# WATER TREATMENT GUIDE

Mi-T-M®
CORPORATION
An Employee Owned Company



Making a positive impact on our environment
for today and future generations.

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Founded 1971

# Mi-T-M CORPORATION

Founded in 1971, Mi-T-M is an employee owned company that has built a reputation for outstanding customer service and manufacturing high quality industrial equipment.

At Mi-T-M, we understand the importance of reliable and dependable equipment, and we will work closely with you to understand your unique requirements in order to implement a water treatment solution tailored to your specific needs.

Importance of Water Treatment Systems:
- Ensure quality of water
- Sustainable water management
- Capture and treat wastewater for reuse or proper disposal
- Water conservation
- Help meet certain regulatory standards
- Long-term cost savings









**Stacey Turtscher**
Water Treatment Assembler



**Ron Goedken**
Water Treatment Foreman

# PRODUCT SUPPORT AND RESOURCES

## YOUR DEDICATED SALES SUPPORT TEAM

*Your dedicated sales support team guides you from start to finish, will answer any questions and quote recommendations to best suit your needs.*



**Karl Loeffelholz**
Channel Sales Manager,
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(800) 367-6486, ext. 225
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Water Treatment Engineer
(800) 367-6486, ext. 256
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## HOW TO ORDER

*Units and accessories are ordered through authorized Mi-T-M dealers and distributors.*

- Be prepared to advice the Mi-T-M Sales Support Representative of your Mi-T-M account number, model numbers, parts and descriptions
- Indicate your purchase order number and full name on order
- Specify exact shipping instructions
- With fax and/or mail-in orders, include full name, Mi-T-M account number, zip code and phone number

**Phone**
(563) 556-7484
(800) 553-9053

**Fax**
(563) 556-1235

**Mail**
50 Mi-T-M Drive
P.O. Box 50
Peosta, IA 52068

**Website**
*www.mitm.com*

**Email**
*corp@mitm.com*

## INSTALLATION SUPPORT

*We offer manuals and drawings to help with the installation process.*
*Contact your dedicated sales support team for more information.*

## AUTHORIZED SERVICE CENTERS

*Keep your Mi-T-M equipment performing at it's best. You can count on our authorized service centers for Mi-T-M equipment maintenance and repair when you need it.*

*Visit **www.mitm.com/find-a-service-center** or scan QR code to find a service center near you!*

**Scan for service center**















# APPLICATIONS

## FIND THE BEST SOLUTIONS FOR YOUR INDUSTRY

# CONSTRUCTION

Water treatment is a critical component of various construction applications, contributing to resource conservation and tool and equipment maintenance.

## BENEFITS

- Equipment maintenance
- Removal of mud, dirt and clay from tools and equipment
- Wastewater treatment




## RECOMMENDED WATER TREATMENT SOLUTIONS

**PRETREATMENT SYSTEMS (WTA SERIES)**
Pretreatment systems effectively remove dirt, mud and other solids from wash water before recycling.

**BIOLOGICAL SYSTEMS (BIO SERIES)**
The BIO Series Systems allow for the treatment of wastewater collected from washing construction equipment. They use a looped system with biofilm generative media, microbes and aeration to eliminate contaminants in the water, making it ready for reuse.

**WATER CANNONS (WC & CHV SERIES)**
Water cannons provide high-volume water pressure, to blast away caked on mud, dirt and grime from heavy equipment and tracked vehicles.

**MECHANICAL (WLP & WCP SERIES)**
The heavy-duty mechanical water treatment systems are designed with advanced technology to remove contaminants, filter and recycle wastewater for reuse.



*Advanced Wash Water Recycle System*




*Water Cannon*

# FOOD AND BEVERAGE

Food and beverage processing and distribution industries are held to high standards for water quality, and having clean facilities and equipment is imperative to ensure safety and stay in compliance with industry regulations.



## BENEFITS

- Facility maintenance
- Equipment protection and maintenance
- Wastewater treatment
- Reduce environmental footprint
- Ensure regulatory compliance

## RECOMMENDED WATER TREATMENT SOLUTIONS

**BIOLOGICAL SYSTEMS (BIO SERIES)**
The BIO Series Systems treat and recycle wastewater collected during production processes, cleaning equipment and facility maintenance.

**REVERSE OSMOSIS SYSTEMS (FRO SERIES)**
The freshwater reverse osmosis systems remove contaminates and dissolved salts from wash water through a multi-stage filtering process, effectively purifying the water for use in operations and maintenance that require pure water.




*Reverse Osmosis System*

# GOLF COURSES

Golf courses use water treatment systems to conserve, treat and recycle water for washing mowers, tractors, golf carts and turf equipment. In addition, golf courses use water treatment systems in order to comply with environmental regulations.

