

MARINFLOC Neptumatic MOC

Process description

The **Neptumatic MOC** Sewage Treatment system processes all water in one common process to achieve an effluent standard in accordance with the IMO and US Coast Guard regulations.

To guarantee effectively steady contamination reduction, the **Neptumatic MOC** operates with constant flow as incoming peaks are collected in an inlet tank. All water is passed through a self-cleaning screen. (MOC 12 and MOC 20 to be cleaned manually)

In the oxidation stage, the polluted water is circulated a number of times under high pressure as air is drawn into the system. The intensive mixing of air and polluted water causes a highly oxygenated pressurised environment – resulting in rapid degradation of organic pollutants.

The flocculent agent is continuously injected into the flow, forcing the impurities to combine and build up large aggregates/flocs.

In the floatation tank, the flocs are carried to the surface of the flotation tank by micro air bubbles. A scraper conveyor transfers the resulting sludge to the sludge storage tank.

A disinfectant is also added to the fluid, minimising the faecal coli bacteria content.

Purified water is automatically discharged overboard via the outlet tank.

