



PresSure Products Company

SAFETY. QUALITY. RELIABILITY.



The PPC Edge

Cleaning and Monitoring Systems



MADE IN THE USA

Innovative, economical, and environmentally friendly N29TP Ultrasonic Stencil Cleaning System

In the beginning, PresSure Products Company's PPC-N29 Ultrasonic Stencil Cleaning System was revolutionary. Now we've made it even better.

The new PPC-N29TP provides an innovative, cost-effective, and environmentally sound solution to your cleaning requirements—from frameless and pump-print plastic stencils to QTS Quick Frame models. The system also effectively cleans misprinted boards and other items using fixturing available from PPC.

Stencils are inserted into the PPC-N29TP and cleaned in an upright position with perpendicular ultrasound. The result? A perfectly cleaned stencil—and all in a matter of minutes.

The PPC-N29TP's inline filtration system continuously removes soil loading and keeps the cleaning medium at a high level of quality for up to a year or longer, depending

on production. The system is designed to run with aqueous solutions (no flash-point, low VOC content) in a 100% closed-loop process, making it possible to separate residues. This ensures a cleaning process that meets your facility's economic and environmental demands now and in the future.

While incorporating all the features of our original design, the new PPC-N29TP also offers numerous enhancements including:

- High-efficiency ultrasonic generators and transducers
- Simplified, reliable solid-state design
- Early-warning filter change alarms
- User-friendly color touchpad operator interface
- Built-in diagnostic and status indicators
- Cycle progress indicators

An Unmatched Standard of Cleaning Efficiency.

The PPC-N29TP gives you peak cleaning effectiveness in all areas of operation:

- Cleans SMT-adhesive or solder paste stencils and circuit boards

- Unique filtration system means no contamination buildup (solder paste, adhesives, fluxes, and other soils)
- Complete set of custom handling tools for non-standard stencils, misprinted boards, and more also available upon request
- Integrated drying chamber dries one stencil while the next one is being cleaned, ensuring short process cycle times and high throughput rates

Versatile, Easy to Use—and Economical.

- Low cleaning process costs
- Evaporation cleaning agent losses minimized by double-cover design
- Cleans stencil dimensions up to 29" x 29"
- No complex connections; only a single power connector is necessary
- Durable stainless-steel construction
- Small footprint (34" wide, 40" high, 21" deep)
- Minimal maintenance required
- Standard-size filter cartridges allow for easy, low-cost maintenance
- Portable—Heavy-duty casters allow the N29 to be easily moved
- Cleaning chemicals are permanently recycled—nothing to drain

Ultrasonic System in Detail:

- **Footprint:** 34" x 21"
- **Height:** 40"
- **Weight (dry):** 435 lbs. (197 kg.)
- **Recommended Cleaner:** Zestron® Vigon® SC200 or SC210
- **Fluid Capacity:** 14.5 gal. (55 L)
- **Filtration:** Dual 20", 5 µm cartridge filters; one single gravity filter
- **Power Source:** 220-240 VAC / single phase / 20 amp max

Optional Equipment Includes:

- Light tower to indicate cycle progress
- Holder for misprinted circuit boards
- Adjustable frames for other sizes and types of stencils



The most efficient way to slash cleaning agent expenses

PPC-CMS-4 Concentration Monitoring System

PPC's newest control system for inline cleaners has arrived: The CMS-4. This system is designed to improve the concentration monitoring accuracy in heavily contaminated environments. Previous generations of control systems have not been explicitly designed to operate in such environments, a core deficiency that has led to the unavoidable use of simplifying assumptions that can prove grossly off target.

The failure of these assumptions invariably results in the misconception that the system is under control, even when the actual concentration has deviated from acceptable range. PPC's CMS-4, meanwhile, was designed from the start to tackle such environments.

The CMS-4 provides continuous monitoring and accurately controls the concentration of aqueous-based cleaning agents in your inline cleaner.

