

TECHNICAL INFORMATION

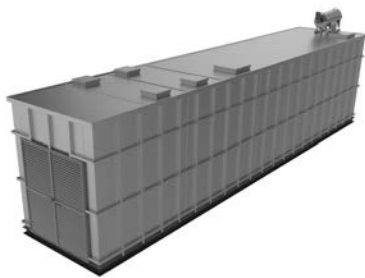
Prefabricated MBR SYSTEMS are available in the following configurations:

CONFIGURATION	OXIDATION	NITRIFICATION	DENITRIFICATION
MEMPACK-N	●	●	
MEMPACK-DN	●	●	●

* All MEMPACK Prefabricated units are delivered with fine screen.

Typical sizes of the standard MEMPACK units:

UNIT	LENGTH (m)	NOMINAL CAPACITY (m ³ /d)	WIDTH (m)	HEIGHT (m)
MEMPACK-N10	4.00	10	1.25	2.50
MEMPACK-N15	5.40	15	1.25	2.50
MEMPACK-N20	6.50	20	1.25	2.50
MEMPACK-N30	5.80	30	1.80	3.00
MEMPACK-N40	7.00	40	1.80	3.00
MEMPACK-N50	7.00	50	2.30	3.00
MEMPACK-N75	9.80	75	2.30	3.00
MEMPACK-N100	12.00	100	2.30	3.00



For further details please request the technical specifications and drawings.

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S.K. EUROMARKET LTD
Water & Wastewater Engineering
44, Spyrou Kyprianou Street
3rd Limassol Industrial Estate (Ipsonas)
P.O. Box 56550, 3308 Limassol, Cyprus
Tel. : +357 25568880, Fax : +357 25572518
info@euromarket-cy.com
www.euromarket-cy.com



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WATER & WASTEWATER ENGINEERING

MBR SYSTEMS MEMPACK
Prefabricated sewage treatment plants

MEMPACK Sewage Treatment Plants

MEMPACK MBR plants are complete Membrane Bioreactor packaged units in mono-block structures that have external dimensions equivalent to ISO containers. These units are easy to transport, install and relocate. They are ready for above ground installation and capable to treat municipal sewage or tailored to various industrial wastewater treatment applications.

MEMPACK package units are proprietary designs of Euromarket based on Membrane Bioreactor technology. MBR is a high rate purification process that combines aerobic biological treatment and micro-filtration through submerged membranes as a solids separation stage replacing the traditional secondary clarifiers.

The key benefit from using **MEMPACK** package units is the superior effluent quality that can be recycled and reused for irrigation or cleaning. In addition, the highly efficient membrane filtration allows maintaining high sludge concentrations in the reactors with values significantly higher than those obtained in conventional systems; this increases the system's purifying capacity in smaller process volumes with higher sludge age and consequently reduced in excess sludge production.

MEMPACK package units are offered in different models with respect to capacities and are complete systems fully equipped for automatic operation via a central control panel with PLC. The machinery compartment is integrated into the monoblock structure. Standard units are available in N (BOD oxidation and Nitrification) or DN (Denitrification, BOD oxidation and Nitrification) versions. **MEMPACK** package units can be tailored to be integrated into conventional plants as a replacement of the clarification and filtration stage.

