

CIP Systems (Clean-in-Place)

S⁴ Clean-In-Place (CIP) Systems are engineered to your specific plant application and utility requirements for effective and efficient process equipment cleaning. Proper CIP design and sizing ensure sufficient flow and appropriate pressure to thoroughly remove residue, rinse effectively, shorten cycle times, reduce operating costs and promote worker safety.



Automatic CIP Cleaning Advantages

Conformity	Validation enabled cleaning process.
Minimizes Mistakes	Automating cleaning reduces the chance of human error that can contribute to an unsafe product.
Keeps Employees Safe	Reduce chemical exposure by containing cleaning solutions within the system.
More Production Time	As less production time is lost to cleaning, more time is spent making product.
Product Quality	Reliable and repeatable cleaning means sustainable product quality and consistency. Less contamination means fewer product recalls and higher brand confidence.
Utility Savings	Water and energy usage is reduced through repeatable cycle control.
Chemical Savings	Economical use of cleaning detergent.

S⁴ CIP Types

S⁴ Clean-In-Place (CIP) Systems can be portable or stationary, single-tank, two-tank, or multi-tank, single-use, re-use, or once-through, as well as designed for multi-circuit capabilities.

One-Tank Single-Use

Single-use source of cleaning solution & rinse water, once-through or recirculated.

Reduced capital expenditure.

Portable or stationary design with simple & flexible operation.

Lower space requirement Sani-Matic CIP.

Two-Tank Detergent Recovery/Reuse

Permits recovery & reuse of wash solution.

Used where water utilities are limited.

Supply/recirculation option.

Decreases wash cycle time.

Multi-Tank Detergent & Rinse Recovery/Reuse

Permits recovery & reuse of wash solution & rinse water.

Reduces water & waste water costs.

Fourth tank may be added for acid recovery & reuse applications.

Multi-Circuit & Recovery/Reuse

Serves multiple circuits independently & simultaneously.

Substantial cost & space-saving advantages over multiple separate units.

Centralised controls.

Reduced wash & rinse cycle times.

S⁴ CIP Systems

S⁴ CIP Systems are designed with high flexibility, so that all cleaning cycles and recipes are fully controllable from the control panel. In every cycle, parameters, such as temperature and cleaning detergent concentration, are measured and documented.

Only when the specified temperature and concentration of the cleaning detergent are reached, will the CIP cleaning cycle time countdown begin. After completion of a cycle, the system switches automatically to the next cleaning sequence. All sequences are recipe controlled and fully documented.



