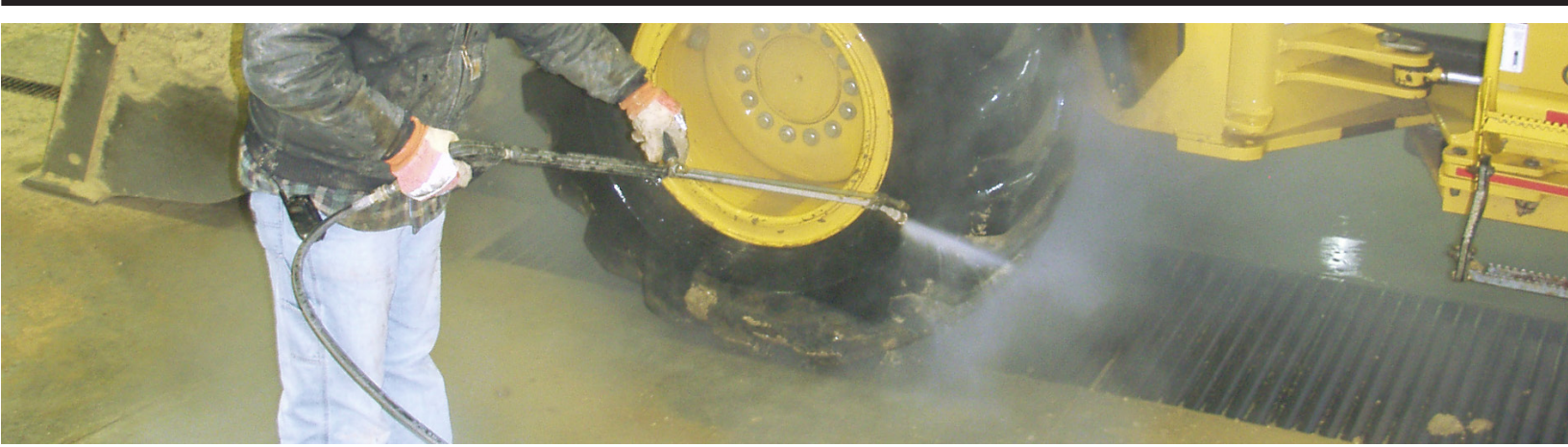




Water Treatment Systems

WLP Series

WCP Series



The Mi-T-M Corporation continually strives to develop advanced water treatment systems for water conservation and energy efficiency. Mi-T-M water treatment systems are the ultimate cost effective and energy efficient way to protect the environment and safeguard future water supplies.

Easy to operate and maintain, the WLP and WCP Series Water Treatment Systems are designed to remove free hydrocarbons and recycle washwater without common odor problems. These systems feature a surface-mount sump pump, corona discharge ozone injection, multi-media and activated carbon filters. Choose from the WLP Series, advanced wash-water recycle systems with three-stage oil, water, and solids separators or the WCP Series, clarifier water treatment systems with cone-shaped separators and oil decanters.

Perfect for rental yards, trucking facilities, military bases, shipyards, municipalities and oil fields.

Committed to excellence for 40 years, Mi-T-M Corporation designs and manufactures each water treatment system with the highest quality materials and service. Mi-T-M Water Treatment Systems provide a better tomorrow by protecting our environment today.



WLP Series

Advanced Wash-Water Recycle Systems

Mi-T-M's 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. All systems are designed for corrosion resistance by using stainless-steel tanks.



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 Mi-T-M Air Compressor AC1-HE02-05M1 for use with the Auto-backwash models.



