

STERILE MATE LLC

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2026 CAPABILITIES BROCHURE · AAMI ST108 · HEALTHCARE + INDUSTRIAL

Healthcare & Industrial Water Purification

Design · Build · Service · Certified

AAMI ST108 critical-water systems · RO / DI generation loops
Softener & carbon pretreatment · Licensed electrical + plumbing

HOSPITALS

SPD · Dialysis · Labs · ORs

INDUSTRIAL

Boiler · Cooling · Food · Chem

LICENSED

Master Trades · ICRA III

SERVICE 24/7

Remote Monitoring · TX / LA / AL / MS

Reliable. Consistent. Quality. Every time.

Sterile Mate is a healthcare-first water-purification prime contractor. We do not resell distributor kits and hand you a phone number — we **design the system, install the piping and power, commission the RO / DI loop, and monitor it 24/7** once it goes live. Every trade is in-house or under our direct GC oversight. Every compliance artifact is filed in the same project folder that Biomed, Infection Prevention, and Joint Commission surveyors get when they ask.



Solutions delivered under one PO

Sterile Processing (SPD) — AAMI ST108 Critical Water	Dialysis Water Rooms — AAMI RD52/RD62 loops
Reverse Osmosis + Service DI Loops	Industrial & Whole-Facility Water Softening
Portable Exchange DI Tank Program	Legionella / HPC / Endotoxin Testing (via A&B Labs)
UV Sterilization, Sub-micron & 0.05 µm Endotoxin Filtration	Emergency Rental / Bridge Systems

Where we work



Sterile Processing

AAMI ST108 critical-water loops for SPD wall outlets and washer/disinfectors.



Dialysis

RD52/RD62 water rooms — heat-disinfected RO loops for hemodialysis chairs.



Research Labs

Type I / II / III lab-grade water at bench points-of-use with resistivity trending.

Licensed & Certified Water Technicians

In 2026 Sterile Mate expanded its bench of **in-house licensed and certified water-treatment technicians**. Every install, service call, and preventive-maintenance visit is executed by a credentialed Sterile Mate employee — not a subcontractor — so continuity, chain-of-custody, and infection-control accountability stay under one roof.

Trade / Credential	What We Bring To Site
Water Quality Association Certified Water Specialist (CWS)	AAMI ST108 conductivity, TOC, endotoxin interpretation
Texas-Licensed Master Plumbers	Schedule 80 PVC, PEX, copper — stamped critical-water piping
Texas-Licensed Master Electricians	Skid pre-wire, 208/240/480 V, PLC integration, UPS backup
EPA / OSHA HAZWOPER-trained field techs	ICRA barriers, chemical handling, spill containment
Manufacturer-Certified RO / DI Service Techs	Puretec / MediQA / Triton commissioning + PM
Infection-Prevention / ICRA Level III trained	Barrier install, HEPA scrubbers, negative-pressure protocols

Comprehensive Healthcare Water GC — One Vendor, One PO

Sterile Mate delivers **full-scale General Contracting services tailored to healthcare water infrastructure**. From advanced filtration systems to complete room-buildout construction, we manage every phase with precision, efficiency, and full compliance with the highest industry standards — including AAMI ST108, NFPA, and healthcare construction codes. This is the same crew that installs the RO skid, so the electrical, plumbing, and controls work is spec'd for it from day one.

Specialized Plumbing (in support of water purification)

- **Material selection** — Schedule 80 PVC, PEX, or 304/316L stainless per AAMI ST108, chosen for the loop's temperature and biocide profile.
- **Critical-water recirculation design** — loops engineered to eliminate stagnation at every outlet port and prevent biofilm.
- **Custom RO/DI integration** — tie-in from softener discharge through membrane housing, ultrafiltration, and back to the SPD wall outlets — permitted and stamped by a Texas Master Plumber.
- **Facility-wide softening & utility-water tie-ins** — boiler feed, cooling tower, laundry, cafeteria — sequenced with the SPD critical loop.

Healthcare Electrical Pre-Installation & Controls

- **Healthcare-experienced Master Electricians** — trained for ICRA sterile environments and hospital risk assessments.
- **Skid pre-wiring & RO panel integration** — 208/240/480 V feeders, VFD conditioning, PLC and remote-monitoring pull, isolation transformers where required.
- **UPS & life-safety branch integration** — controls tied to the appropriate essential electrical branch (per NFPA 99) so an outage doesn't break the loop.
- **Instrumentation & telemetry pulls** — conductivity, TOC, pressure, and Ohm sensors wired to the plant control room and Sterile Mate's 24/7 remote-monitoring platform.

