

Wastewater Recycling System



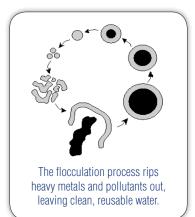
WRS-2

The BHS Wastewater Recycling System (WRS) is an automated, single structure, recycling system, providing on-site wastewater management. The WRS treats, filters and processes industrial wastewater to remove hazardous contaminants and particulates, ensuring that the recycled water is clean.

Functionality

As the WRS receives dirty wastewater, an automatic pH adjustment control is activated to raise the water to a neutral pH level of 8. The wastewater is then treated with a reactive separating agent to encapsulate the contaminants and form large flocculent. Using gravity flow, the treated water is separated from the flocculent by passing through an automatic deep bed filter. The captured sludge is conveyed to a sludge catch bin, where it dries and hardens into a non-hazardous, non-leachable sludge. The sludge is certified landfill friendly for standard trash disposal. The clean water can either be drained or held in a storage tank for reuse.

This process can be performed in batches or in a closed loop system, continuously supplying clean water to a Battery Wash Cabinet (BWC). Reference literature *PL-2400 Battery Wash Equipment* for more information on the BWC.



Available Models

WRS-1

WRS-2

WRS-2-KIT

Available Options

Mobile Tank (WRS-MT)

330 gal (1249 L) Portable tank for transport of wastewater from other locations

Clean Water Holding Tank (WRS-MT2)

330 gal (1249 L) Portable tank stores clean water intended for reuse, and includes recycle module, pressurization pump, and ozone purification

Note: Option is available on WRS-2 only.

Industrial Applications

| Types of Industry | Waste Streams | |
|------------------------------------|---|--|
| General metal working | Cutting and grinding oils, water soluble coolants | |
| Metal finishing, polishing | Burnishing, vibratory, deburring effluent | |
| Metal fabricators | Parts washer effluent | |
| Rental and repair centers | Steam cleaning, pressure washer effluent | |
| General industry | Mop water, compressor condensate, oils, metals and suspended solids | |
| Painting, screening, paint coating | Inks, latex solutions | |
| Die casting | Die lube, quench pits, machine, run-off | |
| Plating, general manufacturing | Dissolved metals emulsified | |
| Truck wash centers | Emulsified oil, suspended solids | |

Features & Benefits

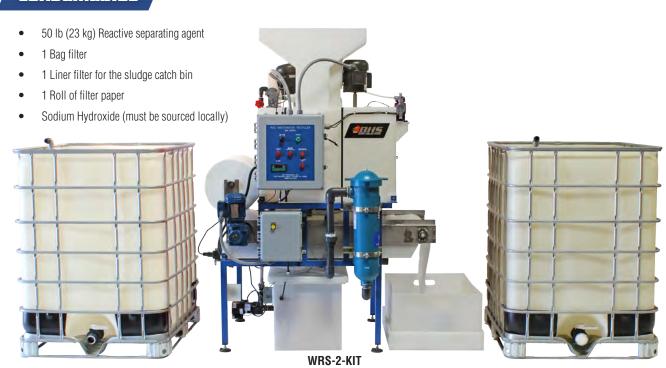
- Reclaims wastewater at a rate of two gallons per minute
- Automatic pH adjustment control neutralizes water for removal of hazardous materials
- Specially formulated reactive separating agent used in flocculation process removes soils, hydrocarbons, metals, etc. from wastewater
- Sludge generated is non-hazardous, non-leachable, and certified landfill friendly for standard trash disposal
- Wash water effluent micron filtered both before & after treatment
- Produces clean, reusable water
- Visual and audible alarms for operator notification on low supply of paper, flocculent, or caustic
- Alarm activation disables WRS, preventing untreated water from going down the drain
- Ozone purification removes bacteria for odor control*
- Independently lab tested and approved to safely process wastewater while meeting EPA and NJDEP regulations
- WRS-2-KIT includes wash station transfer pump

^{*} Standard on WRS-1, included on option WRS-MT2

Product Specifications

| | WRS-1 | WRS-2 | WRS-2-KIT |
|---------------------|----------------------|---|---|
| Input Voltage | 460 V / 3 ph / 60 Hz | 120 V / 1 ph / 60 Hz | 120 V / 1 ph / 60 Hz |
| AC Current Draw | 15 A | 50 A, 2 separate circuits required: (1) 20 A and (1) 30 A | 50 A, 2 separate circuits required: (1) 20 A and (1) 30 A |
| Water Pump Capacity | 75 psi / 13 gal/min | 14 gal/min | 14 gal/min |
| Water Pump Motor | 1 hp | 1/10 hp | 1/10 hp |
| Sump Pump Capacity | 15 gal/min | 42 gal/min | 42 gal/min |
| Reservoir Capacity | 185 gal / 700 L | _ | _ |
| Water Outlet | 0.75" / 19 mm | 0.5" / 13 mm | 0.5" / 13 mm |
| Return Inlet | 1"/ 25 mm | 0.75" / 19 mm | 0.75" / 19 mm |
| Filter Capacity | 9 ft² | 9 ft ² | 9 ft² |
| Overall Width | 51.5" / 1308 mm | 48" / 1219 mm | 48" / 1219 mm |
| Overall Length | 77.5" / 1969 mm | 72" / 1829 mm | 72" / 1829 mm |
| Overall Height | 89" / 2261 mm | 89" / 2261 mm | 89" / 2261 mm |
| Weight | 2,100 lb / 953 kg | 550 lb / 249 kg | 550 lb / 249 kg |
| pH Metering Type | Diaphragm | Diaphragm | Diaphragm |
| Dirty Water Tank | _ | _ | 330 gal / 1249 L |
| Clean Water Tank | _ | _ | 330 gal / 1249 L (Includes recycle module) |

Consumables



Reference Literature SM-1177 for more information on the WRS-2-KIT.