WLP-20AB-0M11

Model Number	Description
AC1-HE02-05M1	4.1 CFM @ 100 PSI 2.0 HP, 120V, 14.0A Electric motor

Model Number	Flow Rate	Media Filter (Custom Mix)	Cartridge Filter	Carbon Filter (Degassed)	Power Requirements	Air Required	Dimensions (LxWxH)	Ship Wt.
WLP-08-0M10	0-8 GPM	350 lbs.	150 sq. ft.	110 lbs.	230V, 1Ø, 21.0A	—	6 ft. x 5 ft. x 52 in.	1,475 lbs.
WLP-20-0M10	0-20 GPM	550 lbs.	400 sq. ft.	110 lbs.	230V, 1Ø, 25.0A	—	8 ft. x 5 ft. x 52 in.	2,435 lbs.
WLP-20AB-0M11*	0-20 GPM	550 lbs.	—	110 lbs.	230V, 1Ø, 25.0A	60-100 PSI	8 ft. x 5 ft. x 52 in.	2,435 lbs.
WLP-20AB-0M31*	0-20 GPM	550 lbs.	—	110 lbs.	230V, 3Ø, 13.0A	60-100 PSI	8 ft. x 5 ft. x 52 in.	2,435 lbs.
WLP-30-0M10	0-30 GPM	600 lbs.	400 sq. ft.	110 lbs.	230V, 1Ø, 25.0A	—	8 ft. x 5 ft. x 52 in.	2,735 lbs.
WLP-40-0M10	0-40 GPM	900 lbs.	600 sq. ft.	165 lbs.	230V, 1Ø, 35.0A	—	(2) 8 ft. x 5 ft. x 60 in.	3,200 lbs.
WLP-40AB-0M11*	0-40 GPM	900 lbs.	—	165 lbs.	230V, 1Ø, 35.0A	60-100 PSI	7 ft. x 9 ft. x 60 in.	3,100 lbs.
WLP-40AB-0M31*	0-40 GPM	900 lbs.	—	165 lbs.	230V, 3Ø, 17.0A	60-100 PSI	7 ft. x 9 ft. x 60 in.	3,100 lbs.

