

BERLINER WD-125 MULTIFUNCTIONAL WET/DRY FILTER SET

PRODUCT OVERVIEW

- State of the art multifunctional wet/dry filter that can be operated in 100% berlin mode with four 100-micron filtration bags for superior water polish and nitrate control, 100% wet/dry bio-ball mode, or a combined wet/dry/berlin mode for the ultimate in water clarity and oxygen saturation.
- Additionally the Berliner WD-125 incorporates two independently operated fluidized bed chemical filtration reactors to accommodate carbon, phosphate removers, nitrate removers, or any other chemical filter resin or media. Bypass-free operation of the reactors ensures ultra-efficient chemical filtration. Reactors come with gasketed screens and accept loose media.
- Berliner WD-125 has been designed with a super-flow capacity weir for handling very large flow rates and a noise elimination chamber for quiet operation. All components are injection-molded and the filter body is flame polished cell-cast acrylic providing the highest level of fit and finish, ease of use, and long term reliability

FEATURES & BENEFITS:

- Constructed of 0.25 in thick cell cast acrylic, computer cut, flame polished.
- Super-flow capacity weir rated at 2000+ GPH (7571+ L/hr).
- Noise reducing water intake chamber.
- Four interchangeable trays for drip and micron bag filtration.
- Two independent filtration chambers for bio-ball or micron filtration.
- Two independent bypass-free fluidized bed chemical filtration reactors.
- Extra large capacity sump without obstructive dividers.
- Protein skimmer return port.

TECHNICAL SPECIFICATIONS:

Outside dimensions L x W x H:	30 in x 11.25 in x 18 in (76 cm x 29 cm x 46 cm)
Sump volume:	4281 in ³ ; 18 Gal (70153 cm ³ ; 70 L)
Bio-chambers total volume:	927 in ³ ; 4 Gal (15191 cm ³ ; 15 L)
Chemical reactors total volume:	111 in ³ ; 0.5 Gal (1819 cm ³ ; 1.8 L)

Flow rates:

Berlin filtration mode:	up to 2000 Gal/hr (7571 L/hr)
Wet/dry filtration mode:	up to 1000 Gal/hr (3785 L/hr)
Combination mode:	up to 1500 Gal/hr (5678 L/hr)
Chemical reactor (per reactor):	120-250 Gal/hr (454-946 L/hr)

ENCLOSED PARTS & COMPONENTS

PURA Filtration Pad 7.5 x 10.5 in (19 x 27 cm)	1 EA
100-micron polyester felt filtration bag with flange 4 D x 5 L in (10 D x 13 L cm)	2 EA
100-micron polyester felt filtration bag with flange 4 D x 12 L in (10 D x 30 L cm)	2 EA
Pre-filter drip tray	2 EA
Pre-filter bag tray	2 EA
Intake pipe	2 EA
Intake pipe gasket	3 EA
Bio-ball retaining grid	2 EA
Chemical reactor (assembled)	2 EA
Flexible hose 4 ft L (122 cm L)	1 EA
Hose cuff	2 EA
Hose clamp	2 EA
Silicone adhesive (tube)	1 EA
Instruction manual	1 EA

Bio-balls must be purchased separately.

Included flexible hose, hose cuffs, clamps, & silicone adhesive are sufficient to plumb a single intake pipe. For double intake configuration an additional Drain Kit must be purchased separately.

SIMPLICITY CHEMICAL REACTOR

PRODUCT OVERVIEW

- State of the art fluidized bed chemical reactor for wet/dry, berlin sumps and refugiums up to 900 Gal.
- As a fluidized bed type reactor, the Simplicity Chemical Reactor is the most efficient way to implement chemical filtration. It is also the easiest and most user-friendly way of implementing chemical filter media in any sump type filter.
- Designed to accept any loose filter media. No bags, no mess.
- 100% bypass free.
- Reactor employs 300-micron screens for containing media, making it suitable for even very fine medias such as ion-exchange resins and very small-grained carbons.
- The symmetrical design of the reactor offers a screen self-cleaning feature. When the screen clogs with aquarium debris and the flow rate becomes reduced flipping the reactor 180 degrees restores flow rate
- Simplicity Chemical Reactor can be operated in two distinct modes:

MODE 1 fluidizes up to 16 oz (454 g) of media at flow rates up to 100 GPH (378 LPH)

MODE 2 up-flows through up to 16 oz (454 g) of media at flow rates up to 500 GPH (1893 LPH)

MEDIA USAGE CHART

Media Type	Recommended usage duration	Recommended frequency of usage
PURA Carbon or equivalent	24 to 48 hrs then dispose	weekly
PURA PhosLock or equivalent	24 to 48 hrs then store for reuse	weekly
PURA Complete or equivalent	24 to 48 hrs then store for reuse	weekly
PURA NitrateLock	12 to 24 hrs then regenerate	weekly

TECHNICAL SPECIFICATIONS:

System volume:	50 to 900 Gal (189 to 3407 L)
System type:	Fresh & saltwater aquariums
Reactor volume:	0.25 Gal (946 mL)
Flow rate:	50 to 500 GPH (189 to 1893 LPH)*
Fitting:	0.5 in (12.7 mm) barbed
Media volume:	5 to 16 oz (150 to 454 g)
Media type:	Carbons, resins, phosphate removers, nitrate removers, and other blended medias
Screen type:	300-micron polyester
Gaskets type:	Silicone

* requires small pump or powerhead for operation