

*Canadian
Water & Wastewater
Technologies*



*Water & waste treatment
plants manufactured
in India*

Clean water - cleaner future!

Mixed wastewaters: advanced sewage and industrial wastewater treatment for reuse

BI Pure Water's **BI-MBR membrane plants** are the most reliable method to treat mixed influents. Solids, bacteria, parasites and viruses are effectively separated from water and the water can be reused for process water or irrigation. Solids remain in the bioreactor to be digested by bacteria or settle as sludge. The final stages of conventional wastewater treatment such as clarification and filtration are not needed; the BI-MBR produces reusable water in a small footprint with lasting performance.

- High biomass concentration (MLSS 8000-16000 mg/L) thus high loading rate and small footprint
- Resilient to changes or variability
- Consistent reusable effluent quality
- For both domestic and industrial wastewater treatment
- Low sludge yield so less sludge handling
- No backflush or chemical enhanced maintenance required
- Simple operation and maintenance



The **BI-MBBR Wastewater Treatment system** produces water suitable for release to the environment, or with the addition of a BI-UF (ultrafilter, shown below) wastewater can be reused.

The MBBR is recommended depending on the type of wastewater to be treated.

- High operation flexibility, simple operation and maintenance
- With more active surface area –4000 m²/m³–the BI-MBBR is much more efficient with a smaller footprint than other MBBR



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Difficult industrial wastewaters destroyed

The **BI-DAF** takes conventional DAF to the next step by achieving high rate of treatment and floatation.

- Much smaller footprint
- Uses much less power—only 2% of the power required by other DAF for its air generation
- Removes more solids; technology has advanced to remove many more small size flocs than previous DAF
- Floated solids dewatered more easily
- More flexible when shutdown and restart—takes less than a minute of warmup time for the generator and doesn't require operator intervention
- Applicable for both wastewater and water treatment (algae and TSS/turbidity removal)



The **BI-EO** Electrocoagulation-Electro-Advanced-Oxidation reactor has taken the synergy of several different technologies to deal with the hardest-to-treat (refractory) contaminants.

Compared with a traditional EC and/or conventional chemical coagulation process, our proprietary process is significantly more efficient at removing TSS, BOD, COD, oil/grease, heavy metals, and other pollutants.

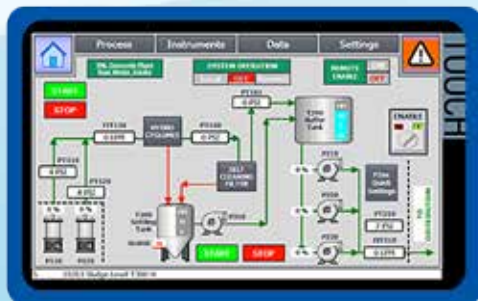
Modular Systems ~ add containers as needed

Robust systems in storm resistant containers

Engineered for efficiency and expandability

Built for the harshest environments

Designed for ease of operation



North American award winning design
India manufacture



About BI Pure Water

BI Pure Water has been in operation since 1995. Company headquarters are 35 minutes from downtown Vancouver, Canada, with sales and manufacturing branches in India, Phillipines, and China.

BI Pure Water's goal is to share Canadian clean water technologies for a clean future, worldwide. BI Pure Water brings the highest standards for long term efficiency and operation to all its treatment plants.

BI Pure has successfully design-built hundreds of customized potable water treatment systems across Canada and abroad, many of them with challenging raw water situations or extreme environments, using advanced technologies.

BI Pure Water's wastewater, chemical, mechanical, civil, and electrical engineers are versed in the latest technologies available for treating challenging wastewaters. Through support from Canadian government grants, we have also developed proprietary wastewater technologies for the hardest to treat contaminants.



BI Pure Water India

Tel: + 91 80-4001 6032
3/4, 1st Floor Maruthi Towers
Hosur Main Road
Madiwala
Bangalore 560068

BI Pure Water Canada

Toll free: 888-901-3111
#2 – 9790 190th Street
Surrey, BC, Canada V4N 3M9



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