

Vantage™ Mobile Ultrapure Water System

FOR MICROELECTRONICS AND HIGH PURITY WATER APPLICATIONS

TURNKEY SOLUTION FOR A GROWING MARKET

The Vantage™ mobile ultrapure water (UPW) system is a robust water treatment solution for short-term high purity water applications. This compact mobile system was developed to address the increasing need for bridge solutions in the Microelectronics industry. It can provide temporary makeup water to keep production running during equipment failure, replacement, or facility expansion. It also increases the speed to market for new facilities by providing high quality water for rinsing applications.

The Vantage mobile UPW system pairs with our 2-pass reverse osmosis (RO) pretreatment trailer for full utilization. It meets industry standards for total organic carbon (TOC) destruction, continuous electrodeionization (CEDI), ion exchange resin, and ultrafiltration (UF). It also treats water to 18 megaohm resistivity, with 10–30 ppb TOC, and a flow rate up to 50 gpm.

The Vantage mobile UPW system aims to fill whatever gap growing, operating, or greenfield manufacturers require. The system is designed for ease of mobilization and installation to optimize response time to market.

ADVANCED TREATMENT TECHNOLOGY

The Vantage mobile UPW system features the Ionpure® VNX module, which is designed with proven continuous electrodeionization (CEDI) technology to produce high purity water. It removes ≥ 95% boron and silica and improves ion exchange frequencies.

Xylem's Microelectronics grade virgin NR45-MEG NANO mixed bed resin allows superior rinse periods and minimizes TOC contribution.



FEATURES & BENEFITS

- Reliable high purity water for rinsing or primary UPW makeup
- Pairs with 2-pass RO trailer for complete pretreatment / distribution
- Removes boron and silica and improves IX exchange frequencies
- Ultrafiltration module for final filtration
- 3,500 gal FRP storage tank with nitrogen blanketing capabilities
- Loop booster pumps to meet a wide range of pressure needs



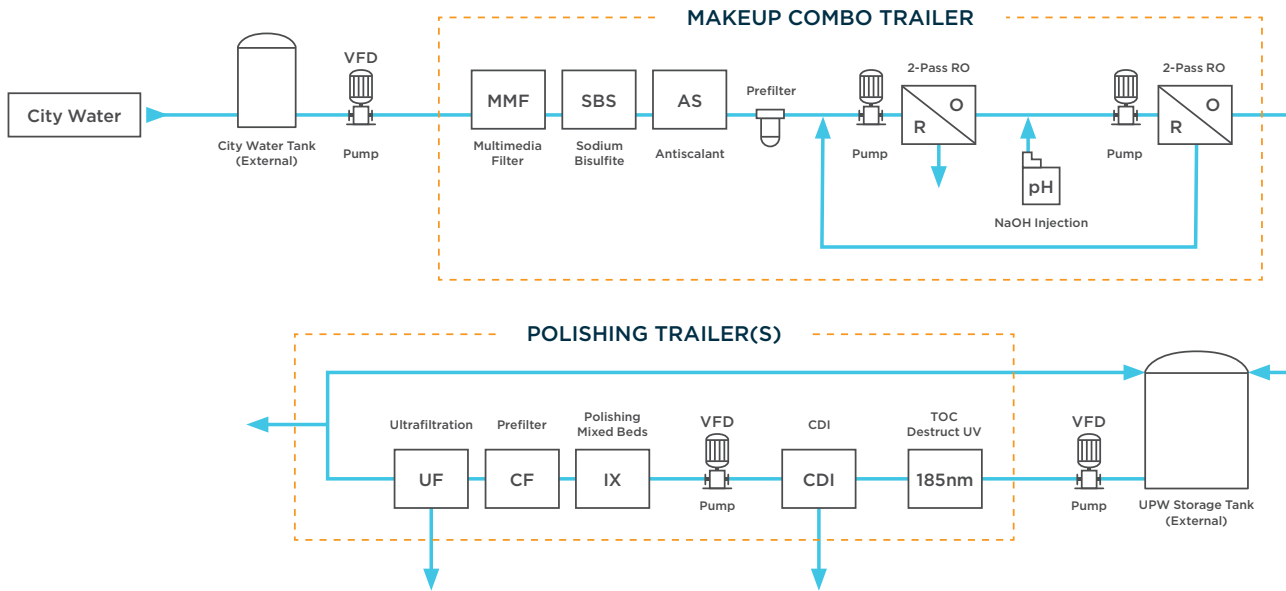
Ionpure® VNX skid



Main control panel



Ultrafiltration skid



SYSTEM SIZE

Loop Flow Rate	60 gpm
Maximum Consumption	50 gpm
Storage Tank	3,500 gal
Approximate Trailer Dimensions	53' x 9'
Approximate Tank Dimension	8' OD x 10' SS
Approximate Pump Skid Dimensions	70" x 51"

GENERAL SPECIFICATIONS

Distribution System	FRP tank with nitrogen blanket, distribution and booster pumps, TOC destruct UV, electronics grade CDI, electronics grade virgin IX, prefiltration, and ultrafiltration
Electrical requirement	3 Phase / 60 Hz / 480 V / 200 A
Nitrogen requirement	80-100 psi / 1000 scfh / 99.995% or greater
Feedwater requirements	Two pass RO effluent with < 50 ppb TOC, or Xylem designed pretreatment solution. Commonly paired with Xylem Combo Trailer.
Drain requirements	CDI reject (can be recycled): 7 gpm Max rinse flow rate: 55 gpm
Quality Specification	Resistivity >18 MΩ / TOC <10 ppb (influent dependent) / Low Particles



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