

COMPONENTS



Pond Waterfall box



Solar Panel *2



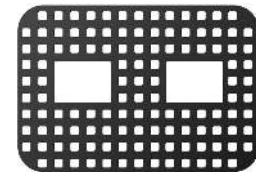
Y Branch Parallel Cable



Water Pump



Pump Outlet



Metal Cover



Filter Sponge Pad



Ceramic Rings *4



Corrugated Tubing & Clamps



Elbow Fitting



Round Bracket



Filter Bag *1

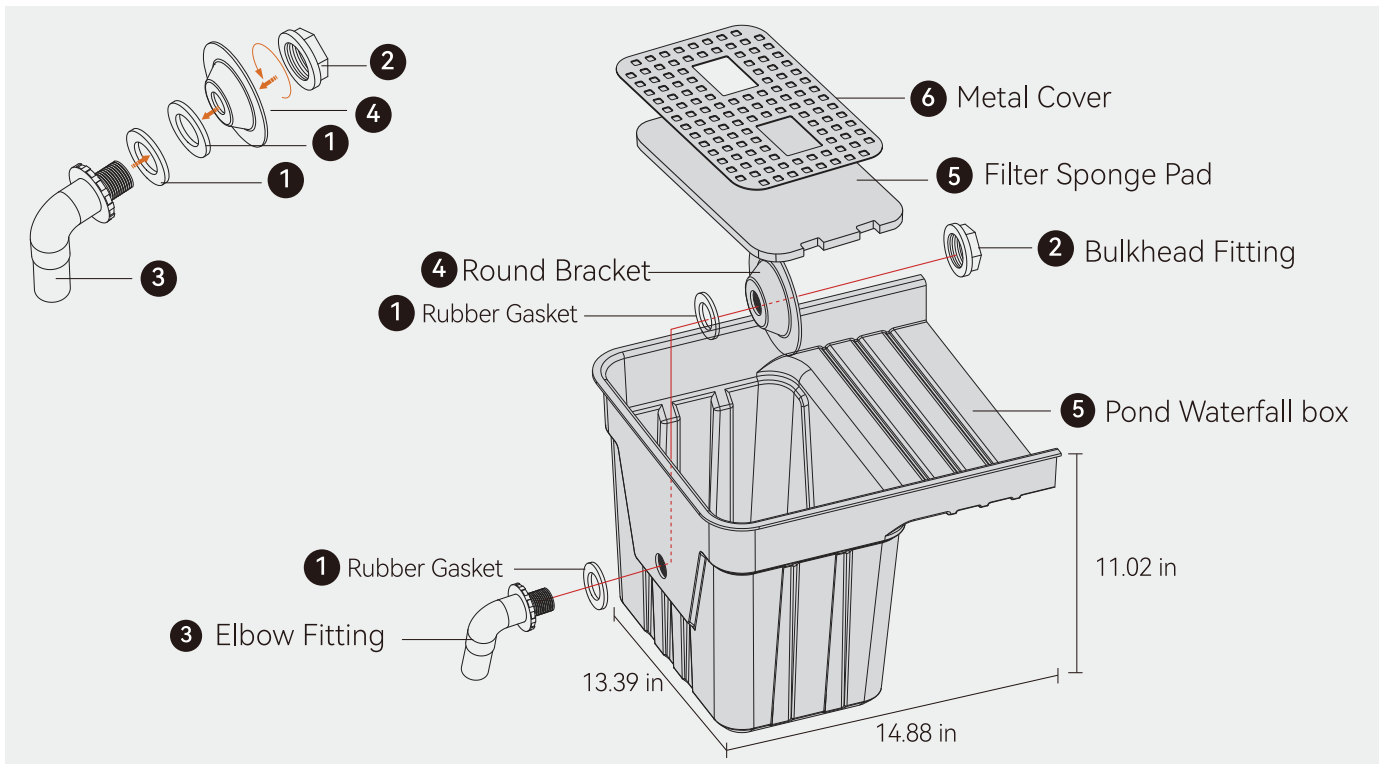


Framed Filter Bag*1

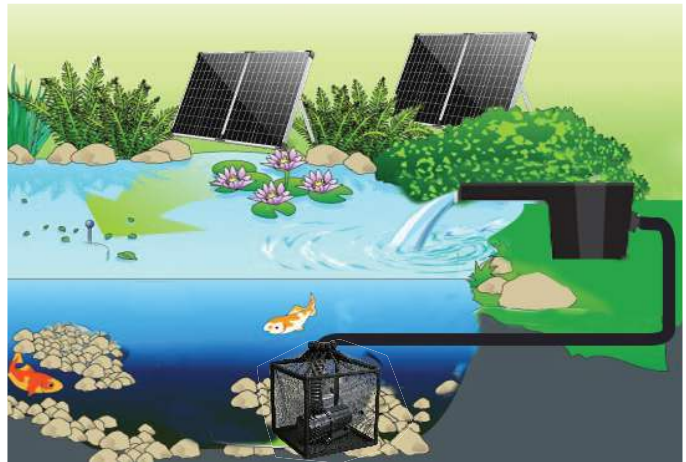
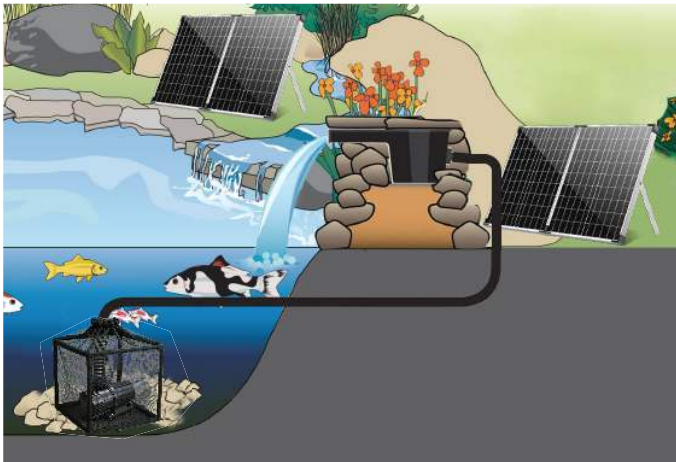
SAFETY

