



***jacopa***   
CLEARLY WASTEWATER

**Jacopa MBR**  
Design Experience + Proven Technology

[jacopa.com](http://jacopa.com)



# Jacopa MBR Design Experience + Proven Technology



*Small footprint, high quality effluent, effective treatment*

Membrane Bio-Reactor (MBR) Systems have fast become the industry gold standard for wastewater treatment and reuse. Jacopa MBR technology meets the most stringent nutrient limits and produces the highest quality effluent all within a space efficient and cost effective package. It is also easy to retrofit providing a relatively simple upgrade for existing wastewater treatment systems.

For over 20 years Jacopa has proved its leadership in the MBR arena. The Company is able to provide new plants, with the capability to containerise if needed, extend and refurbish existing plants, upgrade existing plants and also to provide replacement membrane panels with expert technical support as required.



*Package MBR Plant*



*Wastewater reliably treated with Jacopa MBR*

- Jacopa has over 20 years experience in the design and build of MBR with numerous plants operational in the UK and Ireland treating municipal and industrial wastewater to a high standard on a reliable basis.
- Jacopa can design and build new plants, refurbish upgrade and extend existing plants to meet customers requirements.
- Jacopa provides a rapid response spare parts service including membrane panels.
- Jacopa delivers high level technical and process support to assist customers to optimise operational performance.
- Jacopa service and maintenance teams are available to maintain, service, install, upgrade 24/7.
- Jacopa has a vast inventory of membrane panels to provide quick response for replacement panels.
- Jacopa has a UK based in-house team able to work with customers for all their replacement membrane needs.

## Technical and Process Support

Jacopa provides high-level technical and process support to help its customers optimise the operational performance of their plant. Our highly experienced installation, service and commissioning teams are available to offer design and build, installation, upgrades, maintenance, service, extensions and refurbishment of plants.



## The Heart of the Matter - *Jacopa Membrane Panels*

In recognition of the need for a robust, efficient and commercially attractive option, Jacopa has introduced its own flat sheet membrane panels. The new membranes have completed trials at operational treatment works in the UK, and has at least matched and often exceeds the performance of established flat sheet installations.



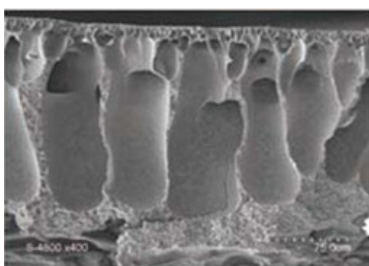
The panels are manufactured using PVDF with an asymmetric structure, which enables excellent flux rates and exceptional resistance to fouling. They can be cleaned using a simple chemical process, and maintenance and replacement are also straightforward.

The Jacopa membrane is firmly welded to a high intensity support frame, resulting in a stable membrane structure that is resistant to damage and tearing. As a result, the company is offering a three-year warranty against manufacturing defects.

With a pore diameter of less than  $0.1\mu\text{m}$ , the membranes provide an excellent effluent turbidity of under  $5\text{mg/l SS}$  or less than  $0.1\text{NTU}$ . The membrane also has excellent flux characteristics, with pure water permeability (PWP) flow rates of  $0.4\text{m}^3/\text{m}^2/\text{day}$  to  $0.6\text{m}^3/\text{m}^2/\text{day}$ .

### Excellent fouling resistance

The Jacopa super-micro membrane has an asymmetric structure that has been specially developed to improve durability, performance and the ability to resist fouling. Air-induced flow efficiently reduces the fouling layer on the membrane surface and prevents the ingress of larger particles of pollutant.



## Membrane Module

Permeate Tube

Rubber Insert and Steel Plate

Manifold

Jacopa Flat Sheet Membrane

Guide Panel

Diffuser Case

Diffuser Pipe



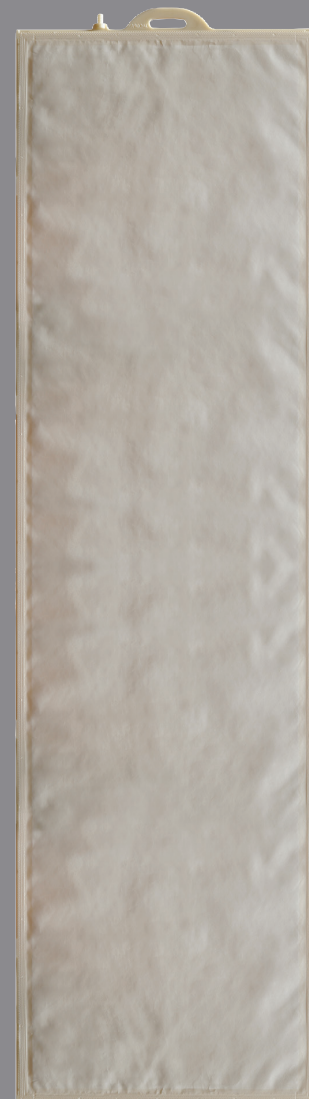
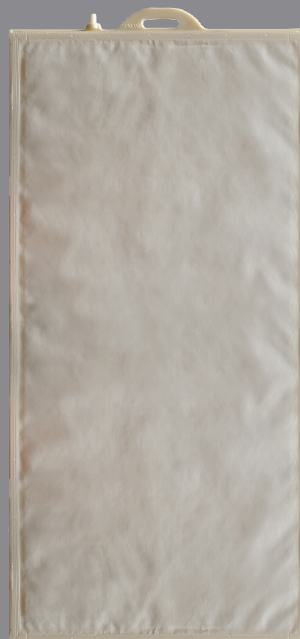


## Available Sizes

Two sizes are available, the model 80 (490mm W x 1000mm H x 7mm D) and the model 150 (490mm W x 1750mm H x 7mm D), which weigh just 3.2kg and 5.5kg respectively. These are designed to suit the vast majority of existing installations in the UK, and can simply be dropped in as replacement panels for



any compatible existing flat sheet based MBR. In fact, around 90% of the current plants in the UK are built to house membranes of these two popular sizes.



## Refurbishment

Jacopa's highly popular MBR refurbishment service allows customers to extend the life of their valuable assets, a vital need at a time when cost-effective delivery is key. Refurbishment, including replacement membranes, rebuilding or upgrading equipment and plant can often be the most cost effective option.

Jacopa can provide an objective assessment of cost and performance benefits of replacement versus refurbishment, rebuilding or upgrading. Refurbishing and upgrading existing MBR plant enables customers to quickly increase capacity to cope with population growth, or increased production volumes and improve performance to meet tighter legislation.



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## Here to Help

Our highly-regarded support framework is an integral part the Jacopa offer. This includes the provision of spare parts, including membrane panels, for both new and existing treatment works.

And an inventory of several thousand membrane panels in our central UK warehouse enables us to respond swiftly to requests for replacement panels. Altogether you'll find Jacopa technologies are about much more than excellent value and superior performance; there's a built-in commitment to ensuring clients are fully supported throughout the lifetime of its solutions.

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