

PHOSPHATER™

BATCH WASH SYSTEM FOR PHOSPHATE PRETREATMENT AND DEGREASING



RIVEER™

Engineered Wash Water
Recovery Systems

The Solution is Clear with Riveer™

PHOSPATER™ Batch Wash System for Phosphate Pretreatment and Degreasing

- RECYCLING SYSTEM DESIGNED FOR PHOSPHATE CLEANING & DEGREASING
- CUTS CHEMICAL USE BY UP TO 80%
- WORKS WITH CLEANERS, PHOSPHATE AND ZIRCONIUM
- ENVIRONMENTALLY COMPLIANT; CLOSED LOOP
- HIGH-PRESSURE WASH WAND APPLICATION
- INCREASE THROUGHPUT, ENSURE PART CLEANLINESS, REDUCE LABOR

FEATURING THE RTS CLOSED-LOOP FILTRATION SYSTEM

This closed-loop washing and filtration system is ideal for phosphate cleaning and degreasing applications. Used for pretreatment cleaning in hundreds of finishing systems around the world, the Phosphater™ power washes with phosphate solutions, contains the run-off either in a wash rack, a concrete containment pad or an enclosed wash booth and recycles the solution for reuse.

This zero discharge system allows for environmentally safe washing and employs a stainless filtration system, many of which have been in constant use in this application since 1998. The unit comes with a regenerative blower to suck up wash water from Riveer above ground wash racks or shallow sumps. Sump pumps can also be used when appropriate.

The Phosphater is ideal for pretreatment applications in powder, paint, E-coat, and plating systems. Because the wash solution is being recycled, users can wash as long as necessary without worrying about sending thousands of dollars of chemistry down the drain. The Riveer Phosphater has saved powder coaters tens of thousands of dollars every year by recycling phosphate pre-treatment chemicals. Whether you are degreasing equipment or acid washing parts, the Phosphater can save you time and money while avoiding EPA fines.





FAST TO SETUP, EASY TO OPERATE, SIMPLE TO MAINTAIN

- The all stainless steel Phosphater uses vacuum to recover wash water. Standard filtration with this system includes a pre-filter to capture gross contaminants prior to the filtration chamber, oil coalescing and oil skimming, ozone injection, 24/7 recirculation, and absolute filtration.
- The standard Phosphater is closed-loop (the effluent water may be disposable under some conditions in some areas, check with your local water treatment plant).
- Each Phosphater wash rack or booth is watertight and seals securely to adjoining racks to prevent gaps in containment. Riveer can build you custom size pads with built-in high speed recovery for quick changeover from wash to rinse without delay or cross contamination.

WORKHORSE FEATURES

- Built-in regenerative blower provides suction to recover water from steel racks, in-ground sumps in real time
- GripStart™ operation: auto start/stop function using wash wand
- Recycles phosphate solutions, alkaline solutions, rinse solutions, and water
- Stainless steel
- 250-gallons of solids settling
- NEMA 4 electrics
- PLC controlled
- Continuous ozone injection
- Oil coalescing
- Automatic oil skimmer
- Absolute filtration to 5 micron
- 24/7 Continuous recirculation



Riveer engineered wash water recovery systems offer chemical reclamation, solids separation, and oil coalescing all in a closed loop process.



PHOSPATER™ Batch Wash System for Phosphate Pretreatment and Degreasing



PHOSPATER™ FEATURES:

- Voltages: 230V 1 PH, 230-480V 3PH
- Heating: Electric or Natural Gas
- Flow rates cleaner/phosphate stage: 4-5 GPM @ 1200-4000 PSI
- Flow rates rinse/sealer: .5-4 GPM @ 200-1200 PSI
- Pump materials: 316 Stainless steel, Viton, and brass pumps
- Motors: All TEFC motors for easy maintenance
- Tanks: 304L stainless, polyethylene, and polyethylene lined FRP
- Cleaner/Phosphate Tank capacity: 500-1000 gallons
- Rinse/Sealer Tank capacity: 100-500 gallons
- Optional digital auto-dosing system
- Optional RO system with auto feed to all stages
- Multi-Gun operations with multi-stage lock-out prevents operator errors
- Single Stage through Seven Stage operations for batch parts
- Alkaline wash–Rinse–Iron Phosphate–Rinse–Sealer–RO Rinse
- Compatible with ambient and heated chemistries; nano-technology products
- Operate chemistry from aluminum etch through caustic degreasers in the same batch space
- All processes are sequestered for near zero cross contamination
- Integrated controls allow the process to be duplicated and strictly controlled
- Modular design allows simple change over for multi-metal facilities
- Available multi-operator systems for very large parts
- Excellent water quality is ensured with high capacity absolute filters and constant bath turn-over
- Ozone injection maintains water quality
- Meets the quality and performance of a multi-stage line washer in one manual batch system

PHOSPATER™ SPECIFICATIONS

Capacity: 250 gallons plus holding tank(s)

Weight: 1200 lbs.

Dimensions: 102" L x 48" W x 50" H

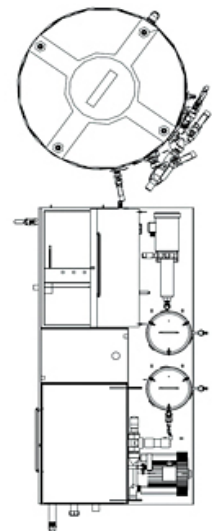
Electric: 208, 240, 480 single or three phase

Process Rate: 0 – 20 GPM

PSI: 500 – 4000

GPM: 4 – 10

Material: 304 stainless steel



Riveer employs a quality management system that is ISO 9001:2008 certified.
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