

WCP Series | Clarifier Wash Water Recycle Systems

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



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

- Cone-shaped tank for easy handling of accumulated solids
- Quality recycled wash water without common odor problems
- Easy operation and maintenance
- 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



WCP-30AB-0M30



CSA listed NEMA-4 rated corrosion-proof control panel for safe and reliable operation



Hose connectors are clearly marked and designed for easy accessibility and quick installation

Recommended Air Compressor
AM1-HE02-05M for use with
the auto-backwash models

AM1-HE02-05M
4.2 CFM @ 90 PSI
2.0 HP, 120V, 15.0A Electric Motor
5-Gallon Twin Tank Receivers



WCP Series | Clarifier Wash Water Recycle Systems



Model Number	Flow Rate	Clarifier Tank	Media Filter	Cartridge Filter	Carbon Filter	Oil Coalescing Area	Ozone Generator	Power Requirements	Dimensions (LxWxH)	Ship Wt.
WCP-10-OM10	0-10 GPM	300 gallons	250 lb.	100 sq. ft.	110 lb.	275 sq. ft.	6 grams/day	230V, 1Ø, 30.0A	5x8x9ft.	2400 lb.
WCP-10AB-OM10*	0-10 GPM	300 gallons	350 lb.	-	110 lb.	275 sq. ft.	6 grams/day	230V, 1Ø, 30.0A	5x8x9ft.	2400 lb.
WCP-10AB-OM30*	0-10 GPM	300 gallons	350 lb.	-	110 lb.	275 sq. ft.	6 grams/day	230V, 3Ø, 15.0A	5x8x9ft.	2400 lb.
WCP-20-OM10	0-20 GPM	600 gallons	350 lb.	400 sq. ft.	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 30.0A	6x8x9ft.	2500 lb.
WCP-30-OM10	0-30 GPM	600 gallons	900 lb.	400 sq. ft.	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 35.0A	7x9x9ft.	3470 lb.
WCP-30AB-OM10*	0-30 GPM	600 gallons	900 lb.	-	165 lb.	425 sq. ft.	12 grams/day	230V, 1Ø, 35.0A	7x9x9ft.	3470 lb.
WCP-30AB-OM30*	0-30 GPM	600 gallons	900 lb.	-	165 lb.	425 sq. ft.	12 grams/day	230V, 3Ø, 20.0A	7x9x9ft.	3470 lb.

*Auto-backwash models (air required 60 to 100-PSI)
230/208/460V 3-phase available on all models as options.

Options:		
Part Number	Description	Fits Models
WX-0039	Pinch valve assembly - Pinch valve, bladder style (used on cone-bottom tanks), 2-in., 120VAC, single phase	Manual backwash models
WX-0123	460V, 3Ø - Upgrades 230V model to operate at 460V	WCP-10AB-OM30

Replacement Fiter Elements:		
Part Number	Description	Fits Models
19-0263	Filter - Replacement filter for #19-0627, 30-micron, 150 sq. ft., 3 filters needed	WCP-10
19-0264	Filter - Replacement filter for #19-0630, 30-micron, 400 sq. ft., 3 filters needed	WCP-20 & WCP-30
19-0274	Filter - Replacement filter for #19-0632, 30-micron, 100 sq. ft., 1 filter needed	WCP-10



Filter, 19-0265

Replacement Media:		
Part Number	Description	Fits Models
33-0302	Activated carbon - Order per pound	All models
33-0303	Gravel #3 - Order per pound	All models
33-0304	Garnet #12 - Order per pound	All models
33-0305	Garnet #50 - Order per pound	All models
33-0306	Filter ag - Order per pound	All models
33-0318	Organoclay - Custom media, order per pound	All models
33-0403	Garnet #80 - Order per pound	All models
33-0449	Large funnel - Funnel helps you load media	All models
33-0450	Zeolites - Custom media, best for red clay, 50 lb. bag, order per pound	All models