## BENEFITS

- Equipment maintenance
- Wastewater treatment - removing oils, fertilizers, herbicides, insecticides and other contaminants
- Stay in compliance with wastewater discharge regulations



## RECOMMENDED WATER TREATMENT SOLUTIONS

**BIOLOGICAL SYSTEMS (BIO SERIES)**
The BIO Series Systems allow for the treatment and recycling of wastewater collected from a course wash bay so it can be reused for equipment maintenance or discharged into a sanitary sewer.

**WATERFALL FILTER AND GRASS CART OPTIONS (ACCESSORIES FOR THE BIO SERIES SYSTEM)**
Mi-T-M offers a waterfall filter and towable grass cart that are perfect options for a water treatment system on a golf course. A waterfall filter separates grass and debris from the water and drops them into a towable grass cart for easy disposal.



*Aluminum round sump pit and grating*




*Biological System with Waterfall Filter and Grass Cart*

# TRUCKING

Trucking companies often use water treatment equipment for fleet maintenance, especially for cleaning vehicles, heavy-duty trucks and trailers. A water treatment system captures dirt, debris, removes chemicals and contaminants and recycles wash water for reuse.



## BENEFITS

- Fleet and vehicle maintenance and cleaning
- Wastewater treatment
- Water conservation
- Reduce water expenses
- Ensure regulatory compliance

## RECOMMENDED WATER TREATMENT SOLUTIONS

**BIOLOGICAL SYSTEMS (BIO SERIES)**
The BIO Series Systems use fixed-film bacteria and coalescing media filters to treat and recycle wastewater used to clean trucking fleets.

**ABOVE-GROUND WATER/OIL/SOLIDS SEPARATORS (WOS SERIES)**
These systems are designed to remove free oils and solids from wash water so it can be discharged into a sanitary sewer.

**SPRAY ARCH SYSTEM (WSA SERIES)**
The WSA Series spray arch system allows trucking companies to customize drive-through and automated vehicle washing. It features soap, wash and rinse arches, an undercarriage spray bar and reverse osmosis system for spot-free rinsing.

**REVERSE OSMOSIS SYSTEMS (FRO SERIES)**
Freshwater reverse osmosis systems are ideal for removing contaminants from fleet cleaning. They can treat up to 2,000 gallons of water per day and use a multi pre-filter process.

**MECHANICAL (WLP & WCP SERIES)**
The WLP and WCP water treatment systems are constructed with advanced technology to handle wash water from heavy-duty fleet cleaning.




*WOS Series Water/Oil/Solids Separator*

# RENTAL

Water treatment equipment is primarily used by rental centers to efficiently clean rental tools and equipment, reduce water consumption and manage wastewater to meet regulatory standards.

## BENEFITS

- Fleet and vehicle maintenance and cleaning
- Equipment cleaning
- Wastewater treatment and recycling
- Ensure regulatory compliance



## RECOMMENDED WATER TREATMENT SOLUTIONS

**PRETREATMENT SYSTEMS (WTA SERIES)**
The WTA pretreatment systems are designed to efficiently remove mud and solids from wash water before it's treated and recycled for reuse.

**BIOLOGICAL SYSTEMS (BIO SERIES)**
The BIO Series Systems treat wastewater collected from rental center equipment washing and recycle it for reuse, reducing the need for a constant supply of fresh water.

**COLD WATER PRESSURE WASHER (CHV SERIES)**
This CHV Series cold water, high-volume pressure washer is ideal for removing dirt, build-up and heavy mud and solids from all types of rental equipment.

**RECYCLING SYSTEMS (WTR SERIES)**
The WTR Series are compact light-duty recycling systems used to filter wash water from equipment cleaning and rental facility maintenance.

**MECHANICAL (WLP & WCP SERIES)**
Heavy-duty mechanical water treatment systems use an advanced separator for oils, solids and water along with multiple customized filters to treat and recycle wastewater.

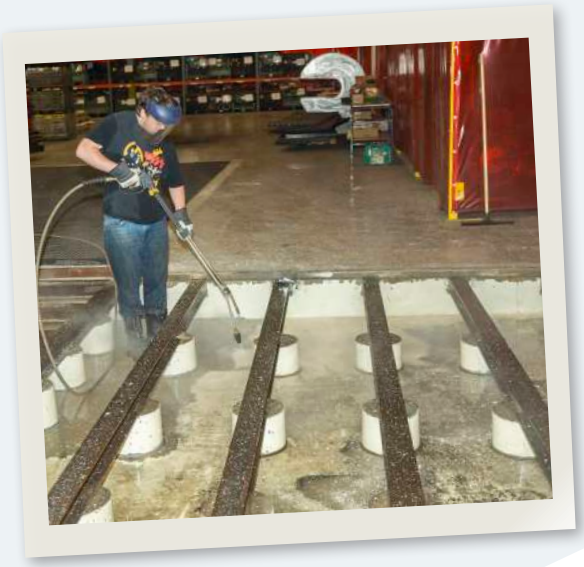
**DISCHARGE (WOS SERIES)**
The WOS water treatment systems remove free oils from wash water so it can be discharged into a sanitary sewer.




