

WCP Series

WATER TREATMENT SYSTEMS

Our recycle systems are designed to remove free hydrocarbons and filter the water to be sent back through a pressure washer. The systems come standard with pH and ORP injection, and are designed for corrosion resistance by utilizing poly tanks and recycled-plastic skids.



Clarifier Wash-Water Recycle Systems

These wash-water recycle systems combine enhanced design with state-of-the-art technology to offer:

- CSA listed NEMA-4 rated corrosion-proof control panel for safe and reliable operation
- Hose connectors are designed for easy accessibility and quick installation; the connectors are clearly marked
- Pumps are easily accessible
- Recommended Air Compressor AC1-HE02-05M1 for use with the Auto-backwash models
- Cone-shaped tank for easy handling of accumulated solids
- Quality recycled wash-water without common odor problems
- Heavy-duty, corrosive-resistant base for years of maintenance-free operation
- CSA approved control panel which meets the requirements of the US and Canadian standards for an Industrial Control Panel.

The WCP Series is perfect for the following applications:

- Rental Yards
- Golf Courses
- Heavy Equipment Dealers
- Trucking Facilities
- Military Bases
- Truck Rental Fleets
- Diesel Repair Facilities
- Forklift Washing Operations
- Aircraft Maintenance & Restoration
- Shipyards
- Municipalities/State DOTs
- Oil Fields
- Engine Rebuilders & Manufacturers



WCP-30AB-0M10



Auto-backwash models (air required 60 to 100-PSI)

AM1-HE02-05M

4.3 CFM @ 90 PSI

2.0 HP, 120V, 14.0A Electric Motor

5-Gallon Receiver Tank



WCPB Series

-Special-build model

- WCPB Series allows the end user to switch from a mechanical filtration unit to a biological unit depending on certain factors. The end user may change the unit depending on time of year, temperature, contaminants in water pH or other factors.

- Contact us for more information.

MODEL NUMBER	FLOW RATE	CLARIFIER TANK	MEDIA FILTER	CARTRIDGE FILTER	CARBON FILTER	OIL COALESCING AREA	OZONE GENERATOR	POWER REQUIREMENTS	DIMENSIONS (LxVxH)	SHIP WT.
WCP-10-0M10	0-10 GPM	300 gallons	250 lb.	150 sq. ft.	110 lb.	275 sq. ft.	6 grams/day	230V, 1Ø, 26.0A	5ft.x8ft.x9ft.	2400 lb.
WCP-10AB-0M10*	0-10 GPM	300 gallons	250 lb.	—	110 lb.	275 sq. ft.	6 grams/day	230V, 1Ø, 30.0A	5ft.x8ft.x9ft.	2400 lb.
WCP-10AB-0M30*	0-10 GPM	300 gallons	250 lb.	—	110 lb.	275 sq. ft.	6 grams/day	230V, 3Ø, 15.0A	5ft.x8ft.x9ft.	2400 lb.
WCP-20-0M10	0-20 GPM	600 gallons	350 lb.	400 sq. ft.	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 26.0A	6ft.x8ft.x9ft.	2500 lb.
WCP-30-0M10	0-30 GPM	600 gallons	900 lb.	400 sq. ft.	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 38.0A	6ft.x9ft.x9ft.	3470 lb.
WCP-30AB-0M10*	0-30 GPM	600 gallons	900 lb.	—	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 38.0A	6ft.x9ft.x9ft.	3470 lb.
WCP-30AB-0M30*	0-30 GPM	600 gallons	900 lb.	—	165 lb.	425 sq. ft.	12 grams/day	230V, 3Ø, 20.0A	6ft.x9ft.x9ft.	3470 lb.

*Auto-backwash models (air required 60 to 100-PSI)

230/208/460V 3-phase available.