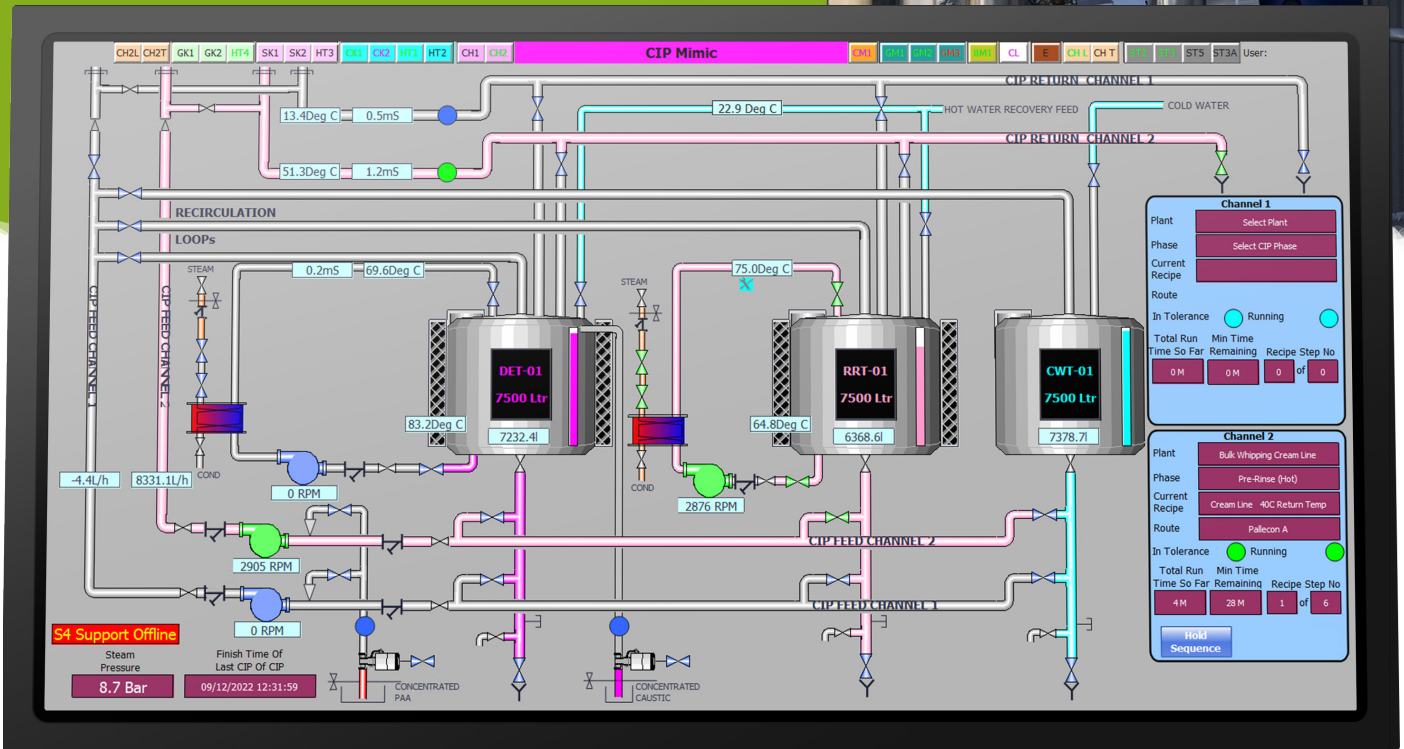


S⁴ Series CIP Controls

Programming & Controls: Communications interface with individual process control systems for an integrated solution. Remote Access and operation.

Documentation: Complete documentation to comply with regulatory and customer standards is standard, as is the S⁴ Series data acquisition and management system.

Parameters: S⁴ Series Recipe controlled repeatability for different cleaning parameters. (Cleaning time, cleaning cycles, concentrations of cleaning detergents, flow rates & temperature).



S⁴ CIP Audits & Training

S⁴ Engineering also offer a CIP audits and specialised training to optimize your existing system and give greater knowledge to your employees.

S⁴ Engineering

Service • Support • Supply • Solutions

S⁴ Service & Support

S⁴ Engineering's dedicated service team provide full technical support during the start-up and after installation. We provide national on-site cover for scheduled and un-scheduled maintenance and repair services including emergency call out. We have a number of Service & Support options in place.

These include;

- Planned and unplanned maintenance which could also include shift cover for your technical staff.
- Preventative Service Maintenance Repair.
- Remote System Monitoring allowing independent system analysis and incident investigation.
- Emergency call-out and repair.

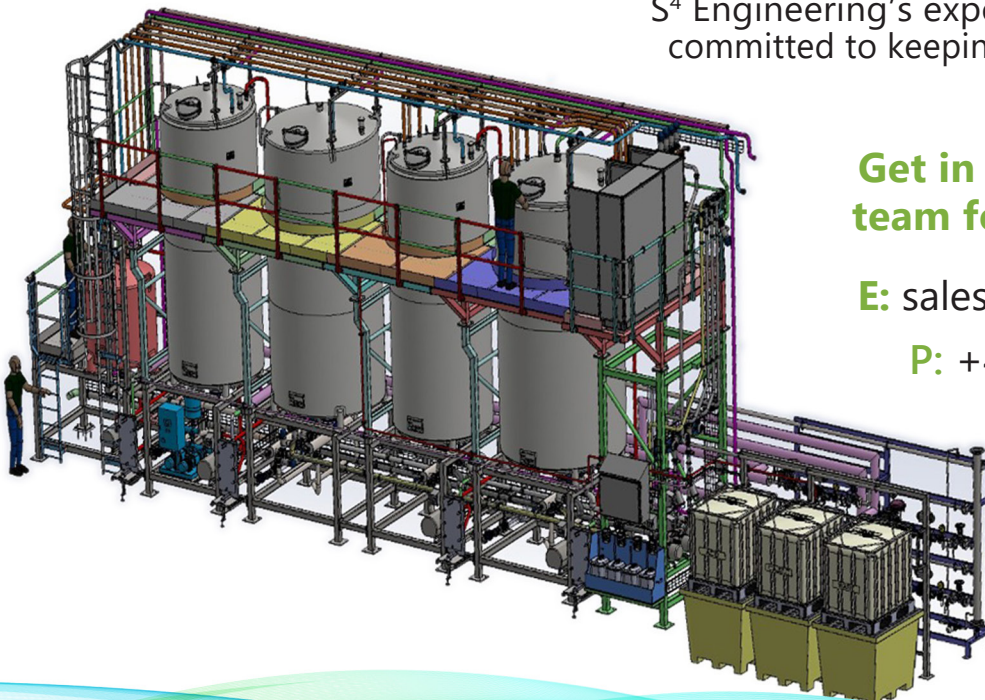
All equipment can be covered by any of our 4 established support packages:

Platinum
Remote Support
All Hours 24/7
Onsite Support Same Day

Gold
Remote Support
All Hours 24/7
Onsite Support Next Day

Silver
Remote Support
Office Hours & Weekends
Onsite Support Next Day

Bronze
Remote Support
Office Hours (Mon-Fri 8.30am to 5pm)
Onsite Support Next Day



S⁴ Engineering's experienced technical team is committed to keeping your production running.

Get in touch with our Sales team for more information.

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