*CHV Series Cold Water Pressure Washer*

# MANUFACTURING

Manufacturing facilities use water treatment systems to meet quality standards of effectively treating and reusing wastewater for parts, equipment and facility maintenance and operations.



## BENEFITS

- Parts and equipment maintenance
- Facility maintenance
- Wastewater treatment

## RECOMMENDED WATER TREATMENT SOLUTIONS

**RECYCLING SYSTEMS (WTR SERIES)**
The WTR Series are compact light-duty recycling systems used to filter collected wastewater from parts, equipment and facility maintenance. Wash water is introduced into the systems where solids are separated and removed, then treated and stored for either reuse or proper disposal.

**MECHANICAL (WLP & WCP SERIES)**
Mechanical water treatment systems are built for heavy-duty wastewater recycling. They come standard with pH and ORP injection to eliminate and control bacteria.




*WTR Series Recycle System*



*Aluminum round sump pit and grating*

# WASH BAY

Wash bays can be found in a variety of industries where cleaning and maintenance of equipment, vehicles and machinery are essential. Utilizing a water treatment system in a wash bay reduces water usage, saves money and keeps operations in compliance.

## BENEFITS

- Vehicle, machinery and equipment maintenance
- Wastewater treatment
- Reduce water usage
- Ensure regulatory compliance




## RECOMMENDED WATER TREATMENT SOLUTIONS

**COLD WATER PRESSURE WASHER (CHV SERIES)**
Mi-T-M offers a variety of pressure washers for any wash bay need. The CHV Series is a high-volume pressure washer that blasts away dirt, mud and heavy solids from vehicles, machinery and equipment.

**UNDERCARRIAGE WASH SYSTEMS (WCU SERIES)**
The undercarriage wash systems are perfect for any wash bay. They remove mud and grime build-up under vehicles and can be programed to automatically turn on when vehicles are driven into the wash bay.




*WCU Series*















# QUESTIONS
## TO DETERMINE THE TYPE OF SYSTEM

# QUESTIONS TO DETERMINE THE TYPE OF SYSTEM

Some questions you should ask or consider when determining the best water treatment system for you or your customer:

## What industry are you in?

*Different industries require different water treatment solutions. Consider which system will best suit your needs and requirements.*

## What are the reasons you are considering a water treatment system?

*There are numerous reasons to invest in a water treatment system – to conserve water, compliance or regulations, cost efficiency, etc.*

## What will you be using a water treatment system for?

*Water treatment systems can be used for a variety of applications – washing, maintenance, water quality control, etc.*

## What is your solids level?

*Determine if your wash water will have dirt from trucks and forklifts (light), mud and grease from skid steers or loaders (medium) or clay and asphalt from tracked equipment (heavy).*

## Where do you plan on installing a water treatment system; new or existing building?

*Depending on where you plan to install a water treatment system, you will want to consider available space, water supply and power requirements.*

## How often do you plan on using a water treatment system? What is the required water flow rate and capacity?

*Water treatment systems have different capacities and capabilities, so you'll want to determine what you'll be using the system for and how often.*

## Will soaps and/or chemicals be needed?

*Soaps and chemicals usually need to be treated before recycling or disposal.*

## Does the facility have access to a sanitary sewer?

*Water treatment systems treat and recycle wastewater for reuse or proper disposal into a sanitary sewer.*

## Will pressure washers be needed for your water treatment system? If so, how many?

*Pressure washers add additional cleaning capabilities and can be connected to a water treatment system to reuse recycled water for cleaning.*



**There is a customer summary sheet available to help answer these questions, contact us for more information.**













# TYPES OF SYSTEMS

## WHAT THEY ARE, WHAT THEY DO AND HOW THEY WORK

# PIT CLEANER

*The Pit Cleaner is the right tool to aid in the clean-up of solids in hard-to-reach places. It is designed to draw and filter the solids that collect in wash water pits. Use in mud and sludge pits, sand pits and for heavy grass clean-up.*



## ACCESSORIES

- Sludge Box - Plastic box designed to hold sludge bags, includes 10-ft. x 2-in. PVC hose
- Pit Cleaner Assembly - Includes suction lance, suction head and flex hose, 87-in. suction lance capable of vacuuming solids up to 1-in. diameter, 20-ft. flexible hose
- Sludge Carrier - Movable cart holds sludge bags
- Biodegradable Sludge Bags - Capture the sludge while allowing the water to flow through, 5 qty.