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

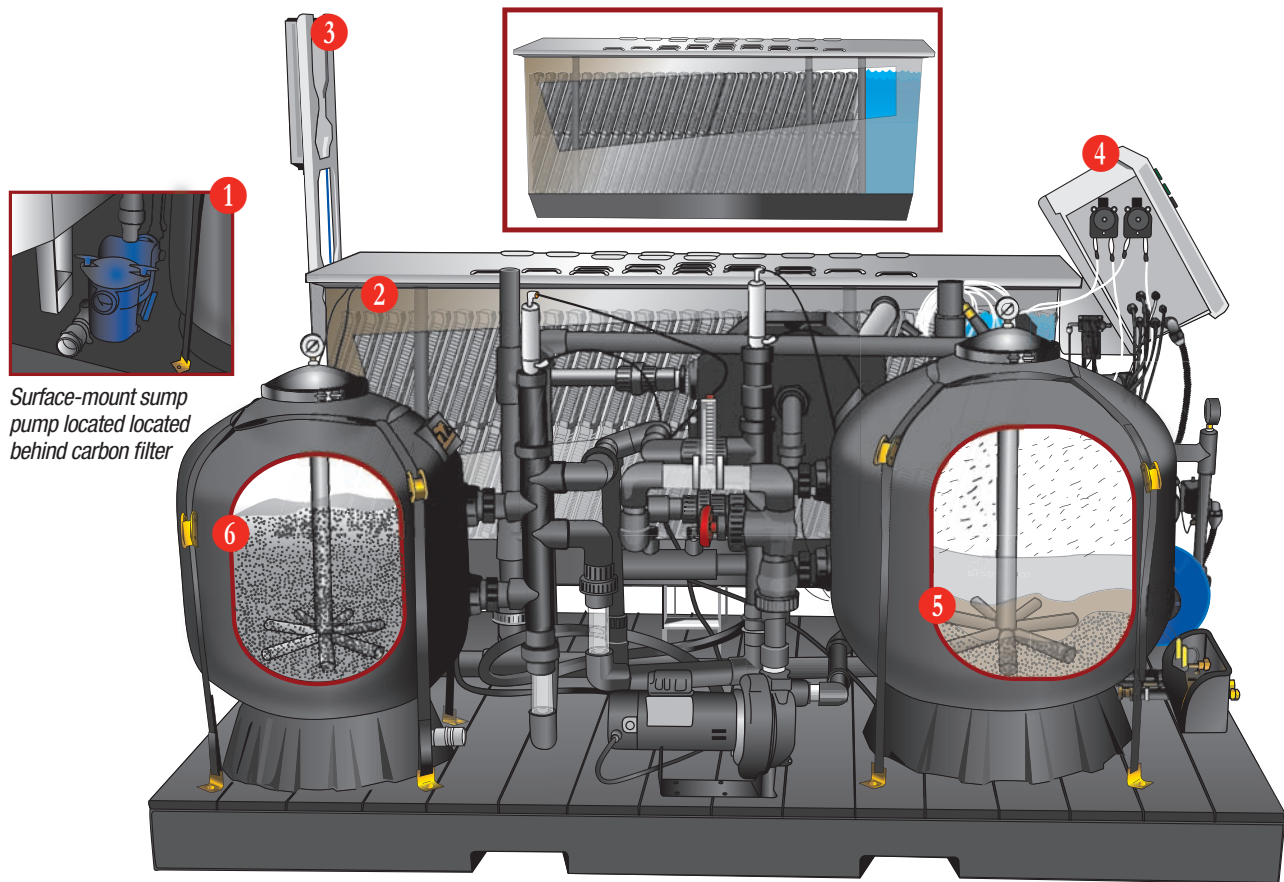
ACCESSORIES

Part Number	Description	Fits Models
32-0538	pH probe	All models
32-0540	ORP probe	All models
32-0693	pH probe (self-cleaning)	All models
32-0694	ORP probe (self-cleaning)	All models

OPTIONS

Part Number	Description	Fits Models
AT-4007	Replacement air filter	Auto-backwash models
WX-0027	Sump pump safety shut-off	All models

