

X-Tractor[®] Crossflow MBR

In an *X-Tractor[®]* installation *tubular membranes* are placed outside in an external loop of the bioreactor. The sludge – purified water mixture is passed at high speed along the surface of the membrane in order to maintain turbulent conditions at the membrane surface.

The water will pass through the membranes while the suspended solids (MLSS) are retained and recycled to the bioreactor. Due to high speed recirculation these membranes have very low fouling characteristics and are therefore especially used in rather difficult wastewater applications such as laundry and leachate wastewater treatment.

A potential disadvantage of this technology however compared to the *Atlantis[®]* technology is the higher energetic consumption. Therefore these installations are generally used to treat smaller but rather difficult wastewater flows.

An advantage however of placing the membranes outside the bioreactor however is that harsh membrane cleanings can be performed easily since there is no immediate contact with the biomass in the bioreactor.

