22	25	30	31	33	42	58
Ammonia Metabolism rate per day (mg)	16,259	22,610	44712	54,264	54,265	67,033	82,993	104,006	104,006	138,342	210,327	210,327
Max Pond Size (m3)	12.0	19.0	26.0	38.0	42.0	46.0	53.0	61.0	67.0	72.0	92.0	127.0
Feed Rate (kg)	0.12	0.17	0.34	0.41	0.41	0.50	0.62	0.78	0.78	1.04	1.58	1.58
Total Ornamental Fish (kg)	4.063	5.653	11.179	13.566	13.566	16.758	20.748	26.001	26.002	34.667	52.667	52.667
Total Aquaculture Fish (kg)	12	17	34	41	41	50	62	78	78	104	158	158
Tank Diameter (mm)	454	541	621	705	705	750	821	921	921	1016	1210	1210
Overall Height (mm)	670	710	830	895	895	1000	1030	1130	1130	1230	1310	1310
Valve Size	1.5"	1.5"	1.5"	1.5"	2.0"	2.0"	2.0"	2.0"	2.5"	2.0"	2.0"	2.5"

1. Determine you Pond Size
2. Make sure feed and fish load is not exceeded and also considering the fish will grow bigger and heavier overtime

**Note: It is better to oversize equipment**