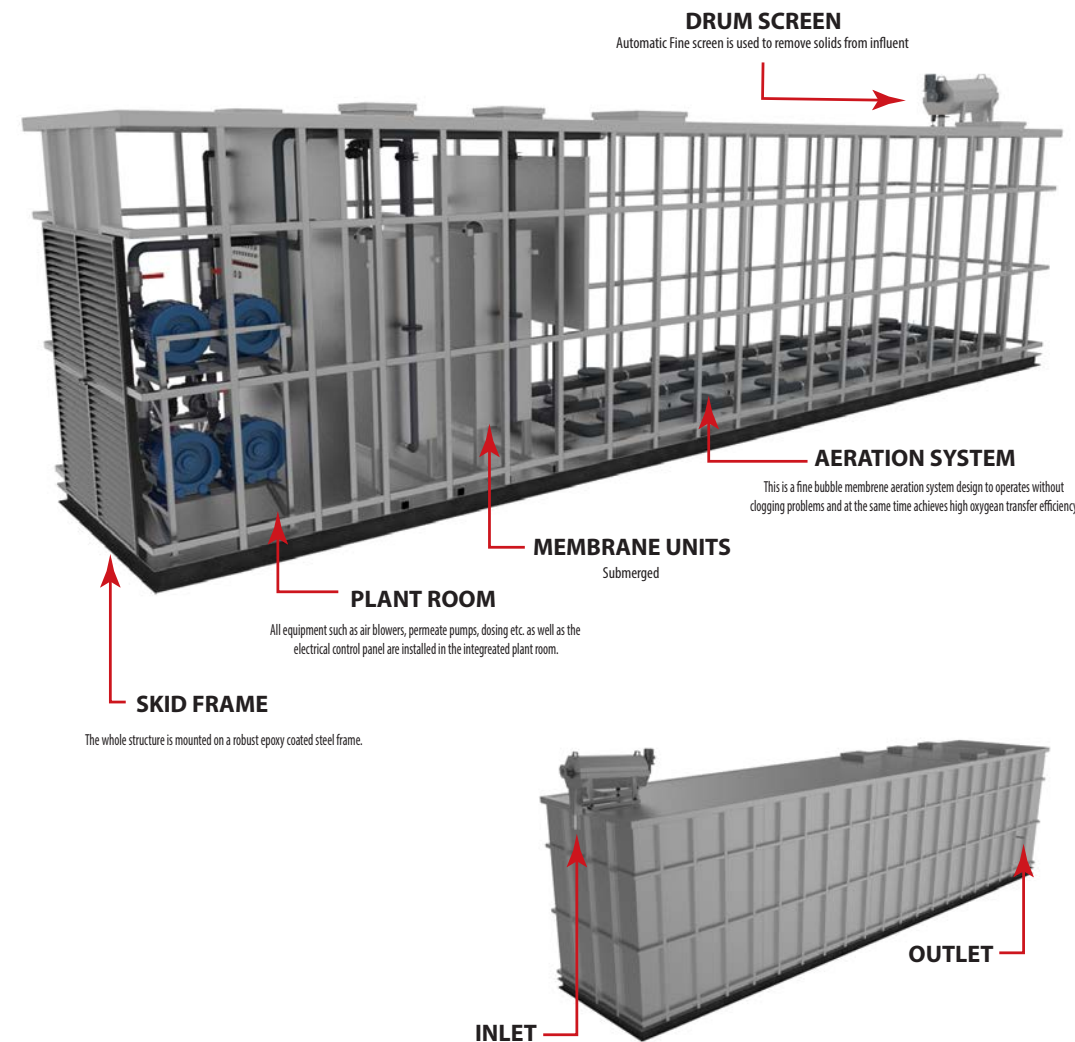
All tanks made of stainless steel AISI 304 (or AISI 316 optional). External walls may be double layered for heat insulated.

- Submersible membrane units structure made of stainless steel
- Membranes made of HDPE
- Aeration system made of stainless steel
- All wet parts made of corrosion free materials (i.e. stainless steel, UPVC, PE or other plastics)

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BENEFITS

- Excellent quality permeate (free from suspended solids, detergents, pathogenic microorganisms) that can be reused
- High sludge concentrations in the reactor
- Low excess sludge production
- Simple maintenance
- Extremely small footprint
- Odourless operation



CONSTRUCTION MATERIALS

- All tanks made of stainless steel AISI 304 (or AISI 316 upon demand). External walls may be double layer and/or heat insulated.
- Aeration system made fine bubble membrane diffusers with stainless steel pipe above water level and UPVC under water.
- All wet parts made of corrosion free materials (i.e. stainless steel, UPVC, PE or other plastics)
- Submerge Membranes are made of stainless steel frames made membrane material from Chlorinated Polyethylene