

ScourGuard™ Media Filter

Air-Scour and Backwash Simultaneously with Minimal Media Loss



ScourGuard Media Filter Backwash Troughs

Eimco Water Technologies ScourGuard™ backwash troughs allow granular media filters to be cleaned by simultaneous application of air scour and backwash water, with minimal media loss in the backwash waste. Concurrent application of air scour and backwash water is an aggressive media cleaning technique that allows tenacious, deeply embedded contaminants to be removed quickly and efficiently. The technique offers real operating economies

through reductions in backwash frequency and wastewater production, but 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.

ScourGuard troughs minimize 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 waste water stream before it crosses the weir. These baffles are positioned just below liquid level to allow trouble-free, continuous surface skimming for removal of floating solids. ScourGuard troughs allow maximum media cleaning, reduce backwash water consumption and protect against media loss. Stainless steel or FRP construction materials are available.

