



U-PUR™

The 3-in-1 UPW polishing reactor

The most compact metal-free reactor for UPW production
(UV-Oxidation / Catalyst / Polishing Mixed Bed)



Bringing water to life®

U-PUR

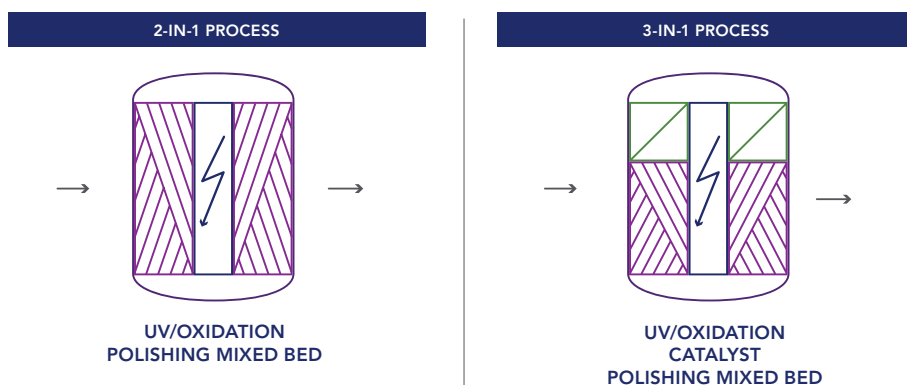
Designed and manufactured to meet challenging applications such as semiconductors, medical, pharmaceutical and all other industrial applications that exclusively require Ultrapure Water (UPW).

Conventional polishing systems include standalone UV's constructed of electro-polished stainless steel. The combination of the UV reactor and the polishing resin vessel enables the elimination of a potential source of contamination (oxidizable particles) within the polishing system.

This unique metal-free reactor also combines multiple UPW polishing steps for the removal of TOC and H₂O₂ traces. The 2-in-1 process step can easily be upgraded at any time to a 3-in-1 by adding a catalyst resin without further modification.



Innovative polishing process



Technical specifications

U-PUR		08	40
VESSEL DIAMETER	mm (inch)	460 (18.1)	1'000 (39.4)
HEIGHT (MAX.)	mm (inch)	2'500 (98.4)	3'300 (130)
TREATMENT CAPACITY	m ³ /h (gpm)	3 ... 10 (13 ... 44)	15 ... 50 (65 ... 220)
SERVICE PRESSURE (MAX.)	bar (psi)	6 (87)	
NUMBER OF UV LAMPS (185+254)		3	15
UV POWER	kW	1	5
ION EXCHANGE RESINS			
MIXED BED OvivUP® – M020	l (gal)	100 (26.4)	500 (132)
CATALYST CatOX™	l (gal)	60 (15.9)	300 (79.2)

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Ovivo is a global leader in water solutions for the semiconductor industry and stands as a founding member of the Semiconductor Climate Consortium (SCC), a pioneering initiative dedicated to fostering climate progress within the industry.

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Key features



STANDALONE SOLUTION

All process functions managed locally



SMALL FOOTPRINT

Compact design



ULTRAPURE WATER COMPOSITION

TOC < 1 ppb
H₂O₂ < 1 ppb



LOW PRESSURE DROP

Less friction,
simplified process



ENERGY EFFICIENT

Power consumption optimization



USER-FRIENDLY

Easy to operate,
designed to facilitate servicing



SHORT LEAD TIME

Less engineering,
more flexibility

**PATENT
PENDING**

UPURBRO-09.2024