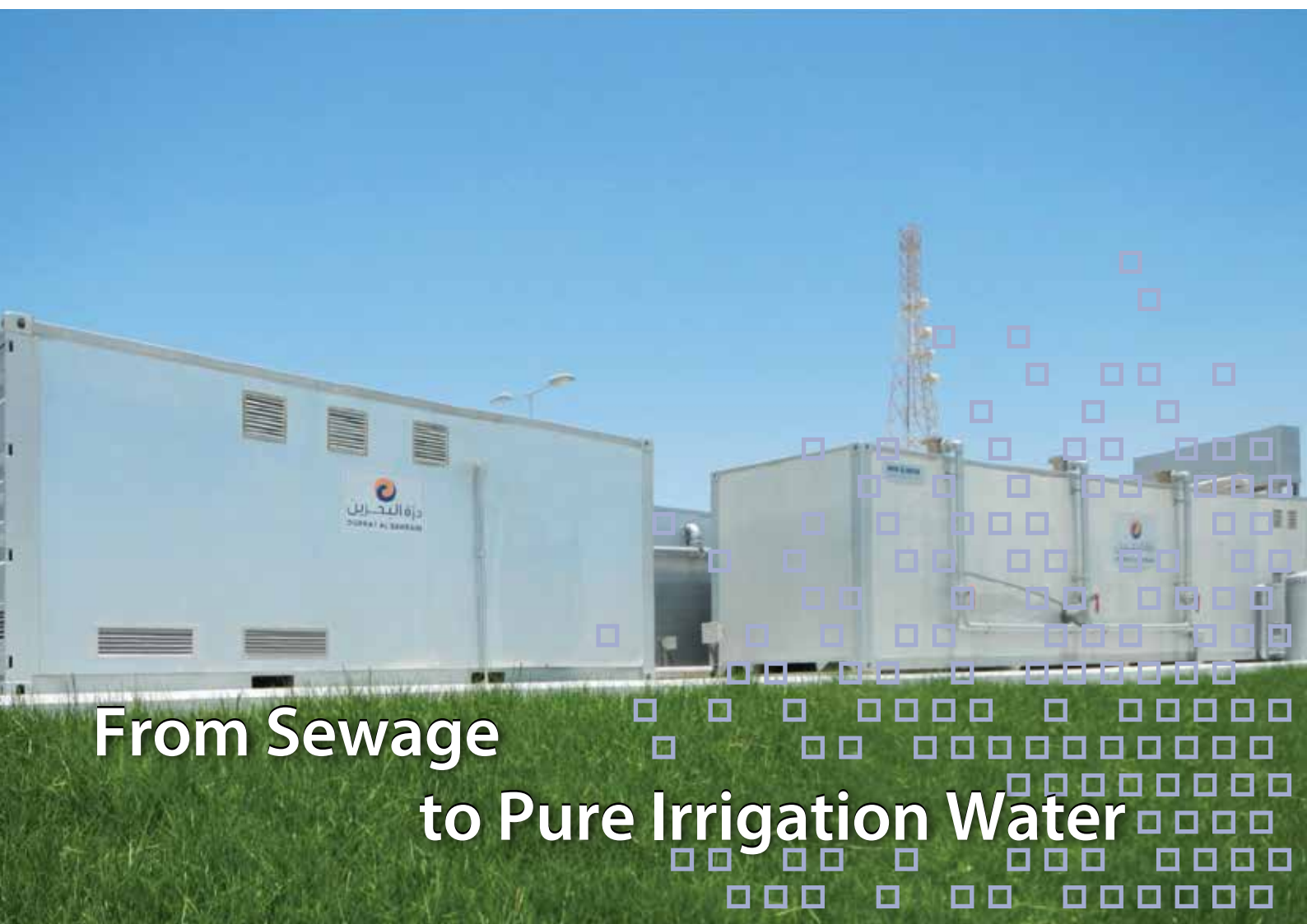


# MBR Package Plants for Sewage Treatment



**From Sewage  
to Pure Irrigation Water**



**Convenient Operation**



**Clean Effluent Water**



**Modular System**

## Wastewater Treatment with MBR Technology

Our system ensures reliable reduction or elimination of polluting load such as suspended solids, organic matter, nutrients and microorganisms within an efficient process combination of biological treatment and membrane filtration. The result is clean and high quality effluent water, which can be re-used as service water or discharged to (even sensitive) receiving waters.

### Scope of Supply for Complete Package Plants

MENA-Water offers complete MBR package plants, pre-assembled as containerized system (ISO sizes). This facilitates easy transportation, fast availability and straight start-up of the MBR plant. Included in our scope of supply are all main components such as:

- Stainless steel membrane tank with modules and aeration system
- Blowers for aeration tank and membrane scouring
- Permeate pump, backwash and disinfection system
- Process instrumentation, electrical control cabinet with PLC

For optimized performance of the entire plant, all necessary equipment for installation in the external structures is included in our scope of supply:

- Equipment for lifting station and mechanical pre-treatment
- Diffusers, pumps, mixers for biological treatment section
- Equipment for sludge, grit and clean water pumping

If desired, MENA-Water provides comprehensive support for installation, start-up and maintenance activities and can consult anytime via remote monitoring from back office.