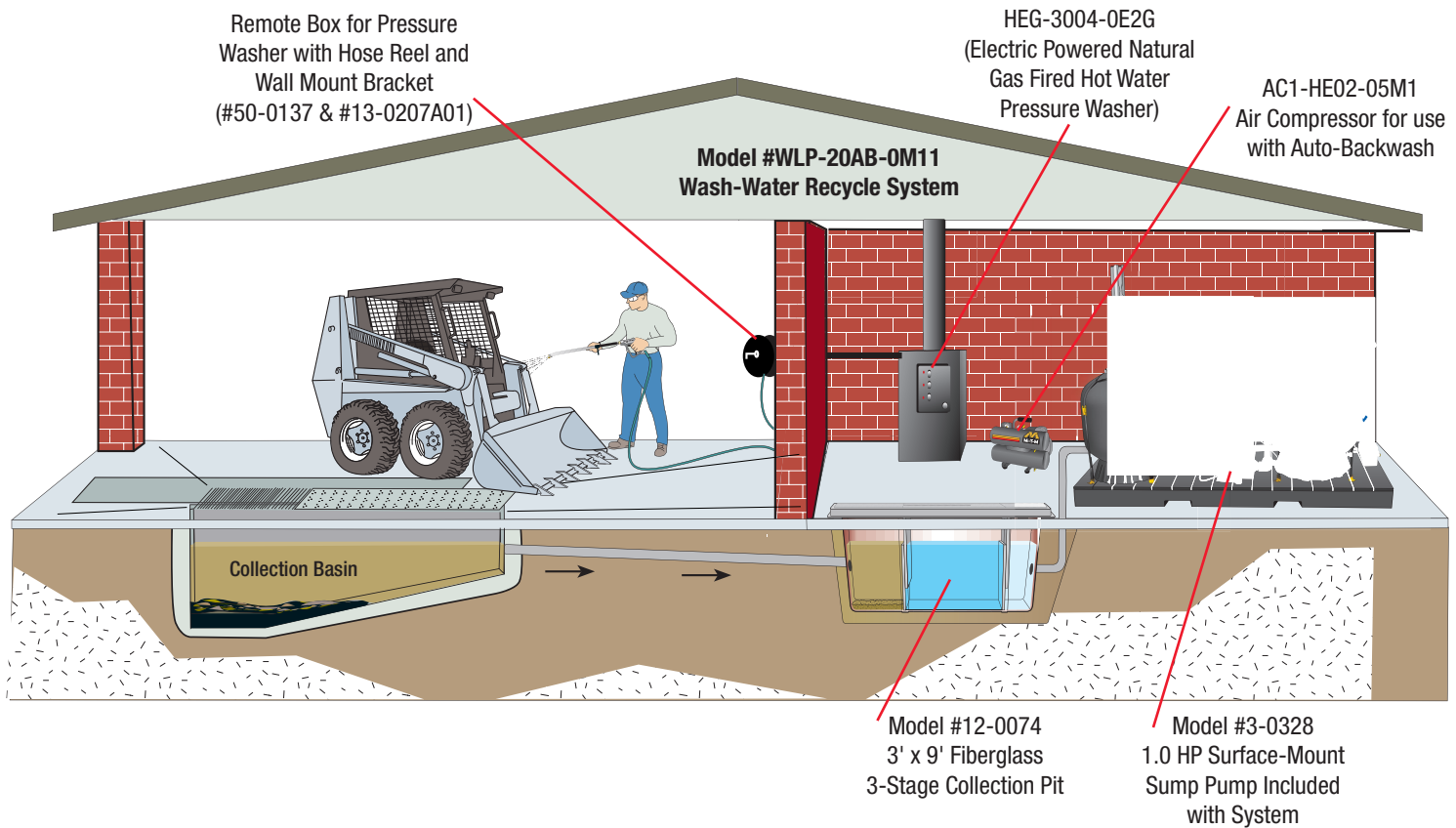
WLP Series Process & Flow



Surface-mount sump pump located located behind carbon filter

1. **Surface-Mount Sump Pump** – Untreated wash-water is introduced into the system via 1.0 HP surface-mount sump pump (included with system), located on the unit.
2. **Advanced Oil/Water/Solids Separator** – As the water flows through the three-stage oil/water/solids separator, it changes directions countless times as the water is directed and redirected through four horizontal baffles, and hundreds of square feet of honey-combed-shaped meshed 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 Injection** – As the wash-water is pumped into the oil/water/solids separator, it is injected with a high concentration of ozone via a corona discharge ozone injector system for a "quick kill" of live bacteria on contact.
4. **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 automated pH control system keeps the water at an appropriate pH level so the germicide is effective at killing bacteria and controlling odor.
5. **Customized Multi-Media Filter** – Once the water has been treated for oil and solids removal, it is then pushed through a customized multimedia filter which contains a special media blend to filter out particulates down to 25 microns.
6. **Activated Carbon Filter** – The final treatment stage of the system occurs as the water is filtered through activated carbon which absorbs hydrocarbons, herbicides, pesticides, metals and dozens of other carbon-based constituents. Activated carbon also works as a polisher for treated water to remove chlorides.

Treated Water in Pressurized Container – Once the water is treated, it is held in a pressurized container where it will be ready for reuse at 30 PSI to 50 PSI.



The WLP Series is perfect for the following applications:

- Rental Yards
- 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

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 Mi-T-M Corporation or your local distributor to determine the pit system configuration that works best with your application.

WCP Series

Clarifier Wash-Water Recycle System

Mi-T-M's 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.



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 Mi-T-M Air Compressor AC1-HE02-05M1 for use with the auto-backwash models.

