

# MEMBRANE BIOREACTORS (MBR)

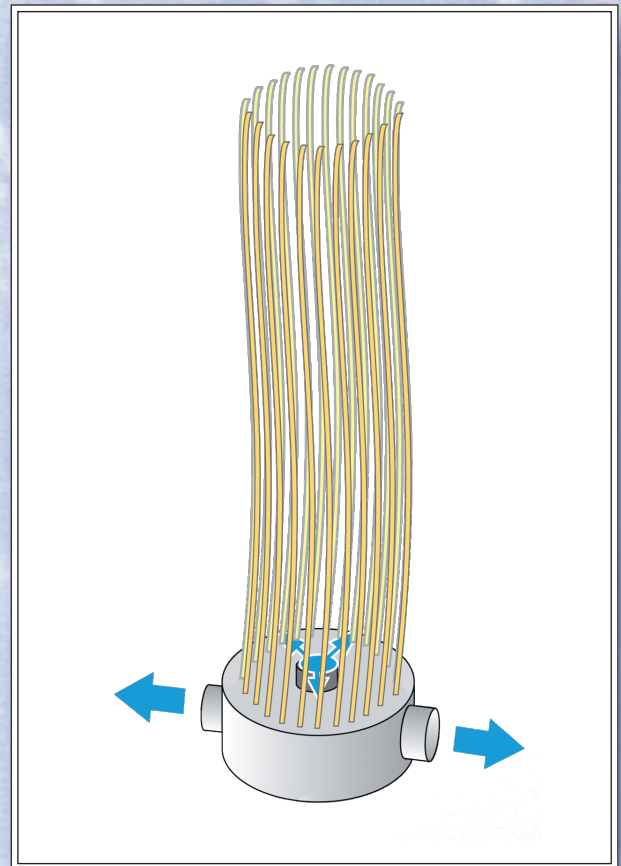
## IMPROVED WATER QUALITY

- **MEETS STRINGENT EFFLUENT REQUIREMENTS**
- **FILTERS OUT NEARLY ALL SOLIDS**
- **ALLOWS WASTEWATER REUSE**
- **AS PART OF A TREATMENT SCHEME, PROVIDES WATER FOR POTABLE REUSE**
- **PROVIDES WATER WHERE FRESH WATER IS IN SHORT SUPPLY**
- **REDUCES WASTEWATER DISCHARGE FEES AND FRESHWATER COSTS**

Membrane Bioreactor plants from Björks Rostfria AB suits small- and middlesized sites.

Björks Rostfria AB has designed a keyready MBR-plant placed in a 20-foot standard container prepared for pilotoperations anywhere in the world.

- **LOWERS CAPITAL COSTS**
- **CLARIFIER IS NOT NEEDED**
- **BIOLOGICAL STEPS CAN BE SCALED DOWN**
- **FOOTPRINT IS UP TO 50% SMALLER THAN CONVENTIONAL PLANT**
- **ALLOWS FOR EXPANDED CAPACITY WITHIN EXISTING BUILDINGS**
- **HIGHLY AUTOMATIZED, EASY TO OPERATE, FEWER OPERATIONAL PROBLEMS**
- **BULKING AND FLOATING SLUDGE PROBLEMS ARE AVOIDED**



PARAMETER	MBR	CONVENTIONAL TECHNIQUE
Solids (mg/l)	0	10 - 15
COD (mg/l)	<30	40 - 50
P <sub>total</sub> with fällningssteg (mg/l)	<0,1	0,8 - 1,0
Solids in biological step (g/l)	<20	<5

### WELL DOCUMENTED AND RELIABLE TECHNIQUE

Membrane technique allows flexible and good environmental solutions with less chemicals for the most difficult water treatments.

Björks Rostfria AB is the leading supplier of solid, efficient and compact water and wastewaterplants in Sweden.

Our plants are constructed and built with a minimum of carbon footprint today and in future use. They are also easy to operate with a minimum of operational supervision.