

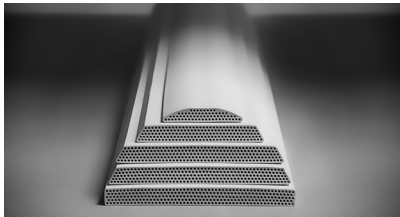
CM-151™ CERAMIC ULTRAFILTRATION MODULE

Nanostone Water's CM-151 ceramic module is the next generation membrane for industrial and municipal water treatment and water reuse. It comprises ceramic materials in a unique design and world class manufacturing technology to provide the most reliable, robust, and easy to operate membrane with the lowest total cost of ownership.

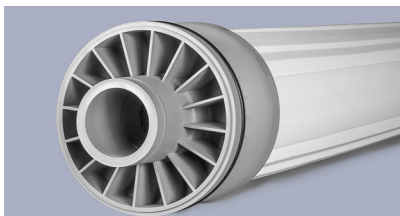
Duplex 2205 permeate side port for high corrosion resistance, strength, and long life



24 m² (258 ft²) of active surface area α -Al₂O₃ ceramic membrane



Patented segmented design optimizes hydraulic flow during backwash to improve performance



REJECT



FEED

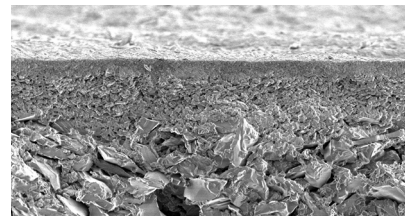
Overall vessel height 1.9m (75-inch).
Maximum width 250mm (9.8-inch)
Shipping weight 95kg (209lb.)

PERMEATE / BACKWASH

7 Bar, 55°C rated fiberglass reinforced plastic (FRP) vessel for high strength and long life



Nominal 30 nm (0.03 micron) membrane pore size rating through specialized ceramic nanotechnology coating



The robustness and performance of the CM-151 module contribute to significant cost efficiencies in both retrofit and new water treatment systems. In addition, the process design and certifications make the CM-151 easy to implement and operate.

- Best in class life cycle cost
- Easily retrofit existing PUF systems
- Independently tested and certificated for ANSI/NSF 61 & 372 & 419 for drinking water



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Drinking Water Treatment Plant 1, South Dakota, USA



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Drinking Water Treatment Plant 2, South Dakota, USA



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Surface Water Treatment for Boiler Feed Water, China



▲
Drinking Water Treatment Plant 3, Texas, USA

Widely recognized for overall robustness, the Nanostone ceramic membrane module offers numerous advantages over polymeric membranes including:

- 3-10 times higher flux giving higher productivity and a lower footprint
- >50% backwash volume reduction to lower water consumption and decrease costs
- 2-10 times longer life to lower the total cost of ownership of the system over its lifetime
- Reversible fouling from the hydrophilic ceramic surface which cleans more easily
- High chemical resistance allowing rigorous cleaning/flexibility
- No fiber breaks....minimal integrity risk with low maintenance