OPTIONS:

PART NUMBER	DESCRIPTION	FITS MODELS
WX-0014	Pinch valve assembly - Pinch valve, bladder style (used on cone-bottom tanks), 2-inch, 230VAC, single phase, may be accommodated as 115VAC, single phase	All models
WX-0123	460V, 3Ø	WCP-10AB-0M30

WCP Series *Process & Flow Description*

1. Surface-Mount Sump Pump - Untreated wash-water is introduced into the system via a 1.0-HP surface-mount sump pump, which is included with the unit.

2. Clarifier Oil/Water/Solids Separator - As the water flows through the cone-shaped oil/water/solids separator, it changes directions countless times as the water is directed and redirected through cone baffles, and hundreds of square feet of oleophilic (oil attracting) coalescing media. Mechanically emulsified oil particles are attracted from the water to the oleophilic media, and float to the surface. Once on the surface, the oil is skimmed off into an oil decanter for easy disposal. Fine silt and particulates are dropped to the bottom of the cone for easy flushing and disposal of the accumulated solids.

3. Corona Discharge Ozone Injection - Water in the cone tank is injected with a high concentration of ozone via a corona discharge ozone injector system, tiny bubbles saturate the water in the cone tank, killing live bacteria instantly on contact.

4. Oil Decanter - Oil skimmed from the surface of the clarifier tank is captured in a conveniently located oil decanter. Oil can be removed easily for appropriate disposal.

5. Solids Separation Chamber - Solids from the wastewater stream settle at the base of the clarifier tank. With the opening of a single valve, solids are easily dropped into a bag filter in the solids separation chamber for effective capture and easy disposal. The bag filter is suspended on a de-watering tray with drainage returning to the in-ground collection pits.

6. Customized Multi-Media Filter (located at the back of the skid) - Once the water has been treated for oil and solids removal, it is then pushed through a customized multi-media filter which contains a special media blend to filter out particulates down to 25-microns.

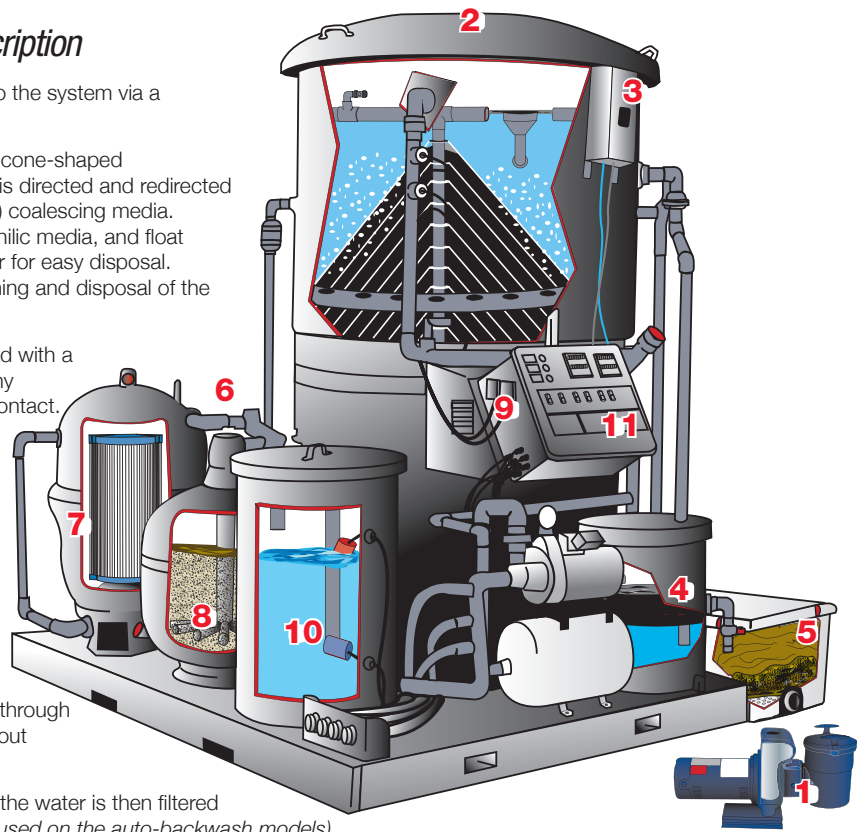
7. Reusable Polyester Filter - Once the larger particulates are removed, the water is then filtered through hundreds of square feet of reusable polyester 30-micron filters. (Not used on the auto-backwash models)

8. Activated Carbon Filter - The final treatment stage of the system occurs as the water is filtered through activated carbon which absorbs hydrocarbons, herbicides, pesticides, some metals and dozens of the carbon-based constituents. Activated carbon also works as a polisher for treated water to remove chlorides.

