

Introduction

The Spiral Brush Screen Filter is designed for the continuous, automated removal of ultra-high and variable suspended solids and BOD from process water and wastewater. By implementing this highly efficient filtration solution, food and beverage manufacturers, along with farms and other industrial customers, can reduce wastewater treatment and disposal costs, improve existing treatment system efficiency/capacity, and potentially reduce freshwater consumption through beneficial reuse. The Spiral Brush Screen Filter is also an excellent pre-filter for our Two-Step Reverse Osmosis™ System or other microfiltration and ultrafiltration systems.



How it works

The wastewater to be filtered flows into the top of the unit where it enters the interior of the cylindrical screen. Clarified material, or filtrate, exits the unit by passing through the screen while the solids accumulate inside the screen. The motor at the bottom of the unit spins a cleaning brush within the screen, keeping the screen clean and pushing the accumulated solids to the purge outlet at the bottom of the unit. An automated valve opens periodically to discharge these solids out of the unit—there is no disruption to the process flow and no shut down time for backwashing.

System Description & Pricing

- ✓ Available with one to four units per skid and a choice of powder coated steel or a full stainless steel skid
- ✓ Stainless steel screens available from 10 to 250 microns to customize the particle size removal and throughput
- ✓ Custom-engineered plastic brushes (which operate inside the screens), and high-efficiency 3 hp motors
- ✓ Isolation valves enable the operator to remove one unit for maintenance while the rest remain in service.
- ✓ Cold water inlet valve for flushing prior to system shut-down or maintenance.
- ✓ Maintenance platform with non-slip grating
- ✓ Two NEMA 4X enclosures and HMI for easy operations

Number of Housings	Estimated Throughput* (GPM)
1	100 - 200
2	200 - 400
3	300 - 600
4	400 - 800

*Throughput varies depending on material being filtered and screen size selected



Multi-Plex Units