

Ultramarine[™] Smartrack[™]

pretreatment of seawater with Pressurized Out/In ultrafiltration modules

odesalination



flexible integration

a standardized, industrialized system for easier installation

savings the high performance of ultrafiltration at controlled costs

SDI (Silt Density Index) < 3 100% of the time

increase desalination scalability with interchangeable ultrafiltration modules

the only universal rack with interchangeable ultrafiltration modules

Ultramarine[™] Smartrack[™] is a rack, capable of accomodating ultrafiltration membrane modules of different brands, presenting varied dimensions as well as different connections.



Ultramarine[™] Smartrack[™] technology

The Ultramarine[™] Smartrack[™] rack can accommodate the 4 principal module supplier brands found on the market: ASAHI, DOW, GE, TORAY and inter-piping to allow switching the filtrate/ retentate exits.

Ultramarine[™] Smartrack[™] is adaptable to any plant size as it is able to handle a capacity of 200 to 22,000 m3/day per rack.

The Ultramarine[™] Smartrack[™] system functions on an Out/In principal (filtration from the exterior towards the interior of the membrane) in order to treat directly settled or floated water.

what it can do for you

• strategic and economic interest:

- freedom to choose suppliers and membranes;
- control ultrafiltration renewal costs;

- return on investment: the installation of new membranes requires no modifications to the installation.

• flexible integration:

pre-assembled, rack elements are easy to transport;
standardized, industrialized system that reduces delivery and start-up time.

• ease of operation:

- easy maintenance: disposition of modules in staggered rows to simplify accessibility;

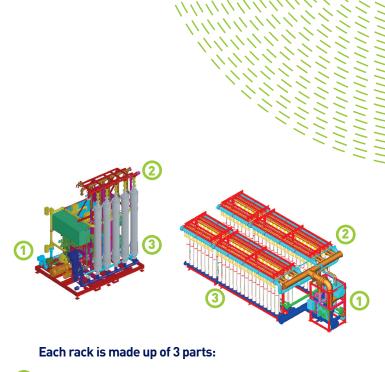
- all equipment (valves, pumps and electrical connections) are on the front;
- data logging;

- remote monitoring and data transfer allowing trend analysis.

o health and safety:

- ultrafiltration constitutes an excellent bacteriological barrier;

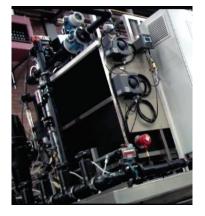
- regular verification of fibers using an automated integrity test.



- 1 The facade (called the "Valve Rack") where the valves, instrumentation and electrical connections are located.
- (2) "Inter-piping" or the 3 networks that connect to the rack.
- 3 The "Module Rack" where the ultrafiltration modules are attached.







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