Model Number	Description
AC1-HE02-05M1	4.1 CFM @ 100 PSI 2.0 HP, 120V, 14.0A Electric motor

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 meets the requirements of the US and Canadian standards for an Industrial Control Panel



WCP-30AB-0M10

Model Number	Flow Rate	Clarifier Tank	Media Filter	Cartridge Filter	Carbon Filter	Oil Coalescing Area	Ozone Generator	Power Requirements	Dimensions (LxWxH)	Ship Wt.
WCP-10-0M10	0-10 GPM	300 gallons	250 lbs.	150 sq. ft.	110 lbs.	275 sq. ft.	6 grams/day	230V, 1Ø, 26.0A	5 ft. x 8 ft. x 9 ft.	2,400 lbs.
WCP-20-0M10	0-20 GPM	600 gallons	350 lbs.	400 sq. ft.	165 lbs.	425 sq. ft.	12 grams/day	230V, 1Ø, 26.0A	6 ft. x 8 ft. x 9 ft.	2,500 lbs.
WCP-30-0M10	0-30 GPM	600 gallons	900 lbs.	400 sq. ft.	165 lbs.	425 sq. ft.	12 grams/day	230V, 1Ø, 38.0A	6 ft. x 9 ft. x 9 ft.	3,470 lbs.
WCP-30AB-0M10*	0-30 GPM	600 gallons	900 lbs.	-	165 lbs.	425 sq. ft.	12 grams/day	230V, 1Ø, 38.0A	6 ft. x 9 ft. x 9 ft.	3,470 lbs.
WCP-30AB-0M30*	0-30 GPM	600 gallons	900 lbs.	-	165 lbs.	425 sq. ft.	12 grams/day	230V, 3Ø, 20.0A	6 ft. x 9 ft. x 9 ft.	3,470 lbs.

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

OPTION

Part Number	Description	Fits Models
WX-0014	2-inch automated dump valve, 230VAC, single phase (may be accommodated as 115VAC, single phase)	All WCP models

1. Surface-Mount Sump Pump – Untreated wash-water is introduced into the system via a 1.0 HP surface-mount sump pump.

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 Separator 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 for effective capture and easy disposal. The bag filter is suspended on a de-watering tray with drainage returning to the in-ground 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.

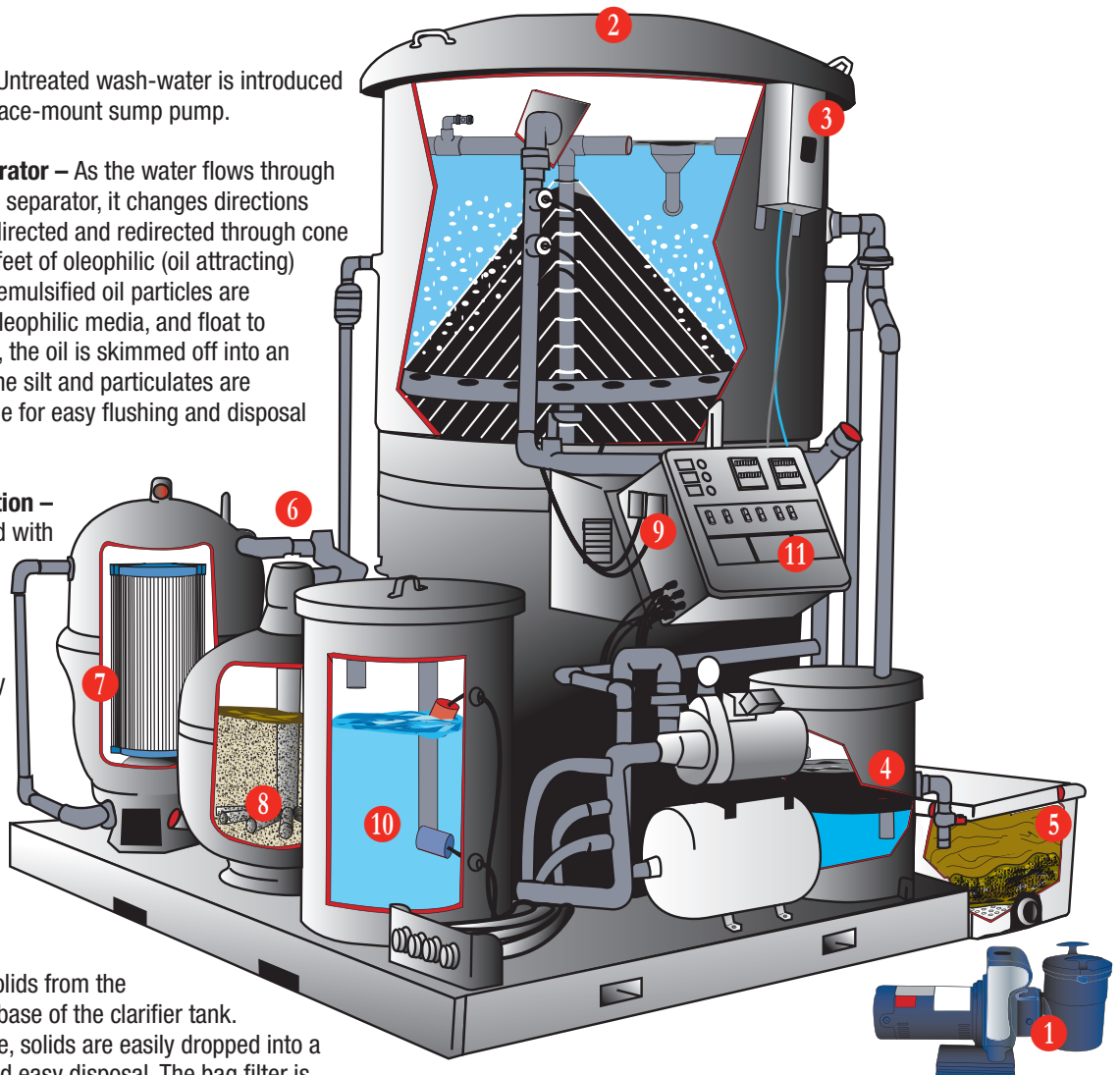
7. Reusable Polyester Filter – Once the larger particulates are removed, the water is then filtered through hundreds of square feet of reusable polyester 30 micron filters. (Not used on auto backwash models)