**Use with pressure washers with 2.0-GPM up to 5.0-GPM water volume and 1000-PSI up to 4000-PSI maximum operating pressure.**



*Sump pump*



*Aluminum round sump pit and grating*



*Aeration stick assembly*

## ACCESSORIES

- Steel grating
- Brace kits
- Sump pumps
- Bulkhead fittings
- Aluminum round sump pit and grating

## OPTION

- Aeration stick assembly

BPS Series
WTA Series

# BIOLOGICAL PIT ENHANCEMENT SYSTEM

*The Biological Pit Enhancement System enables you to inject microbes and air into water where oil collects. This will improve the quality of the water stored in pits.*

**Power Requirements**
120V, 1Ø, 8.0A, 60Hz




## FEATURES

- 2 aeration pumps
- 2 peristaltic pumps
- 2 aeration stick assemblies
- 115V single phase setting
- Internal timers allow end user to control the amount and frequency of the liquid microbes and air doses

# PRETREATMENT SYSTEMS

*The WTA Series pretreatment systems can be added to any water treatment system, for effective removal of solids prior to recycling.*

**Capacity**
600-gallons

**Power Requirements**
Single or three phase

**Systems Available that Include:**
Tank stand
Sump pump
Trap and basket
Coalescing media frame
Aeration pump
Mazzei venturi injector
Peristaltic pump




## FEATURES

- 600-gallon cone-bottom tank
- Manual dump valve

## ACCESSORIES

- Floating media
- Mazzei venturi injector
- Connection plumbing
- Inlet and outlet plumbing for tanks
- Replacement media
- Leg extension kit

## OPTIONS

- Automatic dump valves
- pH control system
- Floating media
- High solids media
- Hour meter
- Coagulation system
- Heaters

BIO Series

# BIOLOGICAL RECYCLE/ CLARIFIER SYSTEMS

*A clarifier allows for greater settling and removal of accumulated solids in wastewater before treatment. This pretreatment makes it easier for water treatment systems to operate effectively.*

**Flow Rate**
0-15 GPM

**Clarifier Tank**
600-gallons

**Media**
1,300 sq. ft.

**Power Requirements**
230V, 1Ø, 20.0A or 230V, 3Ø, 15.0A




Pretreatment – Customizable for your specific application – Easy operation and maintenance

## FEATURES

- Cone-shaped tank
- Quality recycled wash water without common odor problems
- 1.0 HP sump pump
- Heavy-duty, corrosive-resistant and UV-resistant poly skid
- Peristaltic pump is self-priming
- Mazzei® venturi air injection system
- ETL listed NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Air fine-bubble injector
- Check valve
- Sludge box
- Biodegradable sludge bags
- Replacement media

## OPTIONS

- Pinch valve assemblies
- Ozone
- BIO sump pump conversion
- 165-gallon water tank upgrade
- Product tank overflow
- 460V, 3Ø
- High solids media
- Hour meter
- Coagulation system

BIO Series

# BIOLOGICAL RECYCLE/ DISCHARGE SYSTEMS

*The popular BIO Series system utilizes fixed-film bacteria in conjunction with coalescing media to treat wastewater. Oxygen is added to the bacteria in the waste stream by venturi injection system.*

**Flow Rate**
0-20 GPM up to 0-90 GPM

**Biological Media**
2,304 sq. ft. up to 11,520 sq. ft.

**Tank Capacity**
890-gallons up to 3,230-gallons

**Power Requirements**
230V, 1Ø, 15.0A / 230V, 1Ø, 25.0A / 230V, 3Ø, 10.0A / 230V, 3Ø, 15.0A / 230V, 3Ø, 20.0A




Low maintenance – Low operating costs – Simple equipment operation

## FEATURES

- Bioreaction tank
- Biofilm generative media
- Aeration system
- Pressurized tank
- Pressure manifold
- Submersible sump pump
- Marine aluminum construction with slope bottomed design
- ETL listed NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Waterfall filter
- Grass carts
- Peristaltic pump assemblies
- Aluminum round sump pit and grating
- Microbes

## OPTIONS

- Epoxy-lined tanks
- High solids media
- Ozone
- Automatic dump valves
- 250 or 550-gallon product tank expansion
- pH control systems
- BIO sump pump conversion
- Hour meter
- Heater

# RECOVERY AND RECYCLE SYSTEM

## PWR Series

*The Portable Water Recovery Series captures, filters and recycles wash water for reuse or proper disposal on and off jobsites.*

**Vacuum Motor**
3-stage, 1500W, 12.5A full load

**Filter Pump**
1/3 HP, 120V, 1Ø, 8.0A, 60Hz

**Tank Capacity**
55-gallons

**Water Berm**
6in. x 20ft.



Capture, filter and recycle – Reuse or disposal

### FEATURES

- 1/3 HP transfer pump
- Oil absorbing boom/stick
- Vacuum tank drain
- 3-stage vacuum motor
- Stainless-steel suction head
- Cam lock fittings
- 50-foot vacuum hose
- 55-gallon tank capacity
- 20-foot water berm

