

INTERSECTION DEEP-DIVE / FLUID TRANSFER

On-Site Chlorine/Hypochlorite Generation vs. Purchased Chemical

ProMinent CHLORINSITU: generating hypochlorite, chlorine, and hypochlorous acid on-site from salt and electricity — eliminating hazardous-chemical transport and storage entirely.

THE PROBLEM THIS GUIDE SOLVES

Purchased hypochlorite means transport and storage risk, every delivery

Dosing purchased sodium hypochlorite means bringing a hazardous chemical onto site, storing it, and managing its handling and degradation over time. On-site electrolysis generation is a genuine alternative – not a different tank material, a different supply-chain model entirely.

THE CHLORINSITU FAMILY

Model	Type	Capacity
CHLORINSITU IIa	Low-chlorate hypochlorite, compact, integrated ventilation + bleeding	60 – 2,500 g/h chlorine
CHLORINSITU IIa XL	Tubular-cell, large-volume hypochlorite	5 – 45 kg/h chlorine
CHLORINSITU III	Ultra-pure / low-chloride / low-chlorate hypochlorite	100 – 10,000 g/h chlorine
CHLORINSITU III Compact	Smaller pools	25 – 50 g/h chlorine
CHLORINSITU V Compact	High-purity chlorine gas, vacuum process	25 – 50 g/h chlorine
CHLORINSITU V	Replaces chlorine gas cylinders for pools	100 – 3,500 g/h chlorine
CHLORINSITU V Plus	Ultra-pure chlorine gas, peak-demand capable	100 – 3,500 g/h chlorine

WHERE EACH MODEL APPLIES

CHLORINSITU IIa, IIa XL, III, and V Plus serve drinking water, wastewater, process water, and swimming pool applications. CHLORINSITU III, V, and V Plus additionally serve cooling towers. CHLORINSITU III Compact and V Compact serve drinking water, cooling towers, and swimming pool applications specifically.

What this guide does not claim: wetted-material and certification specifics for the CHLORINSITU line have not yet been captured in LibertyCES's source documentation at the same depth as the metering pump data elsewhere in this guide series. Material compatibility questions for a specific installation should go through a spec review rather than being assumed from this overview.

WHY IT MATTERS

A transport/storage-risk decision, not just an equipment decision

On-site electrolysis generation from salt and electricity eliminates the transport and storage of hazardous purchased chemical entirely — a real alternative for facilities weighing OSHA and EPA storage requirements against capital equipment cost, not merely a different tank material or dosing pump choice. This is the same category of decision as choosing chemical dosing versus UV disinfection: a facility-level supply-chain choice, evaluated on operating risk and cost, not a like-for-like equipment swap.

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- `prominent-water-treatment-systems.md`

Capacity ranges and application matrix as published by ProMinent. Confirm current model availability and specifications with the manufacturer before final specification.

NEXT STEP

Send LibertyCES your current chlorine/hypochlorite demand, application, and existing storage setup — a spec review can size a CHLORINSITU system against your actual demand or confirm purchased-chemical dosing is still the right call for your facility.

[Request a spec review](#)

NEXT STEP

Send LibertyCES the process data, not a part number.

Current chlorine/hypochlorite demand, application, water source, and existing storage — that's what a real spec review needs to start.

Request a spec review

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