

W-Series

Ultrafiltration Modules





Concentrate port



Liqui-Flux® Module "Economy and Reliability in Ultrafiltration"

Membrana manufactures one of the largest UF modules of its kind. The new Liqui-Flux® Filtration module uses cutting-edge technology for inside-out ultrafiltration with large effective membrane area. The durable module design and the Variable Connect Concept - VCC™ represents an advancement in ultrafiltration technology today.

Distinct Features:

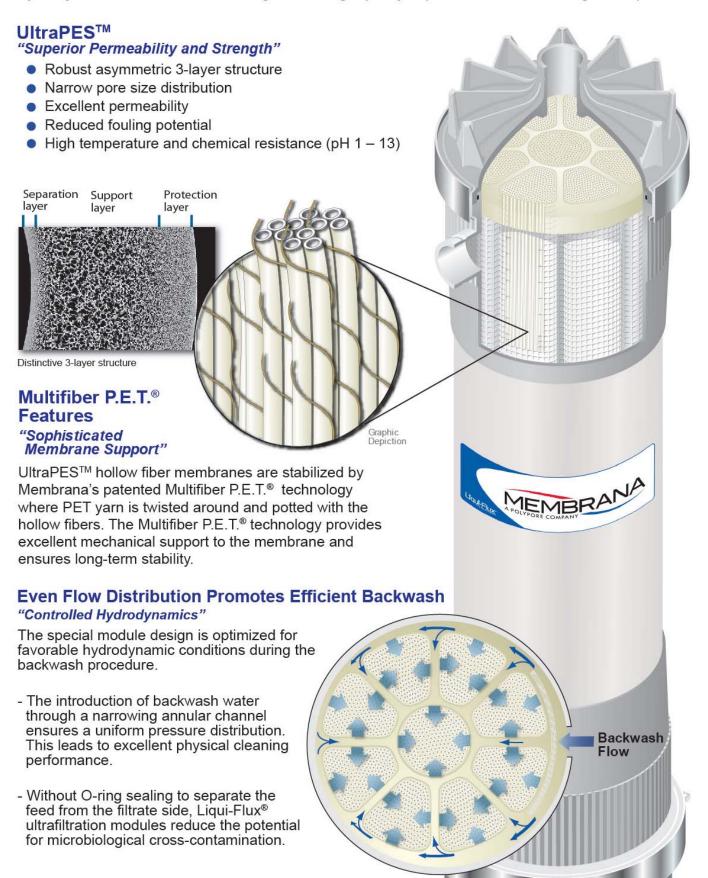
- Durable quality module design For long-term integrity
- Large effective membrane surface area
 One of the largest of its kind
- Proven UltraPES™ membrane inside For superior permeabilty and strength
- Controlled hydrodynamics
 For efficient backwash cleaning
- 12-inch robust PVC housing With operating pressures up to 6 bar
- Variable Connect Concept VCC[™]
 Easy and flexible system integration for several operating modes: standard, low installation height, or small footprint
- Multifiber P.E.T.® Technology
 The sophisticated membrane support

Application Areas for Liqui-Flux® Water Modules:

- Drinking water treatment
- Pre-treatment to reverse osmosis
- Process water filtration
- Waste water polishing

Sustainable Module Design

A structured membrane arrangement inside a 12-inch housing leads to well defined liquid flow hydrodynamics. Membrana has designed this high quality Liqui-Flux® module for long-term operation.



The Variable Connect Concept - VCC™

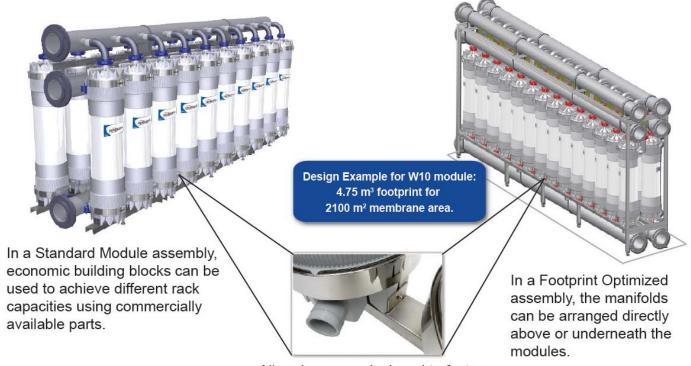
"Without Limiting Your Engineering Flexibility"

The Variable Connect Concept provides several options for assembling the modules.



The standard module setup with radial feed and axial concentrate ports support cross-flow and dead-end operating modules without limiting rack configuration.

Liqui-Flux® modules can be supplied with a radial concentrate port, which is ideal for installations where there are height restrictions. Liqui-Flux® modules can be assembled with an axial feed port to allow for a compact system design.



All endcaps are designed to fasten the entire module to a skid or to connect it to other modules.

Membrana - The Market Leader in Membrane Technology

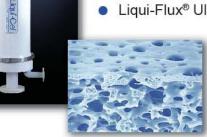
Membrana has been a technological leader in membrane development and manufacturing for over 40 years. Our experience spans over 20 years of module development and manufacturing. Employing more than 500 people and having an annual turnover of more than 150 MM USD, Membrana's large scale production facilities ensure the highest level of quality. With an annual output of several million SQM per year, Membrana is one of the largest membrane manufacturers in the world.



Extensive R&D activities and facilities promote continued development and advancement of Membrana products and technologies.

Our primary company-wide product focus includes:

- Hollow fiber and flat sheet membranes for medical applications
- Flat Sheet Microfiltration Membranes for process filtration
- Liqui-Cel® Membrane Contactors for degassing
- Liqui-Flux® Microfiltration Modules for beverage clarification
- Liqui-Flux® Ultrafiltration Modules for water treatment



We offer our technical know-how and experience to support our customers from the decision making process through the start-up and optimization steps of integrating Liqui-Flux® modules into the end user's process.

Membrana Support Services include:

- Laboratory and analytical testing service
- Access to ultrafiltration test equipment





Waste Water Re-use



Pre-treatment to Reverse Osmosis



Drinking Water Treatment