### ACCESSORIES

- Cartridge filters
- Stainless-steel suction head
- Water berm
- Oil absorbing boom
- Vacuum hose

### OPTIONS

- Wheel kit
- Dual filters
- Trailer-mount packages with hot water pressure washers

## WOS Series

# ABOVE-GROUND WATER/OIL/SOLIDS SEPARATORS

*Designed to remove free oil from wash water before discharging to a sanitary sewer, the water/oil/solids separators will reduce the amount of suspended solids while removing hydrocarbons.*

**Flow Rate**
0-15 GPM up to 0-30 GPM

**Coalescing Media**
672 sq. ft. up to 1,152 sq. ft.

**Tank Capacity**
170-gallons up to 340-gallons

**Pump**
1.0 HP

**Power Requirements**
120V, 1Ø, 15.0A /
208-230V, 3Ø, 5.0A/3.0A /
230V, 1Ø, 8.0A




Capable of handling oil and solids – Extremely small footprint – Easy to maintain

### FEATURES

- Corona discharge ozone system
- Oil skimmer/decanter
- Discharge port
- Oil coalescing media
- 1.0 HP surface-mount sump pump
- 3-stage stainless-steel tank with sloped bottom design for easier solids removal
- ETL listed NEMA-4 rated corrosion-proof control panel

### ACCESSORIES

- Replacement coalescing media

### OPTIONS

- Continuous recirculation
- 230V, 1Ø
- 460V, 3Ø

# CLARIFIER AND OIL/WATER SEPARATORS

## WCL Series

*A clarifier allows for greater settling and removal of accumulated solids in wastewater before treatment. This pretreatment makes it easier for water treatment systems to operate effectively.*

**Flow Rate**
0-30 GPM

**Clarifier Tank**
600-gallons

**Oil Coalescing Area**
73 sq. ft. up to 425 sq. ft.

**Power Requirements**
230V, 1Ø, 8.0A / 230V, 1Ø, 13.0A




Pretreatment – Removal of accumulated solids and oils

### FEATURES

- 600-gallon cone-shaped clarifier tank
- Corona discharge ozone injection
- Solids separation chamber with bag filter and decanting
- Oil skimmer and decanter for easy handling of oil
- 1.0 HP surface-mount sump pump
- ETL listed NEMA-4 rated corrosion-proof control panel

### ACCESSORIES

- Treated-water storage tank

WLP Series

# ADVANCED WASH WATER RECYCLE SYSTEMS

*These recycle systems are designed to remove free hydrocarbons and filter water to be sent back through a pressure washer. They feature pH and ORP injection and are designed with corrosion-resistant tanks.*

**Flow Rate**
0-20 GPM up to 0-40 GPM

**Media Filter (Custom Mix)**
550 lb. up to 2,750 lb.

**Carbon Filter (Degassed)**
124 lb. up to 186 lb.

**Cartridge Filter**
400 sq. ft.

**Power Requirements**
230V, 1Ø, 25.0A / 230V, 3Ø, 13.0A
230V, 1Ø, 30.0A / 230V, 3Ø, 17.0A

**Air Required (Auto-backwash)**
60 to 100-PSI




Removes free hydrocarbons – Filters water – Easy operation and maintenance

## FEATURES

- Poly skid is non-corrosive
- Easily accessible pumps
- Corona discharge ozone system
- Advanced oil/water/solids separator
- ORP/pH controller
- Customized multi-media filter
- Activated carbon filter
- 1.0 HP surface-mount sump pump
- ETL listed NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Check valve
- Replacement media
- Replacement carbon

## OPTIONS

- 460V, 3Ø
- Auto-backwash (Cartridge filter not available)

# CLARIFIER WASH WATER RECYCLE SYSTEMS

## WCP Series

*Designed to remove free hydrocarbons and filter water, these systems come standard with pH and ORP injection and are corrosion-resistant when utilizing polymer tanks and recycled plastic skids.*

**Flow Rate**
0-20 GPM up to 0-30 GPM

**Clarifier Tank**
600-gallons

**Media Filter**
350 lb. up to 3,100 lb.

**Cartridge Filter**
400 sq. ft.

**Carbon Filter**
124 lb. up to 186 lb.

**Oil Coalescing Area**
425 sq. ft.

**Ozone Generator**
12 grams/day

**Power Requirements**
230V, 1Ø, 30.0A / 230V, 1Ø, 35.0A
230V, 3Ø, 20.0A




Remove free hydrocarbons - Filters water with heavy solids - Easy operation

### FEATURES

- Cone-shaped tank
- Heavy-duty corrosive-resistant base
- Clarifier oil/water/solids separator
- Corona discharge ozone system
- Oil decanter
- Sludge box
- Multi-media, reusable polyester and activated carbon filters
- ORP/pH controller
- 1.0 HP surface-mount sump pump
- ETL listed NEMA-4 rated corrosion-proof control panel

