

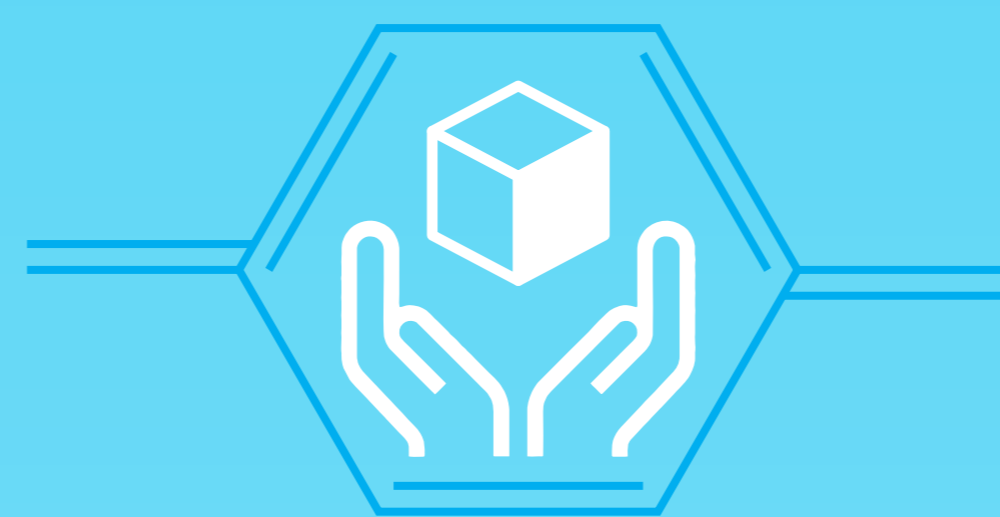
SUFRO®

The best way to recycle wastewater

Wastewater treatment system with conventional ultrafiltration (UF)

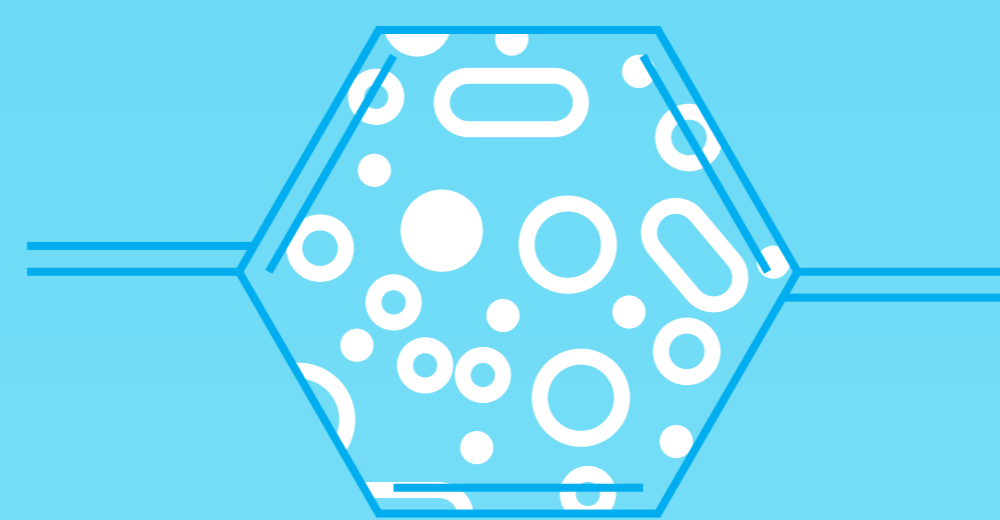
Wastewater treatment system with SUFRO® technology

Upstream biological system is virtually unprotected from loss of biomass



No loss of biomass as it is trapped in the SUF tank and recycled back to the system. Thus upstream biological system is protected