Concentration imbalances can occur through assembly-related dragover, evaporation, or bath level adjustments. The CMS-4 not only gives precise control of the process to resolve this problem, it also greatly reduces chemistry usage. The system's unique design ensures that concentration is controlled at a point just before the spray nozzles—where it counts.

New features include:

- A new technology sensor that is far less sensitive to flux residue contamination than sensors used elsewhere in the industry.
- Inclusion of supplementary sensors that continuously monitor ionic contamination.
- Programmable signal offsetting to mitigate the effects of contamination.
- Full computer control, with complete logging for every bit of data collected by the CMS-4.
- Precise liquid level control for enhanced concentration stability.
- Multiple-product capability standard.
- Full computer networking connectivity.
- Upgradability for future sensor additions.

How the CMS-4 Works. The CMS-4 is easily and unobtrusively fitted to most inline cleaners. It includes a state-of-the-art sensor and automatically adjusts the amount of chemistry in the wash tank to maintain the proper concentration. The sensor is fitted to a sampling loop, through which a continuous sample of the wash solution flows. This approach permits precise control of the chemistry, making the system robust and nearly maintenance-free.

A full-feature computer monitors the wash solution concentration, injection of chemistry, duration of injection, and all status alarms. Both pre-set and actual concentration values are displayed for the operator in numeric and graphical displays.

Ease of Use. The CMS-4 also features a user-friendly operator interface touch-screen graphic panel that allows for simple process setting changes and displays the status of the process.

The chemical delivery system consists of a metering pump and a containment pallet. Three sensors are mounted on the containment pallet to detect overflow, low chemistry levels, and chemistry out. A light tower indicates the condition of the system and on-screen indicators are provided to assist with troubleshooting, while the system tracks the amount of chemistry and water added.

System controls are housed in a NEMA 12 console on casters. To ensure safety, a low-voltage (24V) control is used, as well as stainless steel or polypropylene components.

The Utmost Control—and User Support

Armed with the CMS-4's unique capabilities, users can quickly discover an operation's contaminant accumulation behavior. PresSure Products staff can further support operators by using the logged CMS-4 data to program automatic offsetting formulae that are customized for each operation.

The bottom line: PPC's CMS-4 provides more superior control, contamination mitigation, and operation traceability than any previous generation system.

Specifications:

Power Requirements:

Voltage: 220-240 VAC at 50/60 Hertz

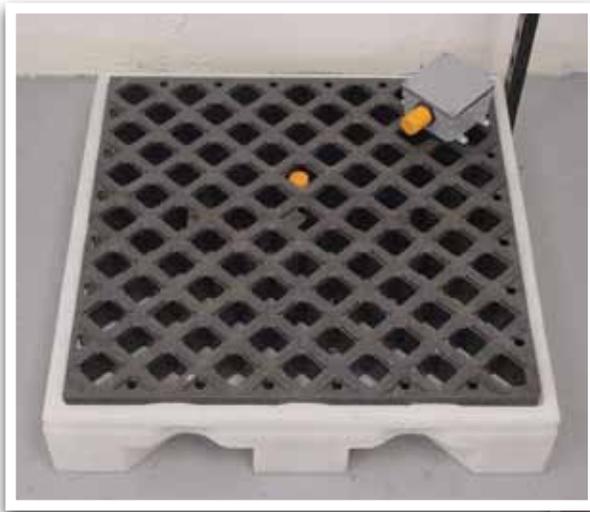
Current: 20 amperes

Additional Requirements:

A source of deionized water can be used to control concentration updrift.



The most efficient way to slash cleaning agent expenses
PPC-CMS-4 Concentration Monitoring System



**Drum containment
with sensors.**



**System status
light tower.**



PresSure Products Company, Inc. has been an American manufacturing leader since 1959. For over 50 years, customers worldwide have come to rely on the safety, quality, and reliability that have become PPC's trademark. For more information on our cleaning and monitoring systems, call us toll-free at **(800) 624-9043** or visit us on the Web at **www.pressureproducts.com**.

PresSure Products Company's engineering staff is available for consultation, product demonstration, and price quotations 8:00 a.m. to 4:30 p.m. EST Monday through Friday.