Healthcare

NuSurg All in One

For Surgery Centers

A complete water treatment system for surgery centers, dental offices, and eye clinics

Meet the ST108 Standards with the Smallest System in the Industry

In August 2023 ANSI/AAMI released new standards for the water used to clean, rinse, sterilize and disinfect instruments for surgery. There are now limits for Utility Water, Critical Water and Steam. To achieve this, several types of water treatment technology are needed.

NuSurg cuts cost by 50% with only 25% of the footprint compared to alternative systems

- Carbon & Anti-Scalant Filter
- Particulate Filter
- RO Membranes
- Deionizer Cartridge
- Ultraviolet Purifier
- Validated Bacteria/Endo Filter
- RO and Distribution Pumps

All the technology you need to meet the standards

- Smallest footprint 21" x 35" x 73"
- Competitive price
- Meets all regulatory requirements
- 24/7 phone support

* Consumable product

COMPONENT	PURPOSE	MODEL
Carbon & Anti-Scalant Filter	Extends membrane life by removing chlorine and hardness minerals that cause scale	130310 *
Particulate Filter	Removes >5 microns particulate to reduce clogging of the membrane	130400 *
RO Membrane	Purifies the water by removing up to 99% of total dissolved solids	160205 *
Deionizer Cartridge	Polishes the RO water to higher quality to help ensure critical water standards are achieved	136620 *
Ultra-Violet Purifier	Destroys harmful bacteria	141312 *
CMF Validated Filter	Removes bacteria and endotoxin	131700 *
Pumps - 240V Single phase	1st pump pushes water from pretreatment components through RO membranes. 2nd pump distributes water from storage tank through loop and point of use.	400001
Storage Tank Sold separately	Keeps water recirculating and fresh. 55- gallon and 100-gallon options	55- 870010 100- 870110

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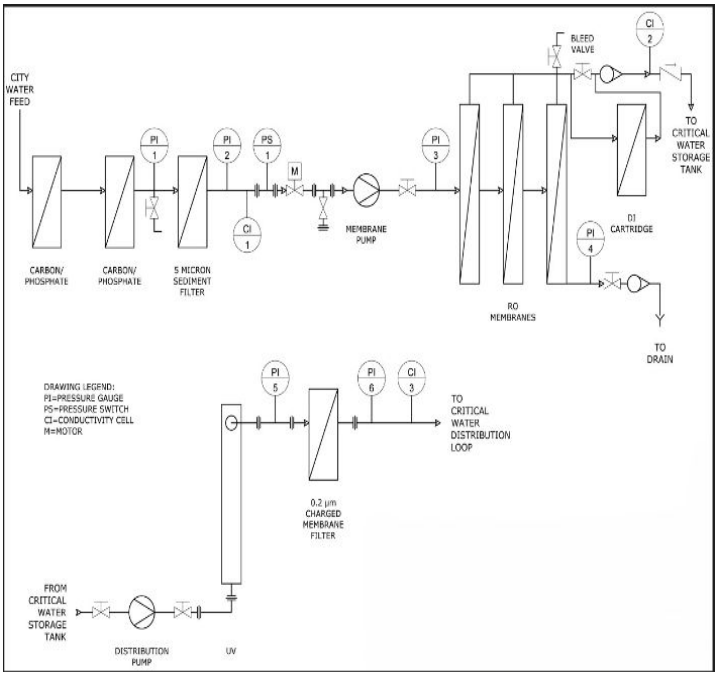
Pair with High Purity Storage Tank for Continuous Fresh Water Supply

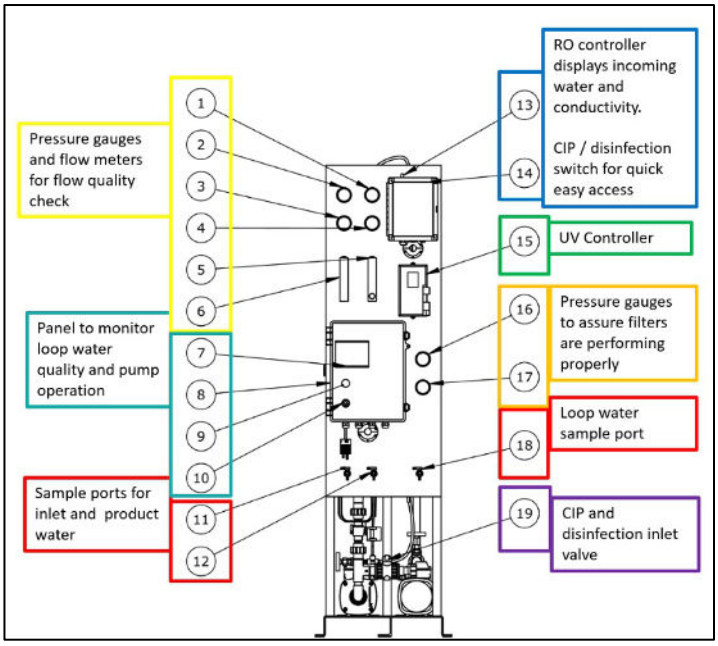
55- or 100-gallon cone bottom tank reduces bacteria growth while storing and recirculating water from the loop back through the NuSurg system. Includes internal spray ball for easy disinfection.

Vent filter keeps impurities from entering the tank. Skidded single point electrical connection. 240V/1 phase, 20 amp dedicated. ¾" FIP inlet, 3/8" permeate quick connect, 3/8" reject quick connect.



	NuSurg SP
Performance	
Nominal Rejection	99%
Production (GPD) 1-3 Membranes *	540, 1080, 1620
Product Flow (GPM) 1-3 Membranes *	0.375, 0.75, 1.125
Recovery	50%
Power Requirements	
Voltage	240
Phase	Single Phase
Amps	14.4
Electrical Connection	NEMA6-20
Pumps	Grundfos CM
Horsepower (Each)	1.06
Membranes	
Size	2.5" x 40"
Type	Thin Film Nanocomposite (TFN)
Quantity	1-3
DI Polish	
DI Cartridge	4.5" x 20" high-capacity cartridge
UV	
UV System	3.5" x 20" 316SS Reactor
Feed Water Requirements	
Chlorine Tolerance	<0.1 PPM
Temperature	Maximum 80°F
Operating pH	2-10
Cleaning pH	1-12
Pre-Filtration (Included)	5-micron 4.5" x 10" cartridge
Pre-Treatment (2 Included)	Carbon/Phosphate 4.5" x 10" cartridge
Membrane Pressure Range (PSI)	120-160
Max Fouling Index (SDI)	<5.0
Dimensional Data	
Connections	RO Inlet: 0.75" FPT RO Outlet: 0.375" Tube RO Drain/Reject: 0.375" Tube Distribution Inlet: 1" SOC/FPT Distribution Outlet: 0.5" FPT/0.75" FPT
Weight (lb.) / Dimensions	260# / 21" x 35" x 73"

*Product flow rate varies with temperature. All models are rated at 77° F (25° C) with feed water of 1500 ppm NaCl Solution @ 150 psi applied pressure.



About Apex

Apex is a trusted leader in water and process management, delivering integrated solutions of chemistry, equipment, automation and services to help various industries reduce costs, maximize efficiency, stay compliant, and optimize sustainability.

Contact us to learn more about how we can help simplify your operations to mitigate risks and ensure compliance.