Limitation of pressurised UF in handling high suspended solids of > 25 ppm



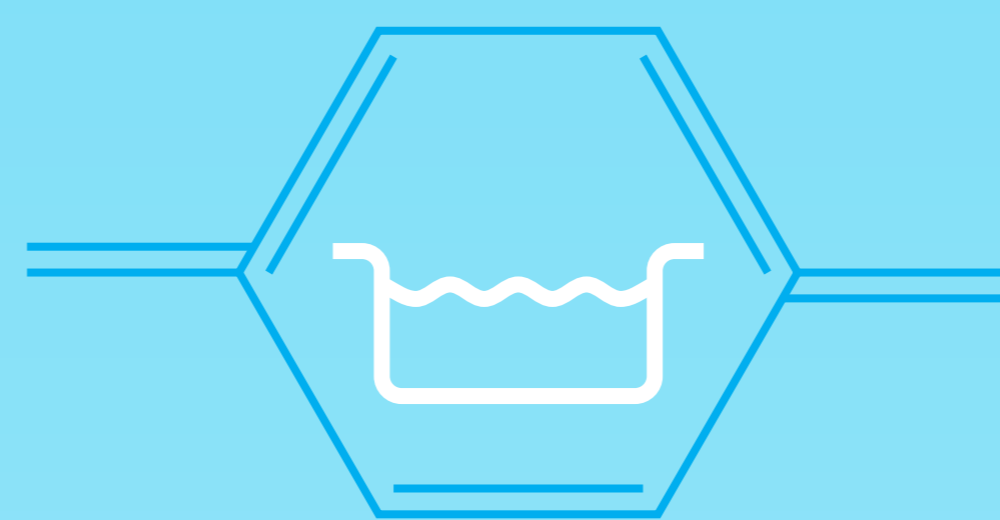
Withstands high suspended solids (up to 1000 ppm) owing to its construction and operation

Requires extensive pretreatment like sand, carbon, and bag filtration prior to UF



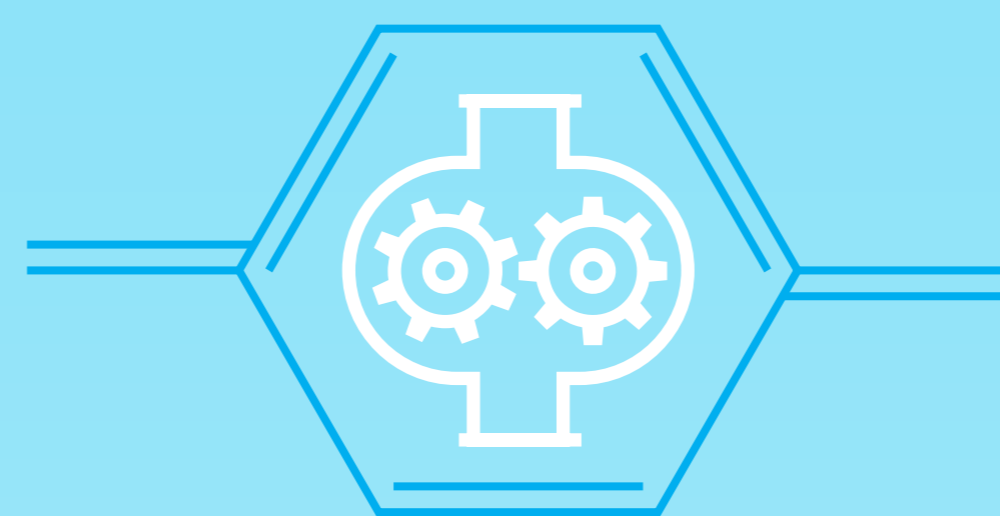
No pre-treatment like sand, carbon, or bag filtration required

Requires a large volume of backwash water



Requires 60% less backwash water

High hydraulic load on ETP as backwash and CIP water also needs to be treated in the plant itself



No additional hydraulic load on ETP (operating cost saving of 10-15%)

Requires large quantity of cleaning chemicals due to CIP tanks, related piping, and UF headers