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.

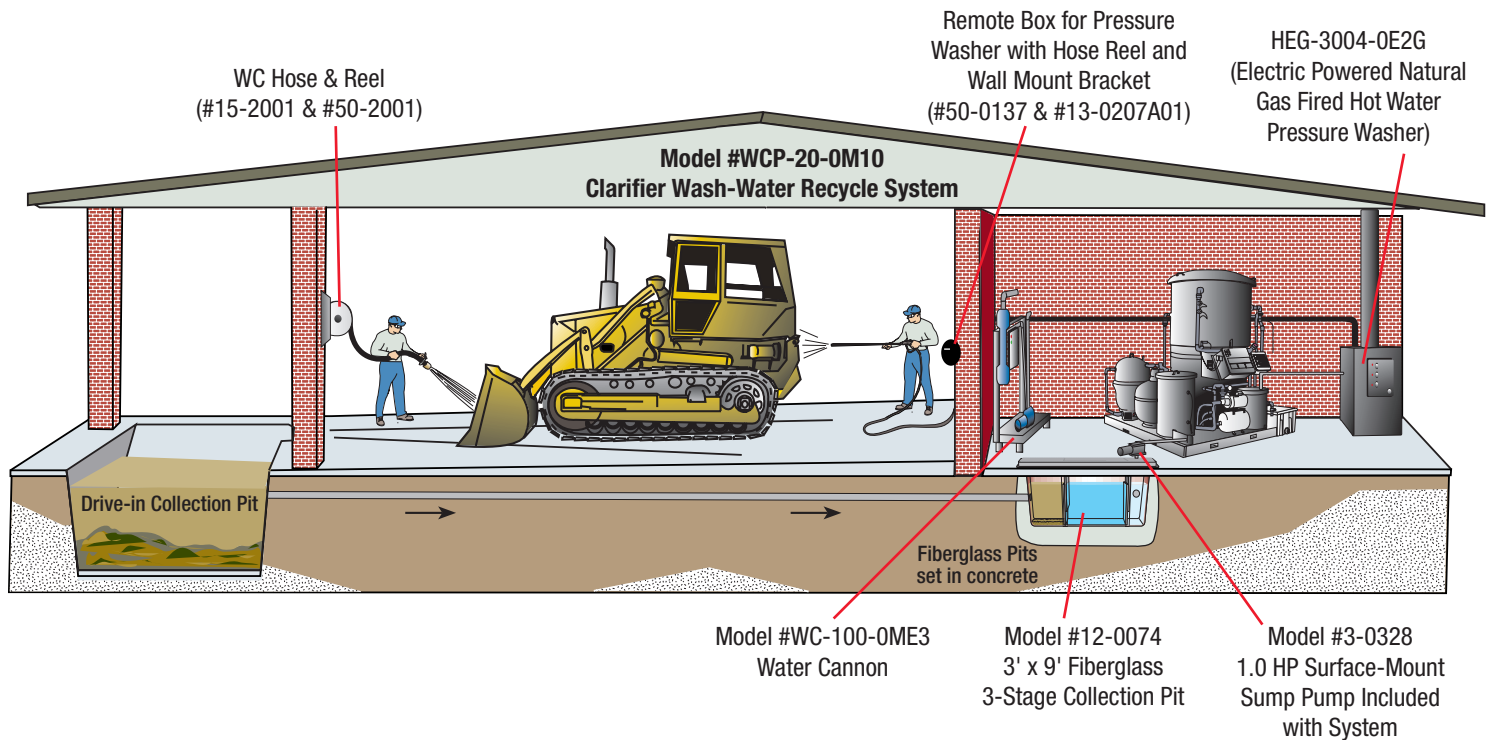
9. ORP/pH Controller – For longer term control of bacteria, the ORP injection system automatically measures and injects a germicide to control odor by killing odor-causing bacteria. The automatic pH control system keeps the water at an appropriate pH level so the germicide is effective at killing bacteria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

