

Tap Water Treatment with Aquaporin Inside®

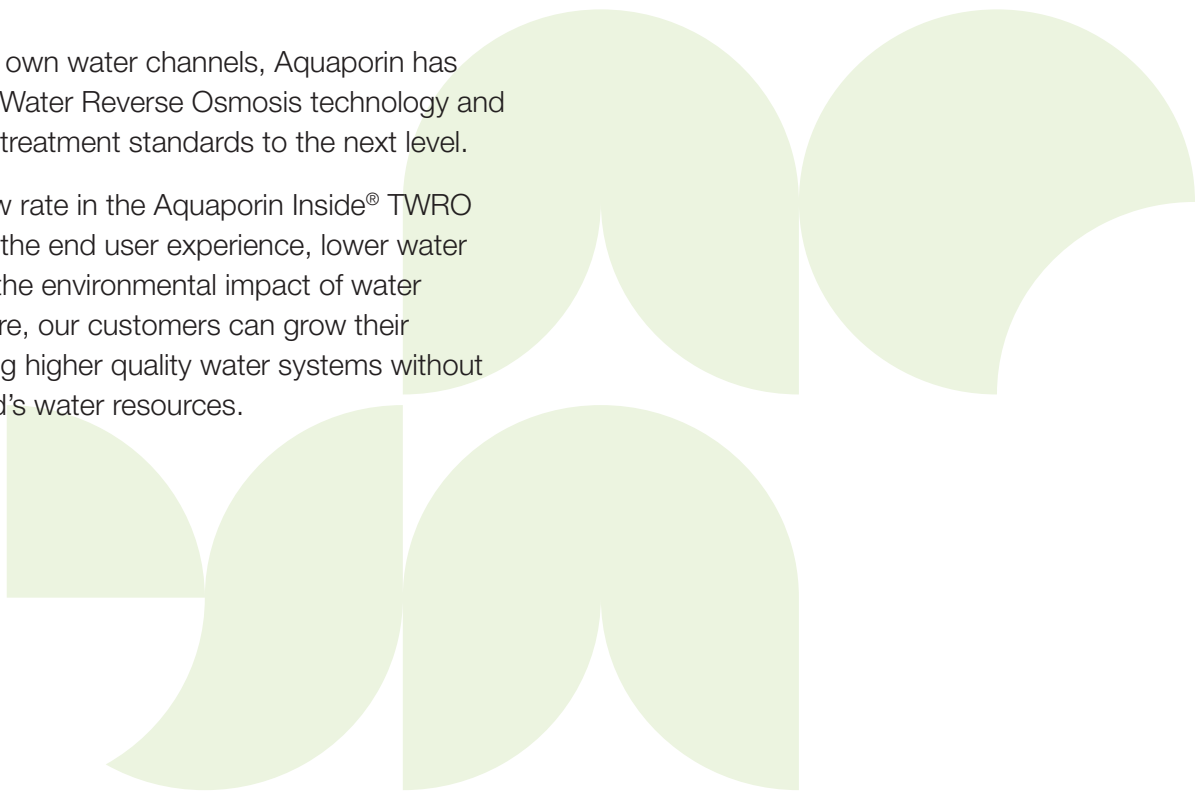




WATER MADE BY NATURE

Thanks to nature's own water channels, Aquaporin has revolutionized Tap Water Reverse Osmosis technology and has pushed water treatment standards to the next level.

The high water flow rate in the Aquaporin Inside® TWRO membrane refines the end user experience, lower water cost and reduces the environmental impact of water treatment. Therefore, our customers can grow their business by offering higher quality water systems without depleting the world's water resources.





