

Jellyfish® Filter

Highest Flow Rate/Lowest Head Loss

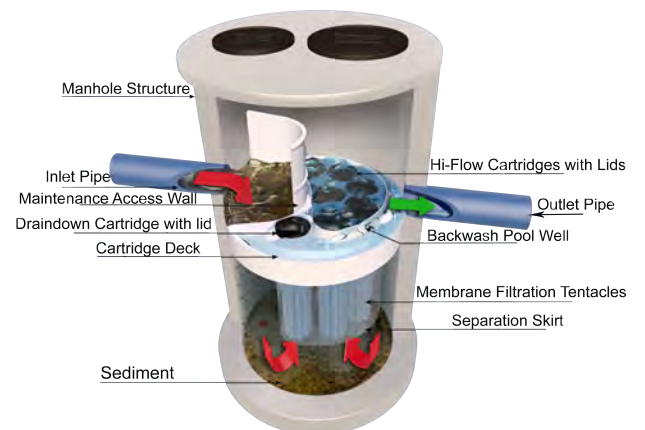
The Jellyfish Filter is a stormwater quality treatment technology featuring high surface area and high flow rate membrane filtration at low driving head. The Jellyfish incorporates primary separation with light-weight membrane filtration, the Jellyfish Filter removes floatables, trash, oil, debris, TSS, fine silt-sized particles, and a high percentage of particulate-bound pollutants; including phosphorus and nitrogen, metals and hydrocarbons.

The high surface area membrane cartridges, combined with up flow hydraulics, frequent backwashing, and rinsable/reusable cartridges ensures long-lasting performance.

How does it work?

- Stormwater enters the Jellyfish through the inlet pipe, builds driving head, and traps floating pollutants behind the maintenance access wall.
- As the stormwater flows downwards parallel to the separation skirt litter, debris and fine particles (such as sand) are able to settle into the sump.
- The driving head causes the water to enter the filtration zone and up through the top of the cartridge into the backwash pool. Once the water has filled the backwash pool, clean water overflows where it exits via the outlet pipe.
- At the end of the storm event the filtered water in the backwash pool flows back through the high flow membrane cartridges into the lower chamber. This passive backwash extends cartridge life, keeping the membrane clean for future events.
- The drain down cartridge(s) located outside the backwash pool enables water levels to balance and the deck to drain dry.

Jellyfish Filter and Components





Features and Benefits

- Large surface area membrane filtration
- High design treatment flow rate per cartridge (up to 5L/s)
- Low driving head (typically 460mm)
- Lightweight cartridges with passive backwash
- Low flux rate promotes cake filtration and reduces occlusion
- Compact system with a small footprint, lower construction cost
- Design flexibility, lower construction cost
- Easy maintenance and low life-cycle cost

Configurations and Applications

The Jellyfish Filter is available in a variety of configurations: pre-cast manholes and vaults, custom tanks or insitu configurations.

The system has been designed for a wide range of applications such as:

- Commercial, Industrial and Residential development, infill and redevelopment and stormwater quality retrofit applications
- Special projects: Highways, airports and military installations
- Pre-treatment for Water Sensitive Urban Design (WSUD), infiltration and rainwater harvesting and reuse systems

Maintenance

- Visual inspection of deck, cartridge lids, and maintenance access wall
- Vacuum extraction of oil, floatable trash/debris, and sediment from manhole sump.
- Rinsing and re-installing of filter cartridges.
- Replacement of filter cartridge tentacles as needed. Cartridge replacement intervals vary by site; replacement is anticipated every 2-5 years.



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