

WL4 HEATED STRIP TANK

TECHNICAL DATA SHEET

US Strip Tank Company

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The WL4 is an industrial heated chemical stripping tank designed for safe, efficient removal of powder coatings, e-coat, paint, primer, Cerakote, and other coatings using heated NMP-based and caustic chemical solutions. Built from heavy-gauge 304 stainless steel with proprietary safety systems, the WL4 is engineered for the demands of professional coating removal operations.

TANK SPECIFICATIONS

Inner Dimensions	30"W × 40"L × 32"H
Tank Material	304 Stainless Steel
Wall Thickness	7-Gauge (0.1793")
Wetted Fittings	316 Stainless Steel (marine-grade)
Voltage	240 VAC
Operating Temperature	Up to 185°F (adjustable)

LID SYSTEM

Insulation	2" Calcium Silicate (non-wicking)
Lid Seal	FFKM (Perfluoroelastomer) — chemical resistant
Vapor Venting	3" 90° center-mounted, PTFE-coated fiberglass
Lid Mechanism	Counterweight (standard) or Torsion Spring (Supreme/Pump)

ENCLOSURE & CONTROLS

Enclosure Rating	NEMA 4X Stainless Steel
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DRAINAGE & MAINTENANCE

Bottom Drain	2" with pump connection
Maintenance Drain	1" secondary drain
Sludge Removal	Dual-valve system (no manual siphoning)
Maintenance Time	~1 hour (75% reduction vs. competitors)

FORGE GUARD™ PASSIVATION

PROPRIETARY

Every WL4 undergoes a proprietary full-immersion passivation process that exceeds ASTM A967 standards:

Chemistry	4% citric acid solution
Temperature	200°F (+20°F above ASTM A967 max)
Method	95% full-tank immersion soak
Coverage	100% interior — every weld, seam, and crevice
Result	Hardened chromium oxide corrosion barrier

CHEMICAL COMPATIBILITY

- ✓ NMP-based strippers (e.g., Eco Strip)
- ✓ Caustic solutions (KOH, NaOH)

SSR Failure Detection	Hardwired independent circuit PROPRIETARY
Temperature Control	Genesis PID (Supreme/Pump)
LED Diagnostics	5-state: green / yellow / red / off / flash (Supreme/Pump)
Remote Monitoring	Cell phone access (Supreme/Pump)

- ✓ MEA (Monoethanolamine) blends
- ✓ Citric acid cleaning solutions
- ✓ FFKM seal rated for aggressive chemistries
- ✓ 316 SS fittings for enhanced corrosion resistance

TARGET APPLICATIONS

- ✓ Powder coating removal
- ✓ E-coat / electrocoat removal
- ✓ Paint & primer stripping
- ✓ Cerakote / firearms finishing
- ✓ General manufacturing rework
- ✓ Metal fabrication part prep

MODEL COMPARISON

FEATURE	WL4B BASIC	WL4S SUPREME	WL4P PUMP
304 SS / 7-Gauge Construction	✓	✓	✓
NEMA 4X Stainless Enclosure	✓	✓	✓
SSR Failure Detection	✓	✓	✓
Dual-Valve Sludge Removal	✓	✓	✓
316 SS Wetted Fittings	✓	✓	✓
3" 90° Center Lid Vent	✓	✓	✓
ForgeGuard™ Passivation	✓	✓	✓
FFKM Lid Seal	✓	✓	✓
Calcium Silicate Insulated Lid	✓	✓	✓
Torsion Spring Lid System	+\$1,000	✓	✓
5-State LED Diagnostics	—	✓	✓
Genesis PID Temperature Control	—	✓	✓
Remote Access & Monitoring	—	✓	✓
Temperature Automation & Scheduling	—	✓	✓
Integrated Recirculation Pump	—	—	✓
Powered Drain & Fill System	—	—	✓
Chemical Agitation	—	—	✓

CRITICAL SAFETY FEATURE: SSR FAILURE DETECTION

A stuck solid-state relay (SSR) causes heaters to run uncontrolled — a critical hazard when operating temperatures (180°F) are within 16°F of chemical flash points. The WL4's hardwired independent SSR failure detection circuit continuously monitors relay state and will shut down heating before a dangerous condition develops. This is not a software check — it is a dedicated, independent hardware circuit. **No competing product on the market offers this safety feature.**

All models require professional electrical installation by a qualified electrician. 240 VAC dedicated circuit required.

Specifications subject to change. Custom dimensions, heating configurations, and chemical-specific builds available upon request.

ForgeGuard™ is a trademark of US Strip Tank Company.

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