- Please read this manual before use.
- This solar system operates directly on sunlight. Reduced or intermittent water flow is normal during cloudy weather or low-light conditions. For best performance, place the solar panel in full, unobstructed sunlight—facing south at a 15–30° angle.
- Ceramic rings are shipped in PE bags. Remove the PE bags before use to ensure normal function. When in use, the mesh bag with ceramic filter rings can be removed or kept.
- Designed for outdoor use only. Place the filter on a stable, level surface where any overflow can safely return to the pond and will not affect nearby electrical devices.
- Ensure all hoses and connections are securely tightened to prevent water loss, pump damage, or harm to fish and plants.
- The pump must always be fully submerged during operation.
- Disconnect the pump from the solar panel before maintenance.

CONSTRUCTION DIAGRAM



TWO INSTALLATION METHODS



1.Dug-In Installation:

Excavate a recess next to the pond to embed the waterfall filter, ensuring it fits snugly and aligns perfectly with the pond's edge for a seamless look and function.

2.Free-standing Installation:

Place the filter directly adjacent to the pond without digging. Verify the base is completely stable and level to prevent water from overflowing the sides during operation.

Note: For both installation methods, always use a spirit level to confirm the filter is perfectly horizontal—this is critical to avoid water spillage and ensure optimal performance. Additionally, check that the filter's water inlet/outlet pipes are securely connected to prevent leaks during use.

MAINTENANCE & CARE



Routine Cleaning

Filter Performance Check: If you notice reduced water flow or decreased filtration effectiveness, clean the filter. Cleaning frequency depends on your pond's environment (e.g., debris levels, fish population).

Water Pump:

For a visual guide, you can search for the "DC4000 Pump Cleaning video "on YouTube for detailed cleaning steps. Clean weekly or when you notice reduced flow.

1. Unplug the pump and remove it from the water.
2. Take off all filter bags and pump 's impeller. Rinse the filter bags, impeller and pump body with pond water to remove debris.
3. Reassemble the pump and submerge it back into the water before plugging it in.

Clean the Solar Panel:

Wipe the solar panel surface periodically every couple of weeks with a soft, damp cloth to remove dust, dirt, or leaves. A clean panel ensures maximum sunlight absorption and charging efficiency.

Filter Sponge Pad:

Clean weekly. Remove Sponge Pad, rinse them with clean water (outside the pond). Replace Sponge Pad at least once a year.

Ceramic Rings:

These porous rings host beneficial bacteria. Clean them once every 3–6 months using pond water (to preserve bacteria). Gently rinse to remove surface debris—avoid scrubbing or using chemicals. Replace only if they crack or degrade, typically every 1–2 years.

Biological Filtration & Bacteria Care

- The filter uses beneficial bacteria (on ceramic rings and other media) to break down waste and pollutants into harmless byproducts, keeping water clear and supporting aquatic life. This “maturation” process takes several weeks, so run the filter 24 hours a day to maintain bacterial activity.
- Never use cleaning agents or chemicals—they harm beneficial bacteria and the pond environment.

Seasonal & Long-Term Care

Winter Storage: If storing the waterfall filter for winter, ensure Ceramic Rings and other media are dry and clean. In spring, recharge the waterfall filter with beneficial bacteria before restarting.

ASSEMBLING

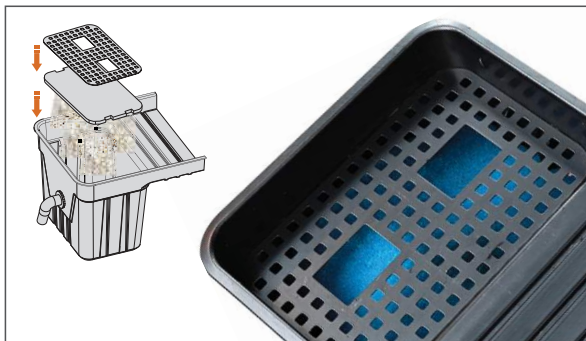
For visual installation instructions, please search for the installation video by product name for a detailed guide.



1. Install elbow fitting and round bracket.



2. Fix filter bag to round bracket.



3. Place ceramic rings & filter sponge, then cover with metal lid.



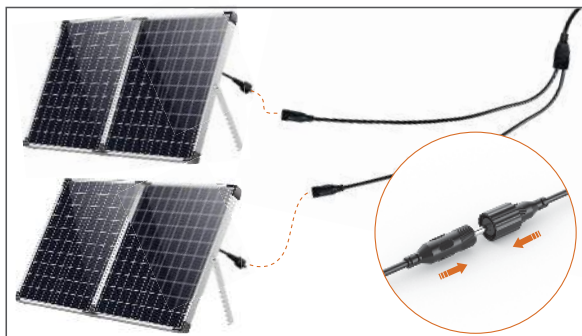
4. Connect tubing to elbow fitting and secure with hose clamp.



5. Install water pump outlet.



6. Connect tubing and submerge bagged pump



7. Use the Y-cable to connect two solar panels and the pump.

