Apex Water

Modular Wastewater Treatment Solutions

MBR & MBBR Package Plants

A range of package plant solutions designed to deliver high-performance treatment in a compact, fully integrated system tailored to your influent and effluent quality targets and site requirements.

Rongopai Marae MBR25 Package Plant, successfully combining traditional values with advanced technology.



Our plants offer cost effective installation and operation, while delivering high-quality treated effluent. Each corrosion resistant, self contained tank is modular and easy to deploy, making it the ideal solution.

- Multiple modular treatment options available
- Tailored to influent quality and effluent targets
- Compact, fully integrated wastewater treatment
- The MBR150 plant delivers high-efficiency by incorporating MABR treatment into the MBR process
- High-quality effluent suitable for disposal or reuse
- Effective bacteria and pathogen removal
- Fast delivery, installation and start-up
- Prefabricated, skid-mounted equipment
- Reduced on-site construction time and cost
- Sludge storage and treatment with odour control
- Easy to operate and maintain
- Service and maintenance agreements available



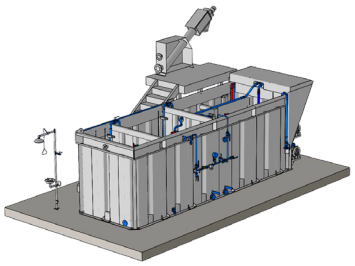
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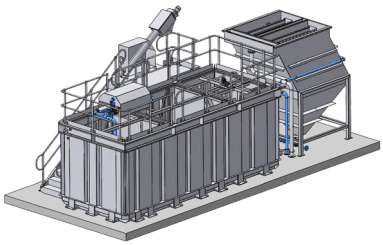
MBR Package Plants



Membrane Bioreactor suitable for discharge to water and other sensitive environments.

- High-quality discharge suitable for sensitive receiving environments or reuse
- Near-total removal of bacteria and pathogens
- Ideal for premium effluent quality, compact footprints and strict compliance requirements

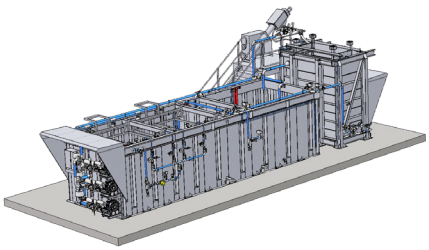
MBBR Package Plants



Moving Bed Biofilm Reactor suitable for discharge to land.

- Reliable performance with simple operation
- Flexible upgrades to meet future needs
- Ideal for industrial and municipal applications

MABR Technology Option

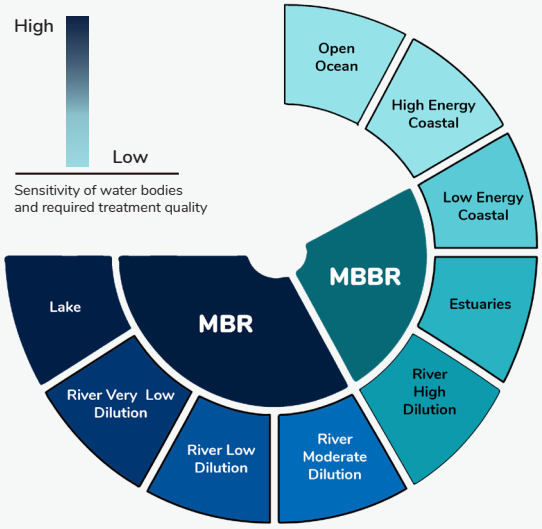


Membrane Aerated Biofilm Reactor suitable for discharge to water and other sensitive environments.

- Low-energy aeration and a compact footprint
- Excellent nitrogen reduction
- Ideal for retrofits and space-constrained sites

Selection Based on Receiving Environment

- Standardisation does not mean one size fits all
- All package plants are suitable for irrigation or land discharge
- Discharge to open ocean may require minimal treatment



Customised to Suit Your Site

- Flow-balancing tank
- Inlet screening
- Chemical dosing, if required
- Sludge storage / treatment
- Access platforms
- Odour control

Package Plant Specifications

Package Details	Capacity (m^3/day)	Population Equivalent	Length (m)	Width (m)
MBR-25	15-25	<140	6.6	5.3
MBR-50	30-50	<280	9.1	5.3
MBR-100	60-100	<555	12.3	5.8
MBR / MABR-150	100-150	<835	14.6	5.9
MBBR-50	40-75	<415	6.6	5.0
MBBR-100	120-220	<1,220	11.0	5.0
MBBR-200	200-350	<1,940	15.4	5.0

Median Expected Effluent Quality

Details	MBR	MBBR
cBOD	5 mg/L	20 mg/L
TSS	4 mg/L	25 mg/L
TP	1mg/L (by dosing if required)	1mg/L (by dosing if required)
TN	5 mg/L	15 mg/L

* Construction Materials: 304 stainless steel tank with galvanised or epoxy-coated carbon-steel frame.

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