Room Buildout, ICRA & Containment

- **Turnkey water-room buildouts** — wall framing, epoxy floors with proper slope-to-drain, curbs, mechanical louvers, and HEPA filtration.
- **ICRA Level III/IV containment** — negative-pressure enclosures, HEPA scrubbers, sticky-mat protocol, and daily air sampling during construction.
- **Stakeholder collaboration** — Biomed, Infection Prevention, Facilities, and Sterile Processing are all invited to every walk-down.

- **Full compliance artifact package** — AAMI ST108, NFPA 99, TAS, ADA, and Joint Commission EC standards delivered in one bound project folder at commissioning.

Your Complete Solution for AAMI ST108 & Beyond

Sterile. Pure. Reliable. Sterile Mate SPD solutions are designed to produce water that meets AAMI ST108 water-quality specifications for medical-device reprocessing. Our systems reduce pitting and corrosion, control microbial fouling, prevent mineral scaling, and improve cleaning quality and efficiency — so your SPD spends less time worrying about water and more time on instrument turnaround.

Sustainable

Maximum uptime,
low-waste recovery

Pure

Consistent high-purity
critical water

Digital

Remote-monitored
performance data

Compliant

AAMI ST108,
NFPA 99, TJC

Features across the SPD platform

- Digitally enabled — quality, operations, and maintenance data streamed to the plant BMS and Sterile Mate's 24/7 remote-monitoring platform.
- Reverse osmosis + service deionization configurations.
- UV light (254 nm) for microbial destruction; sub-micron and 0.05 µm endotoxin filtration.
- Multiple flow rates from 2,100 to 15,600 GPD at up to 99.4% rejection.
- Up to 80% recovery rates — minimize water waste, lower sewer bills.
- Complete system ships pre-assembled — fast install, low footprint.
- Optional service program: 24/7 remote monitoring, proactive PM, and process-guarantee reporting.

Deionization is not optional — it is the standard

Deionization following reverse osmosis is **required** to meet the AAMI ST108 conductivity target below **10 µS/cm** for compliant instrument reprocessing. Sterile Mate does not treat DI as a backup — it is an integral component working with final filtration and UV to maintain water quality every hour of every day.

Triton Reverse Osmosis Systems

Engineered for high productivity, automated operation, and minimal maintenance. Vertical configuration, state-of-the-art membranes, and robust materials. The Triton ROS-IXC series delivers **2,100 to 15,600 GPD** at up to **99% rejection**.

Key benefits

- Built for reliability — premium pumps, motors, and TFC membranes for energy savings and low maintenance.
- Up to 99.4% purification — removes minerals, chemicals, and endotoxin precursors that damage equipment.
- Up to 80% recovery — minimizes water waste.
- Complete pre-assembled skid ships ready — fast install, minimal footprint.

Commercial RO product matrix

Model	GPD	Membranes	Product (GPM)	Feed (GPM)	Recovery	Dimensions (WxDxH)	Power
ROS-IXC-1SS-T	2,100 – 2,400	4" × 40" (1)	1.45 – 1.6	5	50 – 60%	20 × 28 × 60"	220 V
ROS-IXC-2SS-T	4,200 – 4,800	4" × 40" (2)	2.9 – 3.2	8	50 – 60%	20 × 28 × 60"	220 V
ROS-IXC-3SS-T	6,300 – 7,200	4" × 40" (3)	4.3 – 4.8	10	50 – 60%	25 × 28 × 60"	220 V
ROS-IXC-4SS-T	8,400 – 9,600	4" × 40" (4)	5.8 – 6.4	20	50 – 60%	25 × 28 × 60"	220 V
ROS-IXC-6SS-T	14,400 – 15,600	4" × 40" (6)	10 – 10.8	25	50 – 60%	25 × 50 × 47"	220 V

Production based on feed water < 1,000 ppm, 77°F, SDI < 5. Suitable pretreatment required to remove membrane-damaging substances.

Sterile Mate DI Tank Exchange Program

As an alternative to complicated and costly on-site regeneration, **Sterile Mate operates a portable exchange deionizer program** with dramatically lower maintenance requirements and lower total operating cost. Our licensed technicians deliver a clean tank on your schedule, swap it under service conditions, and return the exhausted resin to a partner regeneration facility for controlled, audited reprocessing.