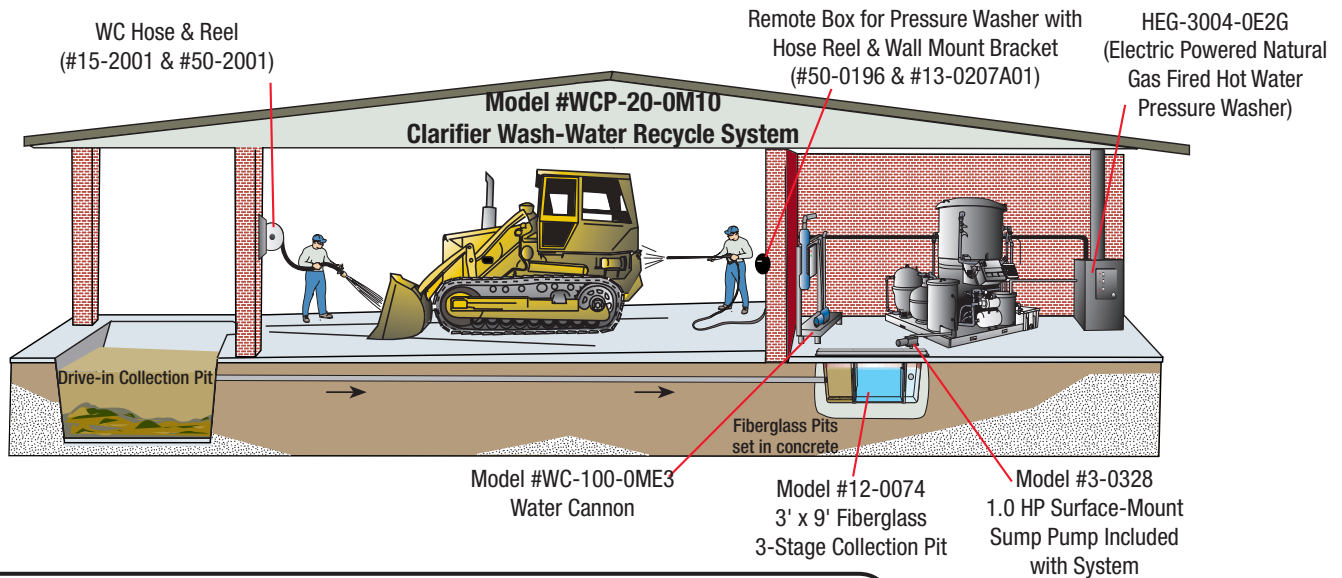
9. ORP/pH Controller - For longer term control of bacteria, the ORP injection system automatically measures and injects a germicide to control odor by killing odor-causing bacteria. The automatic pH control system keeps the water at an appropriate pH level so the germicide is effective at killing bacteria and controlling odor.

10. Treated Water Holding Tank - Treated water is delivered for reuse at 30-PSI to 50-PSI via a pressurized water storage tank.

11. Electrical Control Panel - NEMA-4 rated corrosion-proof control panel for safe and reliable operation, CSA listed.



Sample Equipment Wash Pad Application



The Importance of a Proper Pit System

Once equipment is washed, the untreated wash-water flows into your pit system. A proper pit system for your application is the first step in proper wash-water treatment, and a critical element in any wash-water recycle system.

We can help you determine the pit system configuration that works best with your application.

Information on Fiberglass Pits
available in the Pit System Brochure.

