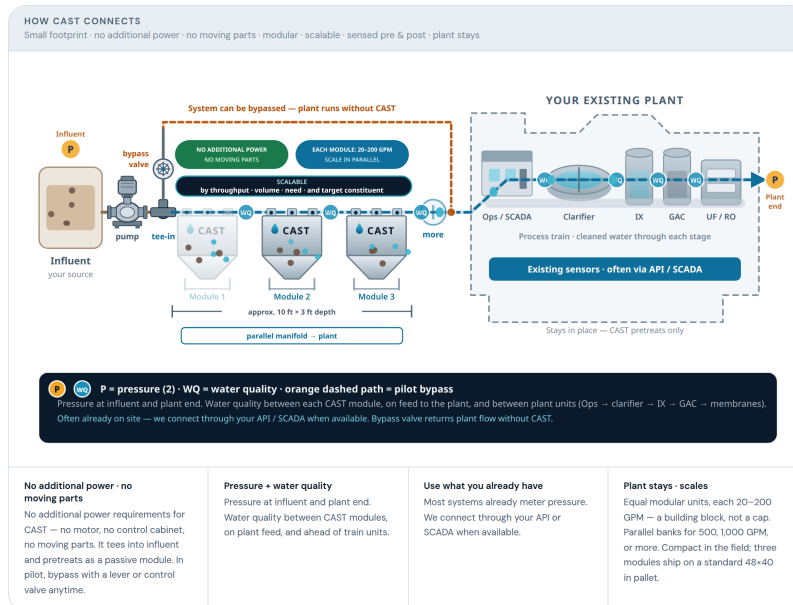


We don't tear out. We tee in.

CAST is modular pretreatment that connects ahead of the treatment train you already run. No plant replacement. No additional power. No moving parts.



How CAST connects — influent → pump → tee-in / bypass → CAST modules (top ports) → existing plant train.

HYDRAULIC PATH

- Influent from your source feeds a pump, then a tee-in at the top ports of each CAST module.
- Treated flow leaves CAST through a parallel manifold into your existing plant (clarifier, IX, GAC, UF/RO, or as configured).
- CAST pretreats only — the plant stays in place.

BYPASS (PILOT-READY)

- A bypass valve at the tee-in can redirect flow around CAST so the plant runs without CAST.
- Especially useful in pilot: flip a lever or control valve anytime.

FOOTPRINT, POWER, AND MODULES

- Small pad at the plant — not a rebuild. For shipping: three CAST modules fit on a standard 48×40 in pallet (transport scale, not how each unit sits in the field).
- No additional power requirements. No electricity required for CAST itself. No moving parts.
- Each module: 20–200 GPM. Higher total flow by assembling modules in parallel — a building block, not a ceiling.
- Scale by throughput, volume, need, and target constituent of concern.

SENSING

- Pressure sensors at influent and at plant end.
- Water quality sensing between CAST modules and between stages in the plant train where applicable.
- Most systems already meter key parameters — Flotation connects through your API or SCADA when available.

SERVICE AND FOULING

- Fouling response depends on water quality and the target constituent of concern.
- Lift the inner workings of the CAST and pressure-wash as needed. Aluminum construction is essentially non-fouling.

ENGAGEMENT PATH

- Basic intake → 60-minute scoping call → one-page ROI → paid on-site pilot to prove performance on your stream.
- After proof-up: water-as-a-service commercial model (savings-share), not a large CapEx purchase to start.

CAST is patent pending. Performance is matrix-specific and confirmed in pilot. This document is non-confidential and for general distribution — not a technical specification or offer of terms.
chris@flotation.com · john@flotation.com · flotation.com