Beyond our MBR scope of supply, we can also offer solutions for further plant equipment such as:

- Sludge treatment
- Odor control
- Mobile power generator
- Containerized operator room



**MBR Package Plant  
MW-MR150**

## Benefits of our MENA-Water MBR Package Plants

- ✓ Well-proven, complete and clean system solution
- ✓ Compact footprint combined with convenient accessibility
- ✓ Minimum works for site installation and civil structures
- ✓ Full automatic system operation with online monitoring facility
- ✓ Adaptable to future demand due to modular system

## Fields of Application

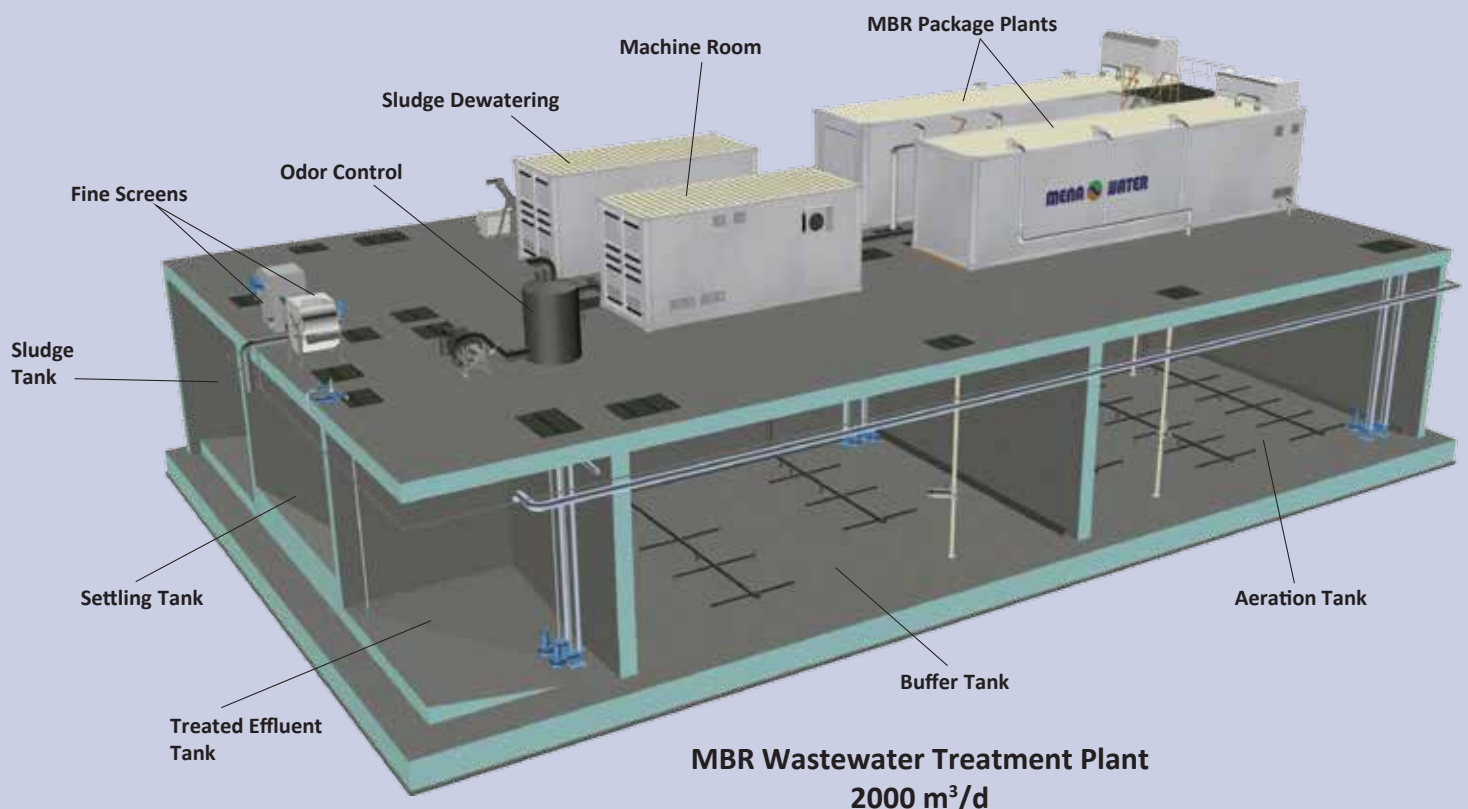
MENA-Water MBR package plants are capable to handle a wide range of capacities, based on standard sizes ranging from 10 m<sup>3</sup>/d to 1200 m<sup>3</sup>/d in single container. Higher capacities also possible by using multiple units. Our plants can be arranged custom-fit to serve your desired wastewater application.

### Typical applications are:

- Common municipal sewage treatment
- Independent sewage treatment system for stand-alone operation (hotels / business areas / housing complexes etc.)
- Sanitation solution for outlying locations
- Sanitation solution for close and densely populated residential areas due to minimized smell, dirt and footprint
- Process step for industrial wastewater treatment
- Pre-treatment step for reverse osmosis plants



Standard Sizes	Capacity m <sup>3</sup> /d	Population Equivalent	Approx. Footprint
MW-MR10	10	up to 85	8m x 3m
MW-MR25	25	up to 210	8m x 3m
MW-MR75	75	up to 625	12m x 4m
MW-MR150	150	up to 1250	14m x 5m
MW-MR300	300	up to 2500	14m x 6m
MW-MR450	450	up to 3750	16m x 7m
MW-MR600	600	up to 5000	20m x 7m
MW-MR1000	1000	up to 8300	25m x 7m
Other Sizes on Demand			



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Hydroflux EPCO is GRS Certified to the following standards

### OHSAS 18001 & AS/NZS 4801 SAFETY MANAGEMENT SYSTEM



Certificate Number: 47718001610007

Certificate Number: 4774801610007

### ISO 14001 ENVIRONMENTAL MANAGEMENT SYSTEM



Certificate Number: 47714001610007

### ISO 9001 QUALITY MANAGEMENT SYSTEM



Certificate Number: 4779001610007

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