### ACCESSORIES

- Replacement multi-media
- Replacement carbon
- Check valve

### OPTIONS

- Automatic dump valve (Standard on auto-backwash models)
- 460V, 3Ø
- Coagulation system
- Auto-backwash (Cartridge filter not available)

## WTR Series

# RECYCLE SYSTEMS

*The compact WTR Series systems are great for small wash bay set-ups. They are a cost-effective solution to filter wash water for reuse through a pressure washer or for proper disposal.*

**Flow Rate**
0-10 GPM

**Cartridge Filter**
(2) 30-micron, 100 sq. ft.

**Carbon Filter**
110 lb.

**Product Tank**
80-gallons

**Pressure Tank**
20-gallon

**Power Requirements**
208-230V, 1Ø, 15.0A /
208-230V, 3Ø, 8.0A




Filters water – Easy operation and maintenance

## FEATURES

- Poly skid is non-corrosive
- Easily accessible pumps
- Cartridge filter, 30-micron
- Activated carbon filter
- 1.0 HP surface-mount sump pump
- ETL listed NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Cartridge filter
- Activated carbon
- Ozone

## OPTIONS

- pH and ORP controllers (shown)
- 460V, 3Ø

# HIGH-VOLUME WATER CANNONS

WC Series
CHV Series

*The high-volume water cannon system acts like a water blaster, pre-washing heavy equipment and tracked vehicles. The tough, high gallon-per-minute centrifugal system blasts away mud and dirt with ease.*




**GPM @ PSI**
100 @ 60 / 150 @ 80

**Horsepower**
7.5 HP up to 15.0 HP

**Power Requirements**
208-230V, 3Ø, 20-22.0A or
460V, 3Ø, 10.0A /
208-230V, 3Ø, 38.0A or
460V, 3Ø, 19.0A

## FEATURES

- Cast iron centrifugal pump
- Centrifugal solids separator
- Pressure gauge indicator
- Remote box
- Time delay shut-down
- NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Hose
- Adjustable nozzle
- Metal foot-valves
- Hose reel
- Additional remote switch assembly

## OPTION

- 460V, 3Ø

*Receive more power with less pressure. This cold water, high-volume pressure washer is the perfect answer for applications that require cleaning of heavy solids, especially from large industrial equipment.*




**GPM @ PSI**
25 @ 500

**Horsepower/Motor**
10.0 HP, 230V, 1Ø, 41.5A /
10.0 HP, 230V, 3Ø, 25.6A

**Supply tank is required to run the CHV Series pressure washer.**

## FEATURES

- Belt drive diaphragm AR pumps with pulsation dampener
- Totally enclosed fan-cooled electric motor
- Pressure regulator with manual dump lever and gauge
- Makeup water shut-off solenoid and flow switch on outlet
- Stainless-steel long range nozzle
- 50-ft. x ¾-in. non-marking hose
- High-volume gun with adjustable spray pattern

## ACCESSORIES

- Replacement gun
- Hose reel

## OPTIONS

- 18-inch stand
- Remote start control box
- 460V, 3Ø
- 600-gallon tank

FRO Series

# FRESHWATER REVERSE OSMOSIS SYSTEMS

*The freshwater reverse osmosis system efficiently removes contaminants with a multi pre-filter process and spiral wound membranes. It is customizable and can treat up to 2000 gallons of water per day.*

**GPM @ PSI**
2.0 @ 200 up to 4.0 @ 200

**Permeate Flow**
0.7-0.8 GPM up to 1.4-1.5 GPM

**Reverse Osmosis Pump**
0.5 HP up to 0.75 HP

**Power Requirements**
120V, 1Ø, 15.0A

**Amp Draw**
8.0A up to 12.0A




Removes 98% of dissolved salts and contaminants

## FEATURES

- Powder coated steel frame
- PLC controls for automated operation
- Reverse osmosis pump
- Low feed pressure shutdown
- Multiple spiral wound membranes
- Sediment pre-filter
- ETL listed NEMA-4 rated corrosion-proof control panel

## ACCESSORIES

- Pleated filters
- Carbon filters
- Anti-scale filters
- Replacement membranes
- Filter housings
- Storage cartridge
- Membrane cleaning cartridges

# UNDERCARRIAGE WASH SYSTEMS

## WCU Series

*The ideal accessory for any wash bay, this system helps to remove mud and grime build-up under vehicles and small equipment. The durable steel frame ensures longevity even in harsh conditions.*

