

# The RAPID Pretreatment Station<sup>®</sup>

Wash, Rinse and Phosphate – all in one station!



## For metal preparation before Powder or Wet Coating

Cleans and pretreats assemblies of all shapes and sizes

- Simple four-step operation
- All clean, rinse and pretreatment operations contained in one station.
- Multi-stage filter system cleans all solutions to 10-micron particle size.
- Closed-loop pretreatment chemical system significantly reduces chemical cost.
- Station is completely above ground, no trenches required.
- Portable and expandable
- 5000-pound rack load capacity
- Heated pretreatment tank
- Custom features available:
  - Evaporator for “zero-discharge” system
  - RO/DI rinse



**Rapid**

Industrial Finishing Systems  
Air Management Systems

For more information about all of our products,  
visit us on the Web at: <http://www.rapidengineering.com>

**1-800-536-3461**

An Employee Owned Company 1100 Seven Mile Rd. NW · Comstock Park, MI 49321 · Fax: (616) 647-9892



## Containment Unit

The Containment Unit is a steel drain rack with a steel grating covering the entire top surface area. A stainless steel 40-mesh screen captures large particles and dirt.

The waterproof Over-spray Curtains are attached to the rack on two or more sides to contain all solutions.

The Drainage system, an integral part of the rack, includes a connection to the drain hoses for transfer of all process solutions to the Processing Unit.



The Operator Control Panel containing the relays, contactors and manual control switches is built to NEMA-12 requirements and is UL listed.

## Process Unit

The Process Unit base provides a structure for the process equipment and serves as an over-spill reservoir with a drain for further processing or disposal.

The Process Unit sump pumps transfer the process solutions from the containment unit into the filter system.

The Multi-stage Filter System provides 50-, 10- and 5-micron disposable filters.

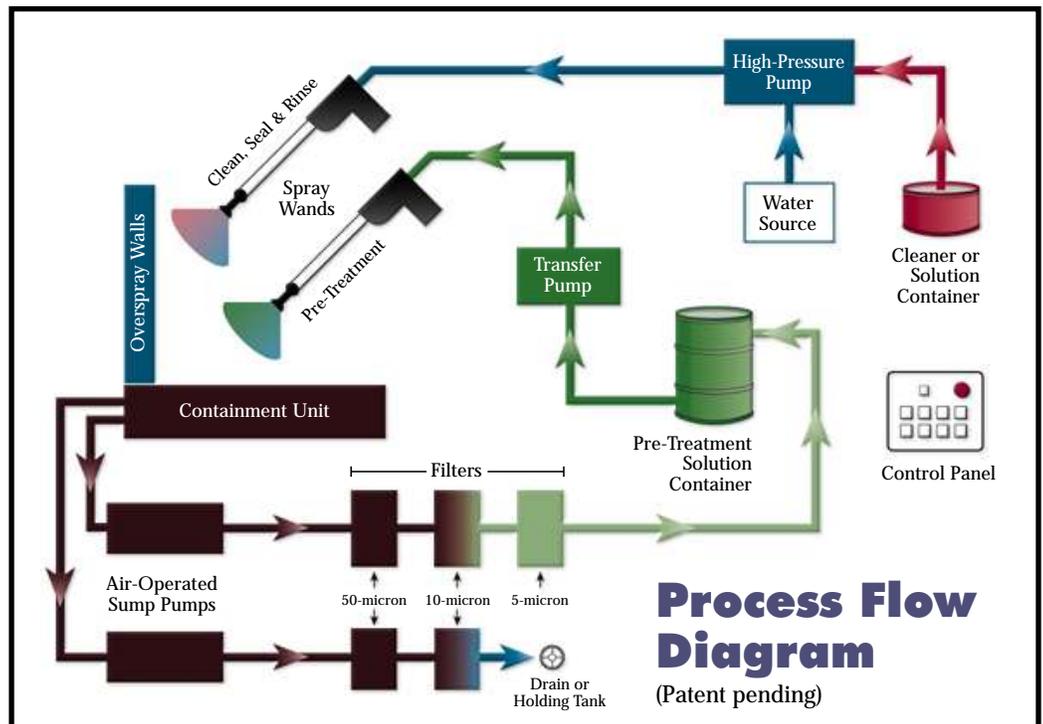
A Low-Volume/High-Pressure Pump (2 gpm/up to 1500 psi) is used with a Stainless Steel Spray Wand to remove all soils and contaminants from the metal substrate and features a cleaning-chemical-solution injector port for greater cleaning flexibility.

Pneumatic Valves control the flow of solutions throughout the system during the wash, rinse and pretreatment processes.

A Pretreatment-Solution Transfer Pump is used to transfer pretreatment chemicals at 60 psi to the Pretreatment Spray Wand. The transfer pump also recirculates the solution in the heated pretreatment-solution container to maintain consistent temperature.

Recycling and containment of all phosphates or pretreatment chemicals reduces cost and supports environmental initiatives.

Pretreatment chemical solution control is maintained by standard titration methods.



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