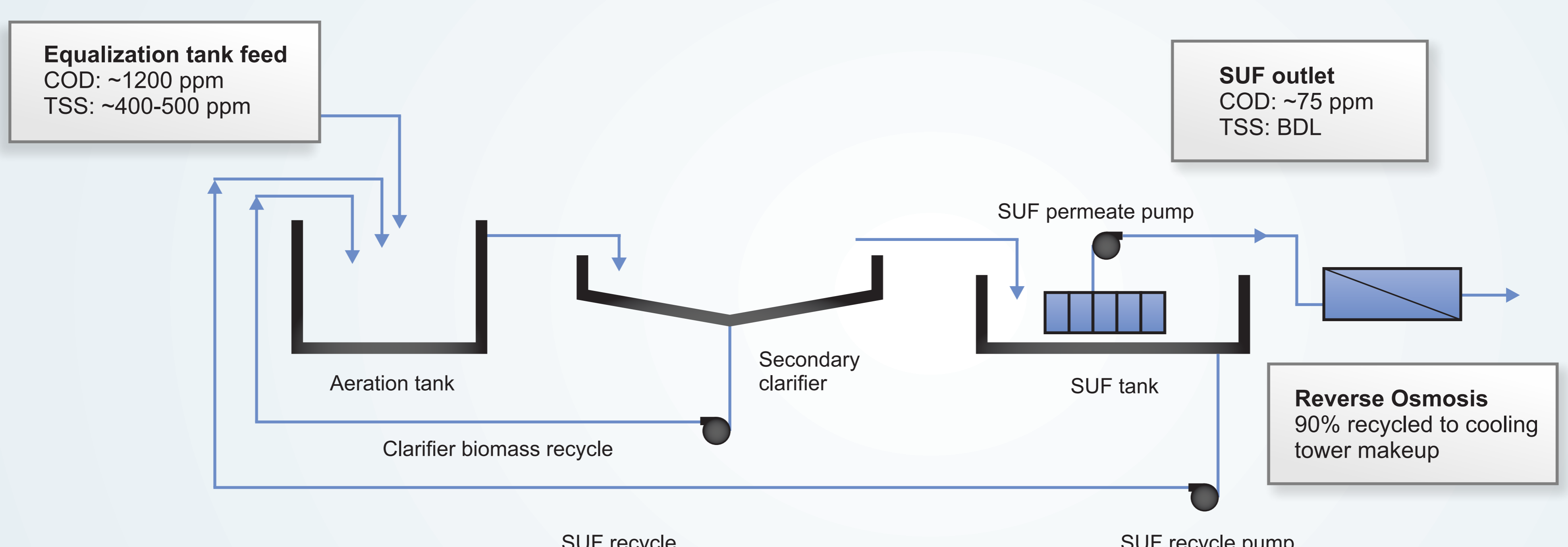
Requires 50% less cleaning chemicals

Large footprint



Requires 40% smaller footprint due to fewer pumps, tanks, piping, and absence of media and bag filters

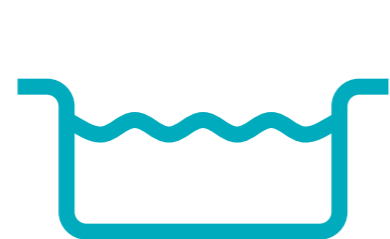
The SUFRO® system comprises of high quality submerged ultrafiltration membrane laminates with 38 nm pore size.



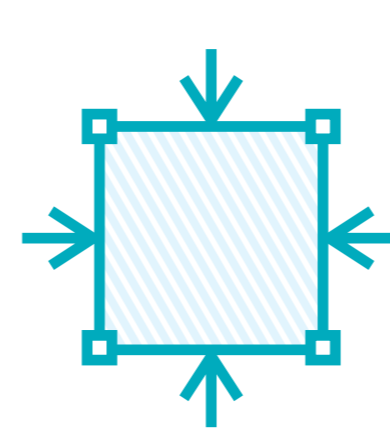
Benefits



40% saving in chemicals



60% less backwash water



60% saving in space



Cost effective, sustainable alternative



Low capex and opex