**GPM @ PSI**
35 @ 110

**Pump**
3.0 HP

**Power Requirements**
230V, 1Ø, 15.0A / 208-230V, 3Ø, 10.0A or 460V, 3Ø, 5.0A

**Nozzles**
Sixteen 25°, size 15 nozzles spaced 6-inches apart




Remove mud and grime under vehicles

### FEATURES

- Powder coated frame with control box and pump
- 8-foot stainless-steel spray bar with 16 nozzles
- Auto shut-off valve
- 250-gallon holding tank, supply hose and make-up valve
- PLC controls for automatic pump operation with photo-eye and remote box
- ETL listed NEMA-4 rated corrosion-proof control panel

### ACCESSORIES

- Nozzles

### OPTIONS

- 460V, 3Ø
- Detergent

## WSA Series

# SPRAY ARCH SYSTEM

*Choose from four versatile system designs – each built to deliver reliable, high-coverage performance. Ideal for bus garages, DOT facilities, commercial truck washes and fleet maintenance centers of every kind.*

**Soap Arch**
40-70 GPM @ 40 PSI

**Wash/Rinse Arch**
80-120 GPM @ 65 PSI

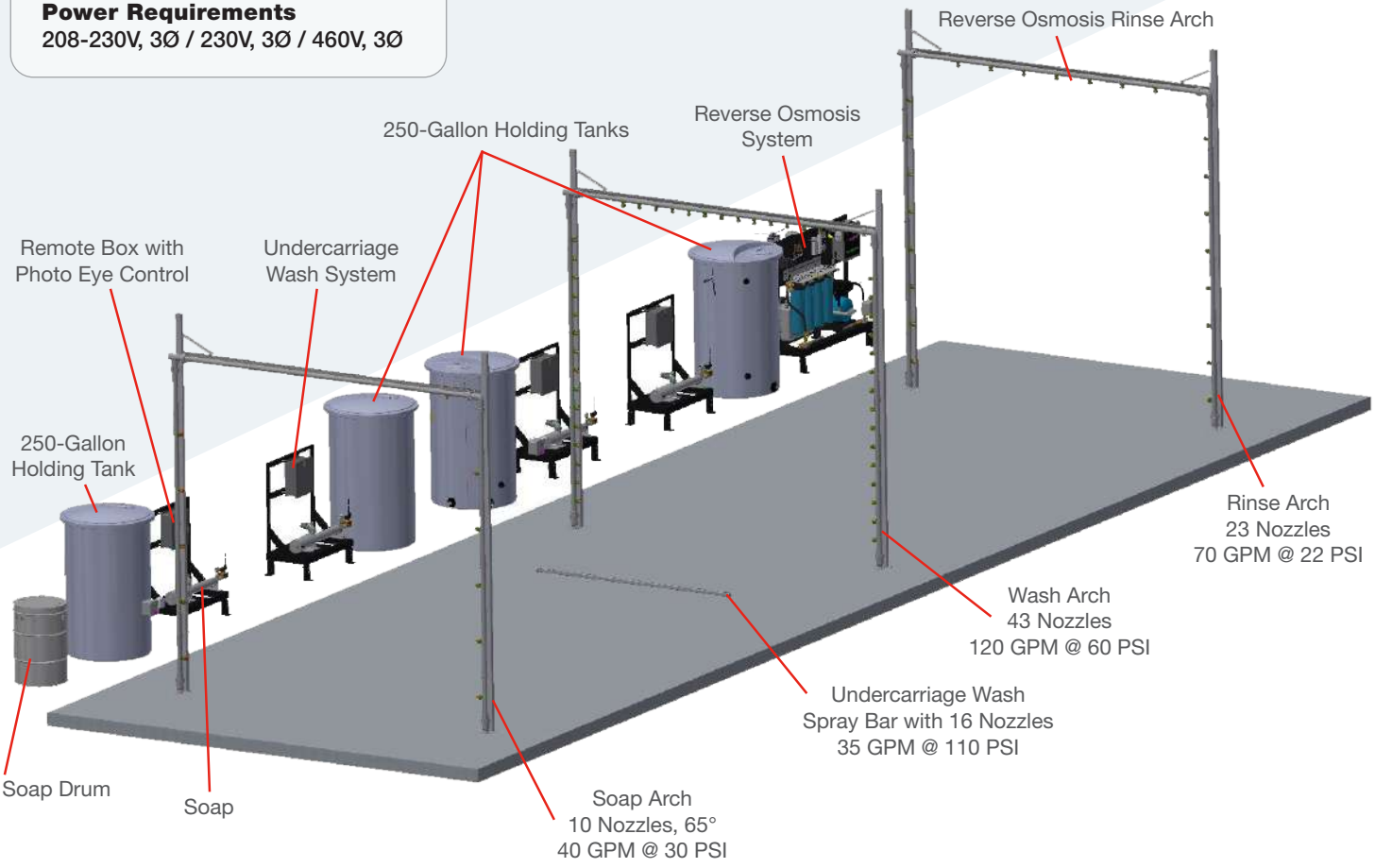
**High Pressure/Spinner Arch**
48 GPM @ 1000 PSI

**Reverse Osmosis Rinse Arch**
40-70 GPM @ 40 PSI

**Pump**
Custom

**Power Requirements**
208-230V, 3Ø / 230V, 3Ø / 460V, 3Ø

Example spray arch layout. Other configurations available.