Activated Carbon



Gravel #3



Garnet #12



Garnet #50



Filter Ag



Organoclay

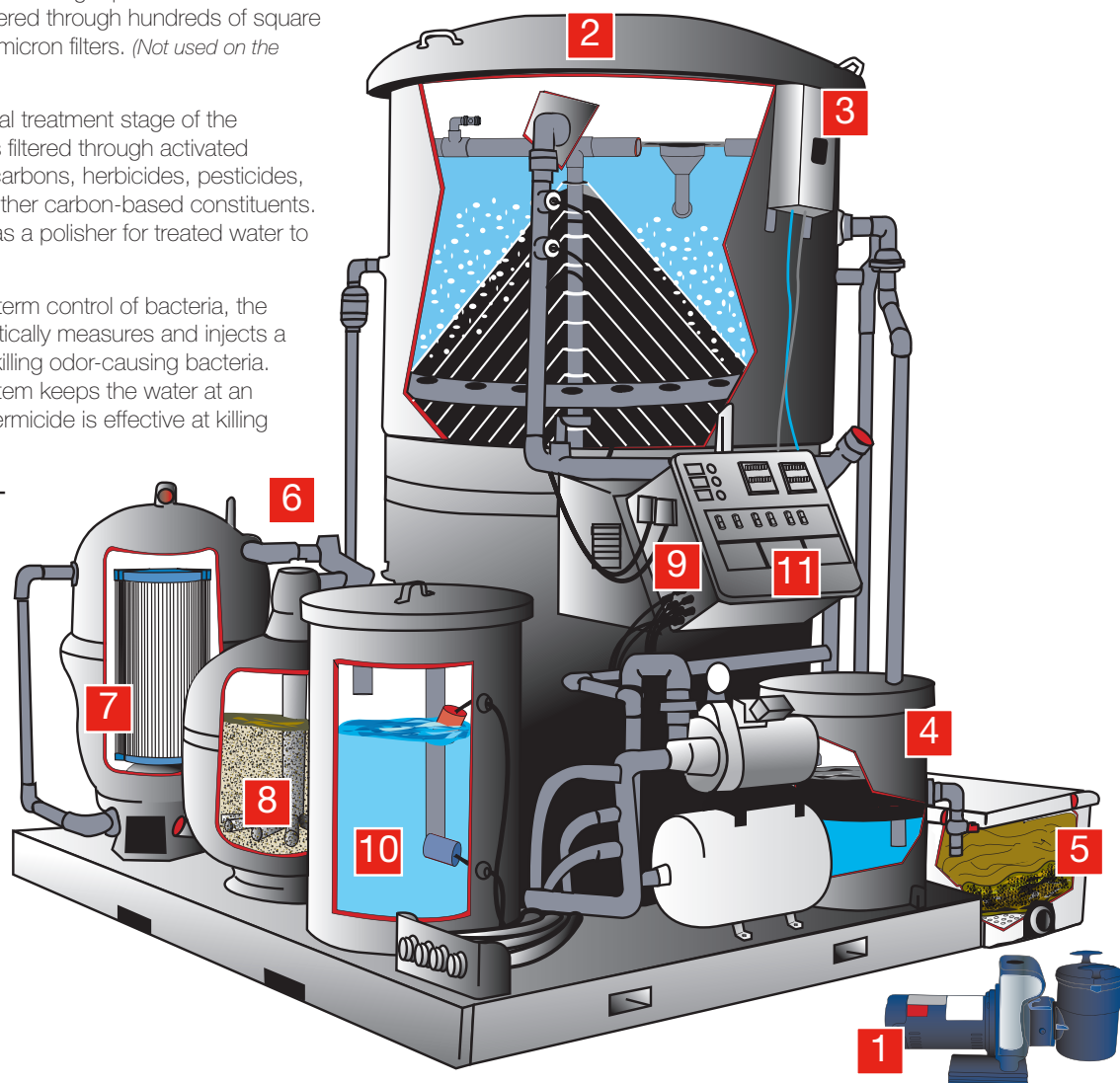


Garnet #80

WCP Series | Process & Flow Description



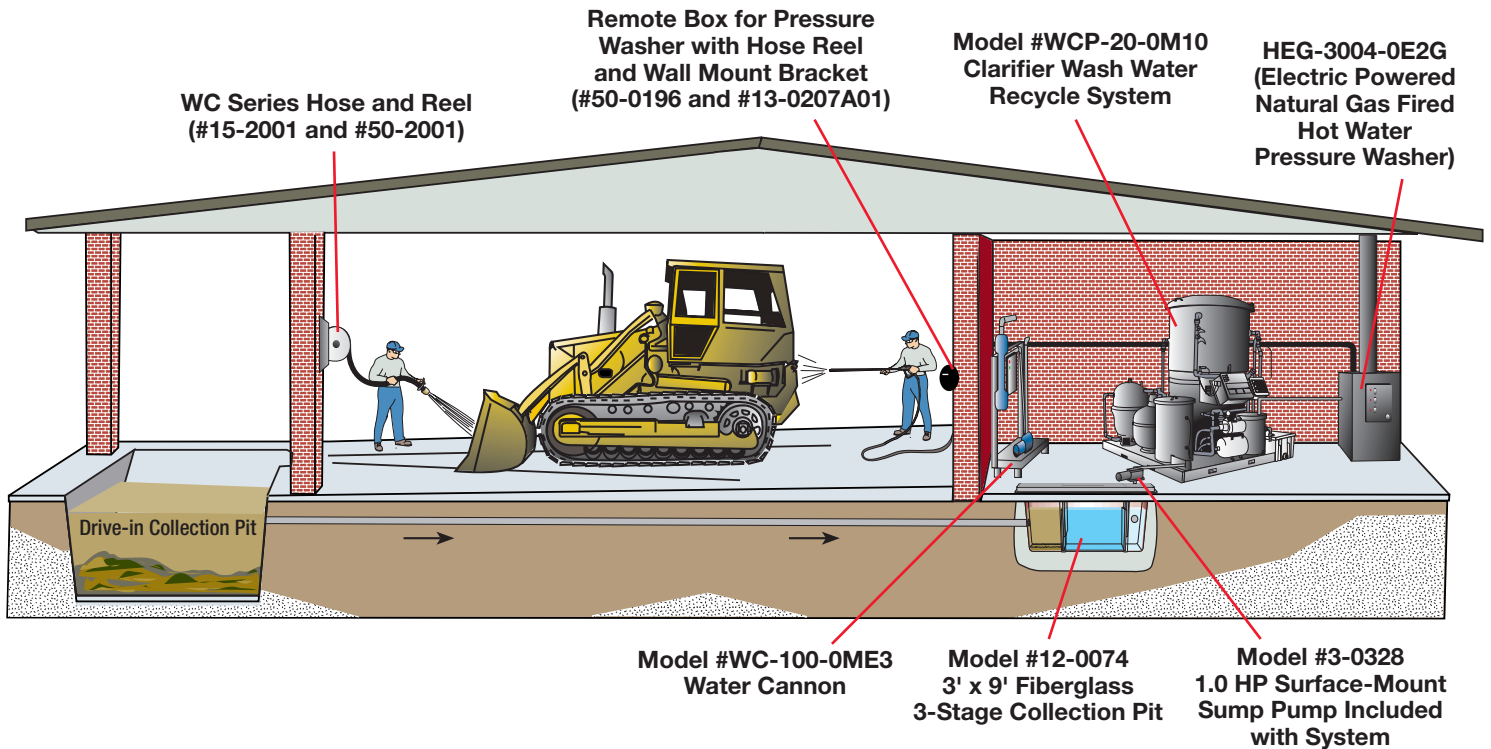
- 1. Surface-Mount Sump Pump** - Untreated wash water is introduced into the system via a 1.0 HP surface-mount sump pump, which is included with the system, located on the unit.
- 2. Clarifier Oil/Water/Solids Separator** - As the water flows through the cone-shaped oil/water/solids separator, it changes 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 sloped stainless-steel tank for easy flushing and disposal of the accumulated solids.
- 3. Corona Discharge Ozone System** - 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. Ozone also breaks up emulsified oils, allowing them to coalesce and float to the top of the tank for separation into the oil decanter.
- 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. Sludge Box** - 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 dewatering 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 other 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 In Holding Tank** - Once the water is treated, it is pressurized where it will be ready for reuse at 30-PSI to 50-PSI.
- 11. Electrical Control Panel** - CSA listed NEMA-4 rated corrosion-proof control panel for safe and reliable operation.



WCP Series | Sample Equipment Wash Pad Application

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 and Restoration
- Shipyards
- Municipalities/State DOTs
- Oil Fields
- Engine Rebuilders and Manufacturers



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.

Consult your dealer to determine the pit system configuration that works best for your application.

Information on fiberglass pits is available in the Pit Systems Brochure.

WCPB Series

- Special-build model
- The 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 your dealer for more information.

