

BioSteps-II

For PONDS UP TO 2,700 GAL / 10,000L
Best value filter in the market

Features and Benefits:

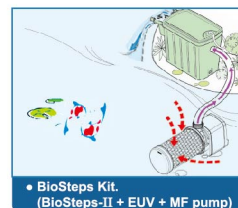
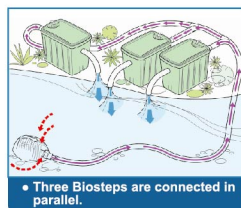
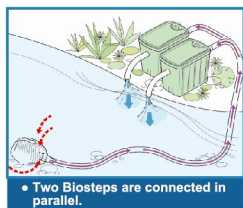
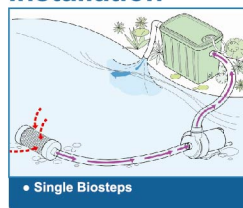
- State of the Art Progressive Filtration.
- It is supplied with a sufficient volume of Matala filter media with progressive densities.
(The total available surface area is 0.9 ft³ for 6 filter pads.)
- Filter design enhances the growth of different bacteria and planktonic organisms ecological communities in 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 outlet for easy draining.
- Modular Design allows for future expansion.
- Rugged construction.
- EzClear UV Clarifier and Waterfall are optional.



Specification	Model	BSTPII
Suitable for pond volume up to	(gal) / (L)	2,700 (gal) / 10,000(L)
Suitable for koi pond volume up to	(gal) / (L)	1,350(gal) / 5,000(L)
Max. flow-through	(GPH) / (LPH)	1,060(GPH) / 4,000(LPH)
Suggestion flow-through	(GPH) / (LPH)	850(GPH) / 3,220(LPH)
Inlet: universal hose barb	(in)	3/4" , 1" , 1-1/4" , 1-1/2"
Outlet: Bulkhead fitting, push fit type, 2-steps	(in) / (mm)	1-1/2" / 38mm
Sludge drain: Universal hose barb + stopper	(in)	1-1/4" , 1-1/2" , + stopper 1"
No. of Flex-Matala filter mats in sequence:	(mats)	Green(FSM290) x 2pcs, Blue(FSM365) x 2pcs, Gray(FSM460) x 2pcs
Dimensions: LxWxH	(in) / (mm)	23x15x20 / 590x380x512
Ship weight	(lbs) / (kg)	19.2 / 8.7
Additional parts		Model
With EUV-16W (Philips T5 lamp)		BSTPII-16W
With waterfall		BSTPII-WF

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

Installation



Plug and play recommendations: complete filter systems for different pond sizes

Pond volume Up to:		KOI CARP Pond volume		Number of BioSteps	Pump capacity		Recommend hose diameter for pump to filter		UVC capacity range	Recommend Number of EzBio 11 Plus	Recommend Number of EzBio 20	Recommend Number of Waterfall
Liters	Gallons	Liters	Gallons		Liters/H	Gallons/H	mm	inch	Watt			
3000	800	1500	400	1	1330 - 1520	350 - 400	19	3/4"	16	1		1
6000	1600	3000	800	1	2650 - 3050	700 - 800	19	3/4"	16	1		1
10000	2660	5000	1330	1	3050 - 3800	800 - 1000	19	3/4"	16		1	1
15000	4000	8000	2100	2	4950 - 6850	1300 - 1800	25	1"	2 x 16		1	2
22500	6000	12000	3200	3	6850 - 11000	1800 - 2900	25	1"	3 x 16		2	3

Biosteps Kits:

Magna-Flow Pump - EzClear UV Clarifier - Mechanical / Biological - Waterfall Features

Step-wise transition from mechanical filtration to high-efficiency bio-filtration:



Item	Model	Biosteps Plus	Biosteps Plus-WF	Biosteps Pro	Biosteps Premium
Biosteps-II		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Magna-Flow Pump*		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
3/4"x25' Kink free tubing (include 2 hose clamps)		<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EUV-16W		—	—	<input type="radio"/>	<input type="radio"/>
Waterfall		—	<input type="radio"/>	—	<input type="radio"/>
Dimensions per box: LxWxH	(in) / (mm)	23.2 x 15.0 x 20.7 590 x 380 x 525	23.2 x 15.0 x 20.7 590 x 380 x 525	23.2 x 14.8 x 26.5 590 x 375 x 675	23.2 x 14.8 x 26.5 590 x 375 x 675
Ship weight	(lbs) / (kg)	27.1 / 12.3	28.4 / 12.9	32.0 / 14.5	32.8 / 14.9

* The above specifications are subject to change without prior notice. * The model MF-1100EZ for 110-120V, MF-4200EZ for 220-240V.



Filter sections	Contents	Function
1	Magna-Flow Pump	Water inlet + capture of big particles.
2	Optional: + EUV-16W	To prevent blooms of unicellular algae, bacteria, parasites.
3	Medium Density Matala	Prefiltration: to capture particles for conglomeration, sedimentation. To further digest organic matter by heterotrophic bacteria and plankton.
4	High Density Matala	Biofiltration: Nitrification / nutrient balancing by plankton.
5	Super High Density Matala	Biofiltration: Nitrification, denitrification and nutrient balancing by plankton.
6	Outlet Section	Water polishing: Sedimentation of bacterial floc. Water outlet.
7	Optional: + 11" waterfall & fitting	The waterfall advantages are to create the turbulence and increase the oxygen content.

Minifall 11

A simple step to add a waterfall feature to the pond and create turbulence to increase the oxygen content.

Specification	Model	WF11
Inlet	(in) / (mm)	1-1/2 / 38
Spillway	(in) / (mm)	11 / 279
Flow rate	(GPH) / (LPH)	500-1200 / 1890-4540
Dimensions :LxWxH	(in) / (mm)	12.4x7.8x8.0 / 315x197x203
Ship weight	(lbs) / (kg)	1.9 / 0.9

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