

Matala®
Make water alive

Biosteps 10

For PONDS UP TO 10,000L / 2,700 GAL



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FEATURES OF BIOSTEPS FILTER:

- State of the Art Progressive Filtration.
- Supplied with sufficient volume of Matala® filtermedia with progressive densities.
- Filter design enhances growth of different ecological communities of bacteria and planktonic organisms that will colonise different sections of the filter.
- Cross-Flow pattern: traps more dirt at high flow rates without plugging.
- Built-in overflow safety.
- Easy maintenance.
- Sloped bottom with extra sink at outlet for easy draining.
- Modular Design allows for future expansion.
- Rugged construction.

STEP-WISE TRANSITION FROM MECHANICAL FILTRATION TO HIGH-EFFICIENCY BIO FILTRATION:



Filter sections	Contents	Function
1	Inlet Chamber	Water inlet + sedimentation of biggest particles.
	Optional: + UVC	To prevent blooms of unicellular algae, bacteria, parasites
2	Medium Density Matala®	Prefiltration: to capture particles for conglomeration, sedimentation. To further digest organic matter by heterotrophic bacteria and plankton
3	High Density Matala®	Biofiltration: Nitrification / nutrient balancing by plankton
4	Super High Density Matala®	Biofiltration: Nitrification / nutrient balancing by plankton
5	Super High Density Matala® PU Filter Foam	Biofiltration: Nitrification, Denitrification and nutrient balancing by plankton
6	Outlet Chamber	Water polishing: sedimentation of bacterial floc. Water outlet.

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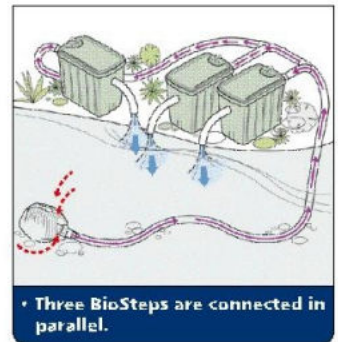
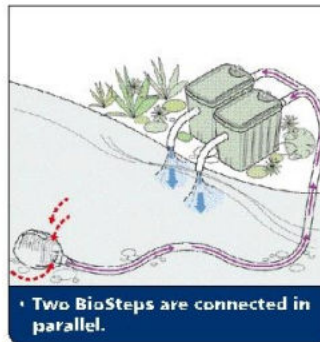
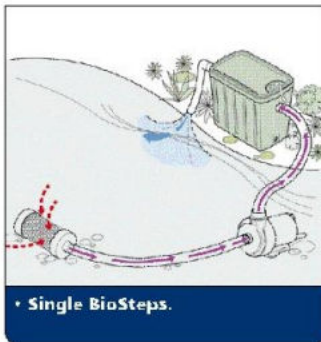
Biostep 10	
Dimensions in mm (LxWxH)	590 x 315 x 512
Dimensions in inches (LxWxH)	23.2 x 12.4 x 20.2
Max. flow-through(LPH), (GPH)	4000 LPH, 1060 GPH
Inlet: universal hose adapter	1", 1 1/4", 1 1/2"
Outlet: Bulkhead fitting, push fit type, 2-steps	1 1/2" and 50mm
Sludge drain: Universal hose tail + stopper	1 1/4", 1 1/2", + stopper 1"
No. of Matala filter mat Green (SM290)	2
No. of Matala filter mat Blue (SM360)	2
No. of Matala filter mat Gray (SM460)	3
No. of PU foam Black	1
Suitable for pond volume up to (L), (Gal)	10,000(L), 2,700(Gal)
Suitable for koi pond volume up to (L), (Gal)	5,000(L), 1,350(Gal)
Article no.	10000100

*The above specifications are subject to change without prior notice.

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INSTALLATION



PLUG AND PLAY RECOMMENDATIONS: COMPLETE FILTER SYSTEMS FOR DIFFERENT POND SIZES

OPTIONAL

Pond volume Up to:		KDI CARP Pond volume		Number of BioSteps	Pump capacity		Recomm hose diameter for pump to filter		LVC capacity range	Recomm Number of EzBio 11	Recomm Number of EzBio 20
Liters	Gallons	Liters	Gallons		Liters/H	Gallons/H	mm	inch	Watt		
3000	800	1500	400	1	750-1200	200-320	25	1"	9 to 13	1	
5000	1600	3900	800	1	1500 - 2500	400 - 660	32	1 1/4"	9 to 18	1	
10000	2650	5900	1330	1	2500 - 4000	660 - 1060	40	1 1/2"	18		1
15000	4000	8900	2100	2	4000 - 6000	1060 - 1590	40	1 1/2"	2 x 18		1
22500	6000	12000	3200	3	6000 - 10000	1590 - 2640	40	1 1/2"	3 x 18		2
30000	8000	16000	4230	4	10000 - 13500	2640 - 3570	40	1 1/2"	4 x 18		2