The Importance of a Proper Pit System

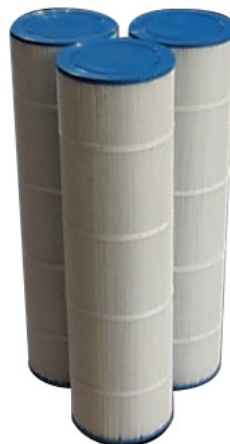
Once equipment is washed, the untreated wash-water flows into your pit system. A proper pit system for your application is the first step in proper wash-water treatment, and a critical element in any wash-water recycle system.

Consult Mi-T-M Corporation or your local distributor to determine the pit system configuration that works best with your application.

WLP & WCP Series

ACCESSORIES

Part Number	Description	Fits Models
19-0263	Filter, 30 micron, 120 sq. ft., 3 filters needed	WLP-08 and WCP-10
19-0264	Filter, 30 micron, 450 sq. ft., 3 filters needed	WLP-20, WLP-30, WCP-20 & WCP-30
19-0265	Filter, 30 micron, 200 sq. ft., 3 filters needed	WLP-40



19-0265

CONSUMABLES

Part Number	Description
58-0019	Safe O3, non-chlorine germicide injected via the oRP controller
AW-4060-0005	Quick release detergent, 5-gallon bucket

REPLACEMENT MEDIA

Part Number	Description
33-0302	Activated carbon, order per pound
33-0303	Gravel #3, order per pound
33-0304	Garnet #12, order per pound
33-0305	Garnet #50, order per pound
33-0306	Filter ag, order per pound
33-0318	Organo clay, order per pound
33-0403	Garnet #80, order per pound
33-0449	Large funnel for media loading
33-0450	Zeolites, 50 lb. bag, best for red clay, order per pound



Activated Carbon



Gravel #3



Garnet #12



Garnet #50



Garnet #80



Filter Ag



Organo Clay



Mi-T-M Corporation
 8650 Enterprise Drive
 Peosta, IA 52068
 800-553-9053
 563-556-1235 fax
 corp@mitm.com
 www.mitm.com

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