

EWT[™] Scourguard[™] Filter Troughs

Air-Scour and Backwash Simultaneously with Minimal Media Loss

Key features & benefits

- Simultaneous air-scour and backwashing
- Stainless steel and fibre-reinforced plastic construction available

How we create value

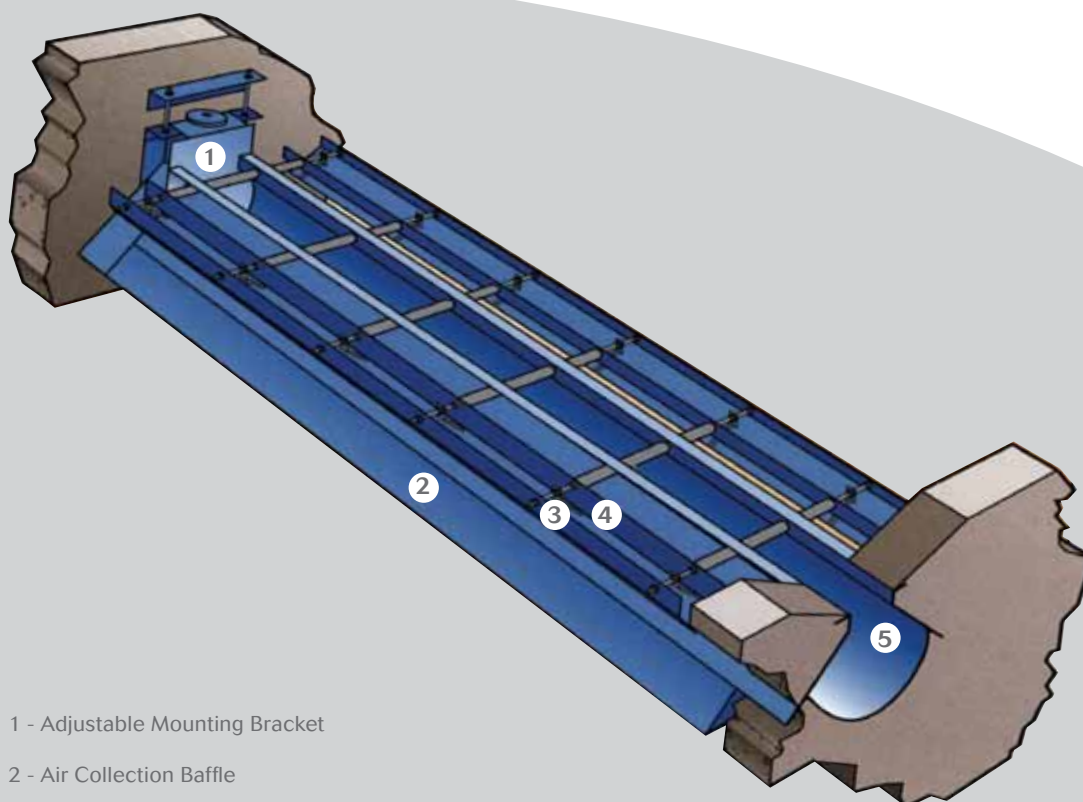
- Efficient removal of deeply embedded contaminants
- Minimal media loss, ensuring long unit life
- Economical operation reduces wastewater and backwash frequency



Backwash Troughs

EWT™ Scourguard™ backwash troughs allow granular media filters to be cleaned by simultaneous application of air scour and backwash water, with only minimal media loss in the backwash waste. Simultaneous application of air scour and backwash water is an aggressive media cleaning technique, allowing tenacious, deeply embedded contaminants to be removed quickly and efficiently. Although this economical technique reduces backwash frequency and wastewater production, media loss is a potential problem. When backwash water is allowed to overflow the trough weirs during air scour, air induced turbulence can cause media particles to be carried into the waste trough and lost.

The EWT Scourguard trough minimizes the incidence of media carryover by creating a quiescent zone adjacent to the trough weir. Large baffles adjacent to the trough deflect hydraulic energy, allowing media to settle out of the wastewater stream before the stream crosses the weir. These baffles are positioned just below liquid level to allow troublefree, continuous surface skimming for removal of floating solids. The EWT Scourguard trough allows maximum media cleaning, reduce backwash water consumption and protect against media loss. Stainless steel or FRP construction materials are available.



- 1 - Adjustable Mounting Bracket
- 2 - Air Collection Baffle
- 3 - Primary Baffle
- 4 - Secondary Baffle
- 5 - Trough Outlet

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