KEEP THE MINERALS WHERE THEY BELONG

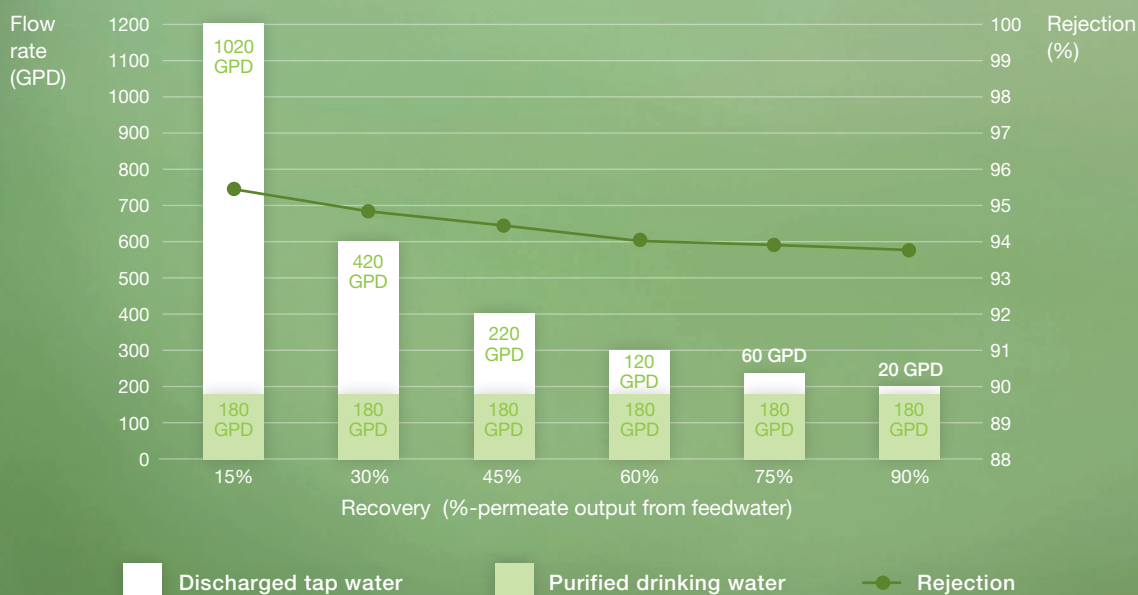
Aquaporin Inside® TWRO membrane is your sustainable solution of ensuring sufficient nutrition intake of minerals directly from your tap water. Aquaporin supports maintaining the taste and mineral content of natural water sources while leaving out viruses and bacteria.

High water recovery with the Aquaporin Inside® TWRO membrane will ensure that you get sufficient magnesium and calcium minerals in the drinking water directly from your tap.

Performance at different recovery levels

Aquaporin Inside® TWRO1812-175 can reach higher water recovery and continuously produce the same 180 GPD water flow without increasing pressure.

Test conditions: 250 ppm NaCl at 25°C, 60 psi pressure.



HIGH WATER RECOVERY

Aquaporin Inside® TWRO membranes support water purification with high recovery of feed water, making Aquaporin Inside® technology the most sustainable solution to residential and commercial water purification. High recovery membrane technology helps to refine the end user experience by preserving some of the natural minerals in the water, lowering water costs and reducing the environmental footprint of water treatment.

What is water recovery?

The term “water recovery” refers to a percentage of clean drinking water recovered when treating the feed water in a water purification system. Conventional membrane elements reach only 15% water recovery, while 85% of the water goes to the drain.

Why is it important to recover more water from your water source?

Every time water is being delivered to a household, we are depleting the natural water resources. To lessen the human impact on nature, it is essential to utilize as much water as possible once delivered to a household. Moreover, you pay for the water that is being delivered to your household, so you should care about how much water you use.

Why is 15% recovery the norm?

Increasing the recovery means pressing more water through the water purification system which results in decreased membrane lifetime.



Water purification using aquaporins -
Nature's very own water channels



Preserve natural minerals and taste
in the water



High water flow for high recovery and
sustainable water treatment



	Permeate flow rate		Stabilized salt rejection (%)	Applied pressure (psi)	Recovery (%)
	GPD	L/h			
TWRO1812-175	175	28	96	60	15
TWRO3012-600	600	95	96	80	40
TWRO4040	2700	425	98	100	15

The stated product performances for TWRO1812-175 and TWRO3012-600 are based on 250 ppm NaCl solution at 25°C / 77°F, and TWRO4040 is based on 500 ppm NaCl solution at 25°C / 77°F after 30 minutes. Individual element permeate performance may vary \pm 15%.

The Aquaporin Group

HQ, PRODUCTION AND R&D IN DENMARK

Aquaporin A/S is located outside Copenhagen, Denmark with built-for-purpose labs, pilot production and a newly installed state-of-the-art large-scale membrane production line.

KEY COMPONENT PRODUCTION IN DENMARK

The core aquaporin proteins are produced in Denmark only, for use by the entire Aquaporin group.

AQUAPORIN IN SPACE

The Aquaporin Space Alliance Joint Venture with Danish Aerospace Company ApS tests and markets Aquaporin Inside® membranes for the Space Industry, working with both the European and American space agencies.

LOCAL PRODUCTION AND PRESENCE IN CHINA

The Aquapoten Joint Venture with Poten Environment Group produces and commercializes Aquaporin Inside® membranes in China.

R&D & BUSINESS DEVELOPMENT HUB IN SINGAPORE

Aquaporin Asia located in Singapore's water technology hub handles both membrane development and pilot production as well as business development and sales activities for Asia outside China.

Aquaporin A/S
Nymøllevej 78
2800 Kongens Lyngby
Denmark

Phone: +45 8230 3082
sales@aquaporin.com
www.aquaporin.com

Aquaporin Asia Pte Ltd
1 Cleantech Loop, #02-14
Cleantech One
Singapore 637141

Phone: +65 6268 6343
sales@aquaporin.asia

Aquapoten Company Ltd.
12A Shougang International Trade Tower
No. 60 Xizhimen North Street
Haidian District, Beijing, 100082, China

Phone: +86-10-52408461
business@aquapoten.com
www.aquapoten.com