Quality & regeneration

Every batch of regenerated ion-exchange resin is quality-tested at multiple stages of the regeneration process for consistency in every tank. Only premium ion-exchange resins are used to provide the highest quality with consistent performance. Certificates of Analysis are delivered with every service call.

Features & benefits

Quick response for tank exchanges	No capital investment required
In-house partner resin processing	Regenerant-neutralization equipment eliminated on-site
Only premium ion-exchange resins	Duplicate systems no longer required
Repeatable performance per COA	Reduced labor cost — no on-site regen operators
Permanent, temporary, or emergency	Space savings — no chemical storage room

Portable DI tank matrix

Model	D (in)	H (in)	Resin Vol (ft ³)	Grains Removal	Flow (GPM)	Op. Weight (lbs)
MB-6.18	6	18	0.3	3,000	1 – 2	21
MB-12	8	44	1.2	12,000	3 – 4	105
MB-27	12	42	2.7	27,000	8 – 10	180
MB-36	14	47	3.6	36,000	10 – 12	290
MB-200	35	95	20.0	200,000	50 – 70	2,015
MB-350	40	96	35.0	350,000	70 – 105	2,975

Max temperature 95°F · Max pressure 120 psig · Mixed bed (40% cation / 60% anion) · FRP with polyethylene lining · NSF, WQA, FDA approvals

Industrial Softeners & Carbon Pretreatment



Skid-Mounted Triplex Softener

Continuous-service duplex / triplex configuration — while one tank regenerates, the others stay online for uninterrupted SPD supply.



Digital Control Head & Brine Tank

Meter- or time-initiated regeneration, on-board diagnostics, and a sealed brine tank sized for a full 30-day salt loading cycle.

Sterile Mate's water softeners and carbon filters are engineered for healthcare environments to support compliance with AAMI ST108 for critical water in sterile processing. Softeners remove calcium and magnesium through a resin-based ion-exchange process, preventing scale buildup that would otherwise damage downstream RO membranes. Carbon filters work alongside to eliminate chlorine, chloramines, and organic contaminants that degrade RO membrane performance.

Softener/DI product matrix (Sterile Mate SM series)

Model	Grain Cap.	Cont. GPM	Peak GPM	Valve	Resin ft ³	Softener Tank
SM-90-1	90,000	15	25	1"	3	14 × 65
SM-120-1	120,000	16	27	1"	4	16 × 65
SM-150-1.5	150,000	25	40	1.5"	5	18 × 65
SM-210-1.5	210,000	30	50	1.5"	7	21 × 65
SM-300-1.5	300,000	40	60	1.5"	10	24 × 72
SM-300-2	300,000	65	120	2"	10	24 × 72
SM-450-1.5	450,000	40	70	1.5"	15	30 × 72
SM-450-2	450,000	65	120	2"	15	30 × 72
SM-600-2	600,000	65	120	2"	20	36 × 72
SM-600-3	600,000	120	270	3"	20	36 × 72
SM-900-2	900,000	65	120	2"	30	42 × 72
SM-900-3	900,000	120	270	3"	30	42 × 72
SM-1200-3	1,200,000	120	270	3"	40	48 × 72
SM-1500-3	1,500,000	120	300	3"	50	63 × 86

Twin-alternating and triplex softener configurations available for continuous operation. Duplex / triplex, skid-mounted plumbed & wired, PLC control, ASME-coded tanks, butterfly valves, meter- or time-initiated regeneration — all optional on request.

Services offered under one roof

RO Systems (Triton IXC, MediQA, Heatsan)	Water Softeners (SM Series)
Portable DI Tank Exchange	Carbon Filtration & Multimedia Pretreatment
UV Disinfection & Endotoxin Filtration	Automatic Strainers & Cartridge Filters
Equipment Supply & Installation	Turnkey System Design
Upgrades & Retrofits	Maintenance & Repair (24/7 escalation)
Specialized Technical Support	Custom Engineered Systems
Portable Rental / Bridge Systems	Engineering Design Assistance
Licensed Master Plumbing	Licensed Master Electrical & Controls
ICRA Barrier & Containment	Legionella / HPC / Endotoxin Testing

Book a site walk-through or request a proposal

Web: sterilemate.com/healthcare-water-purification · Portal: sterilemate.com/solutions/water-treatment

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Emergency same-day dispatch across TX, LA, AL, MS.