## Customizable builds – Drive-through vehicle wash system

### FEATURES

- Photo-eye start controls, PLC and on/off remote
- Marine grade aluminum arch frame – adjustable width and height
- Fan spray or rotating spinner nozzles
- Pump skid has a powder coated steel frame

### OPTIONS

- Embedded spray bar and nozzles
- Holding tanks – 250 or 550-gallon or larger
- Single phase systems also available
- Other nozzle types and configurations, flow rates and pressures available
- Drive in/back out arch system (incorporates a soap and wash/rinse single arch and pump system)
- Reverse Osmosis System for spot-free rinsing

# CONSUMABLES AND LIQUID MICROBES

*Clean, treat and prevent contaminant build-up with these scientifically selected water treatment chemicals and consumables. Treatment programs are available for any Mi-T-M water treatment system.*

**Granular**
Hydrocarbons/VOCs mix
Golf course mix
Fats, oils and greases





**Solids – Cubes**
Hydrocarbon microbes



**Liquid Concentrates**
Liquid concentrate hydrocarbon bacteria
Surface prep liquid microbes




## HYDROCARBON BACTERIA

- For use with peristaltic metering pump on BIO Series
- When used with metering pump doses automatically and consistently
- Breaks down oils, grease, hydrocarbons and organics
- High CFU count




*Peristaltic pump assembly*




## SURFACE PREP LIQUID MICROBES

- Deep-cleans concrete and other hard surfaces by effectively removing stains
- Patented beneficial microorganisms help promote degradation of residual hydrocarbons for an extended amount of time after cleaning is complete
- Performance comparable to caustic and solvent-based cleaners

# SYSTEM COMPARISON

| APPLICATION | Biological Systems | Pre-Treatment Systems | Above-Ground Water/Oil/Solids Systems | Advanced Wash Water Recycle Systems | High-Volume Water Cannons | Freshwater Reverse Osmosis Systems | Under-carriage Wash Systems | Spray Arch Systems |
|---|---|---|---|---|---|---|---|---|
| **AUTOMOTIVE/VEHICLE WASH** | | | | | | | | |
| Auto Salvage | X | X | X | X | | | | |
| Automatic Wash | | | | | | X | X | X |
| **CONSTRUCTION EQUIPMENT** | | | | | | | | |
| Asphalt Paving Equipment | X | X | X | X | | | | |
| Dozers | X | X | X | X | X | | | |
| Excavators | X | X | X | X | | | | |
| **FARM EQUIPMENT** | | | | | | | | |
| Farm Implement Equipment | X | X | X | X | | | | |
| **GOLF AND TURF** | | | | | | | | |
| Golf Carts, Tractors | X | X | | | | | | |
| Mowers and Turf Equipment | X | X | | | | | | |
| **MACHINERY** | | | | | | | | |
| Aircraft Maintenance and Restoration | X | X | X | X | X | | | |
| Engine Rebuilders | X | X | X | X | | | | |
| Heavy Equipment Dealers | X | X | X | X | X | | | |
| Military Bases | X | X | X | X | X | | | |
| Shipyards | X | X | X | X | | | | |
| **MANUFACTURING** | | | | | | | | |
| Equipment Maintenance | X | X | X | X | | | | |
| Facility Maintenance | X | X | X | X | | | | |
| Food and Beverage Industries | | | | | | X | | |
| Forklift Washing Operations | X | X | X | X | | | | |
| **RENTAL EQUIPMENT** | | | | | | | | |
| Equipment Maintenance | X | X | X | X | | | | |
| Facility Maintenance | X | X | X | X | | | X | X |
| Rental Yards | X | X | X | X | X | | X | X |
| Wash Bay | X | X | X | X | X | | X | X |
| **TRUCK FLEET WASH** | | | | | | | | |
| DOT Operations | X | X | X | X | | X | X | X |
| Diesel Engine Repair Shops | X | X | X | X | | | | |
| Fleet Maintenance | X | X | X | X | | X | X | X |
| Solid Waste Haulers | X | X | X | X | X | X | X | X |
| Truck Dealers | X | X | X | X | | X | X | X |
| Vehicle Washing | X | X | X | X | X | X | X | X |
| Wash Bay | X | X | X | X | X | X | X | X |

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