

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



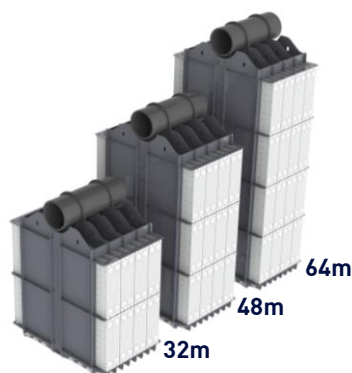
High Quality Effluent – same high quality effluent expected



Energy Savings – 25% lower aeration energy

footprint intensity

Product	Footprint Intensity (m ² / m ²)
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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