

# Siltbuster®

## Chemical Dosing Systems

The incoming water passes through a magnetic flow meter which records the total volume of water treated. Proportional to the incoming flowrate, dosing pumps ensure the correct amount of water treatment chemicals are automatically introduced. Removing the risks associated of under/over dosing when using a fixed or manual dose rate.

The reaction tank is split into either two or three compartments. Each compartment is fitted with a top mounted variable speed mixer designed to mix the dosing chemicals. By varying the motor speeds, the mixing energy set at the optimum value to achieve coagulation and/or flocculation.

Alternatively a pipe flocculator can be used in place of the mix tank. Inplace of mixers, a pipe flocculator uses a series of bends and step changes to create a uniform mixing of chemicals.

Following chemical pre-treatment, the once fine particulates have bound together forming larger, more rapidly settling particles.

Chemically treated solids are then be settled out in Siltbuster Settlement Units (multiple units connected in parallel for larger flows).



Pipe Flocculator

Mix Tank



The incoming flowrate is measured in real time through the use of a digital magnetic flowmeter and relays the information to on-board chemical dosing equipment.



Proportional to the incoming flowrate, dosing pumps ensure the correct amount of water treatment chemicals are automatically introduced. Removing the risks associated with under/over manual dosing.



The chemicals are injected into either a pipe flocculator or Mix Tank which provides contact time and mixing energy required to fully disperse and intermix the coagulant and flocculant.



The chemically conditioned material then passes through an inclined lamella where the solids causing the waters to become dirty and discoloured are captured.



Allowing the treated waters to exit the system and enter safely back into the environment.