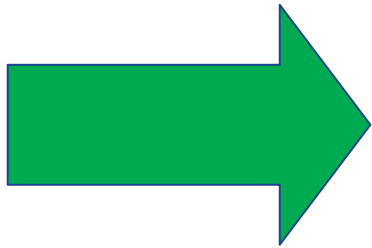


# ZeeWeed 500D... New Technology for Pioneering Plants



# Replacements and Upgrades



The new ZeeWeed 500D cassette is designed to replace original 500A, B & C units.

The new product upgrades a plant to the latest membrane technology, provides operational benefits, and offers new options for membrane serviceability.



At 1/3 the size of a standard 500D cassette, the new 500D also provides new options for immersed UF membranes in smaller capacity water and wastewater treatment plants.

# New ZeeWeed 500D

## Ideal for New Plants, Retrofits and Replacements

- Compact sizes for flexible design and lower flow options
- Full- and reduced-height options available
- Enables upgrades to the latest ZeeWeed UF technology offering:
  - Up to 40% increase in treatment capacity
  - Up to 75% reduction in blower energy consumption with patented 10/30 cyclic aeration



# Advanced Fiber Technology

- Reinforced UF, hollow-fiber
- Nominal pore size 0.04  $\mu\text{m}$
- Low fouling membrane for long-term sustainable flux
- Up to 25% reduction in cleaning chemicals compared to 500A, B, C

# Results from Recent Replacements

# Creemore Wastewater Treatment Plant Creemore, ON, Canada

Nearly a decade ago the Creemore WWTP was commissioned with the first generation of ZeeWeed 500 membranes.

The 227,000 gpd-MBR plant treats municipal wastewater and high-BOD wastewater from a local brewery.



# Replacement with 500D Saves Money

- 500D enabled operation at higher flux and provides potential expansion of treatment capacity by approx. 30%
- Plant is now capable of treating approximately 295,000 gpd (average daily flow)
- Increased capacity means plant can defer \$1.5MM expansion



# Energy Efficiency

- 500D-16 offers the latest, optimized aeration grid
- Minor piping adjustments enable 10/10 or 10/30 cyclic aeration
- Can reduce blower power consumption by up to 75% vs. continuous aeration



# Olivenhain Water Treatment Plant Escondido, CA, USA

Olivenhain WTP was one of the first large-scale ZeeWeed UF plants. The 34-MGD facility was commissioned in June 2002 with the second generation of ZeeWeed 500 membranes.



# Simple Replacement Process

- New 500D cassettes replaced the original 500B units in 2009
- 500D cassettes fit into existing tanks
- Only minor changes to piping required



# Operational Benefits

- Enhanced serviceability; individual membrane modules can be removed for inspection and maintenance without disassembling cassette
- 30% increase in membrane surface area over original units



# For more information...

## Membrane Replacements

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## New Plants & Retrofits

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