

# ZW1000 NGC

## new generation cassette ZeeWeed\* immersed ultrafiltration

### description and use

Historically, immersed ultrafiltration (UF) for pretreatment in a desalination system may have been cost-prohibitive. Large desalination systems would rely on conventional pretreatment systems that produce a lower quality feedwater to the desalination reverse osmosis (RO) trains. Not anymore.

The ZW1000 Next Generation Cassette (NGC) uses a unique design to provide a low cost UF option with standard building blocks to fit any tank size while providing the smallest UF footprint in the industry. Superior water treatment is now not only affordable but flexible to your specific plant requirements. When coupled with the ZW1000-SW membrane, this cassette is ideally suited for RO pre-treatment for brackish water and seawater applications.

Compared to granular filter media, ZeeWeed membranes produce superior water quality and are virtually unaffected by variable raw water quality – all at a cost comparable to conventional filtration technology.



Figure 1: ZW1000 NGC

### why ZW1000-NGC?

The ZW1000-NGC offer several benefits to our customers:



**Reduced Costs**- 50% lower cassette costs



**Smaller Footprint** – 25% reduction in membrane tanks compared to previous ZW1000 cassettes



**Simplicity** – modular building blocks; 50% fewer tank connections, supported by tank floor with separate aeration grid



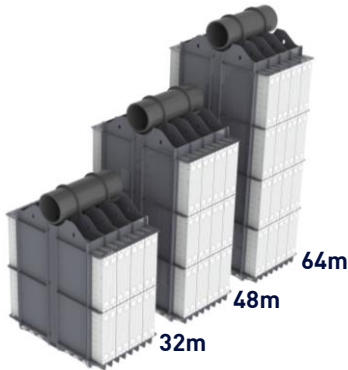
**High Quality Effluent** – same high quality effluent expected



**Energy Savings** – 25% lower aeration energy

## footprint intensity

Product	Footprint Intensity (m <sup>2</sup> / m <sup>2</sup> )
GE ZW1000 NGC	2,800
Submerged competitors	1,200
Best in class pressurized	700



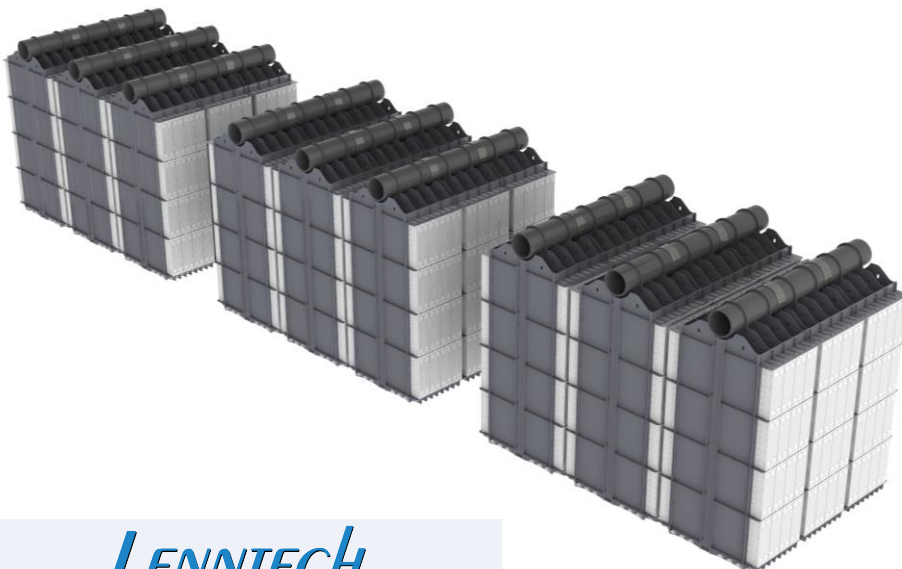
Range of cassette sizes provide versatility



Multiple chains form a single train



Chain of cassettes provides modularity



Multiple trains to build your plant

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