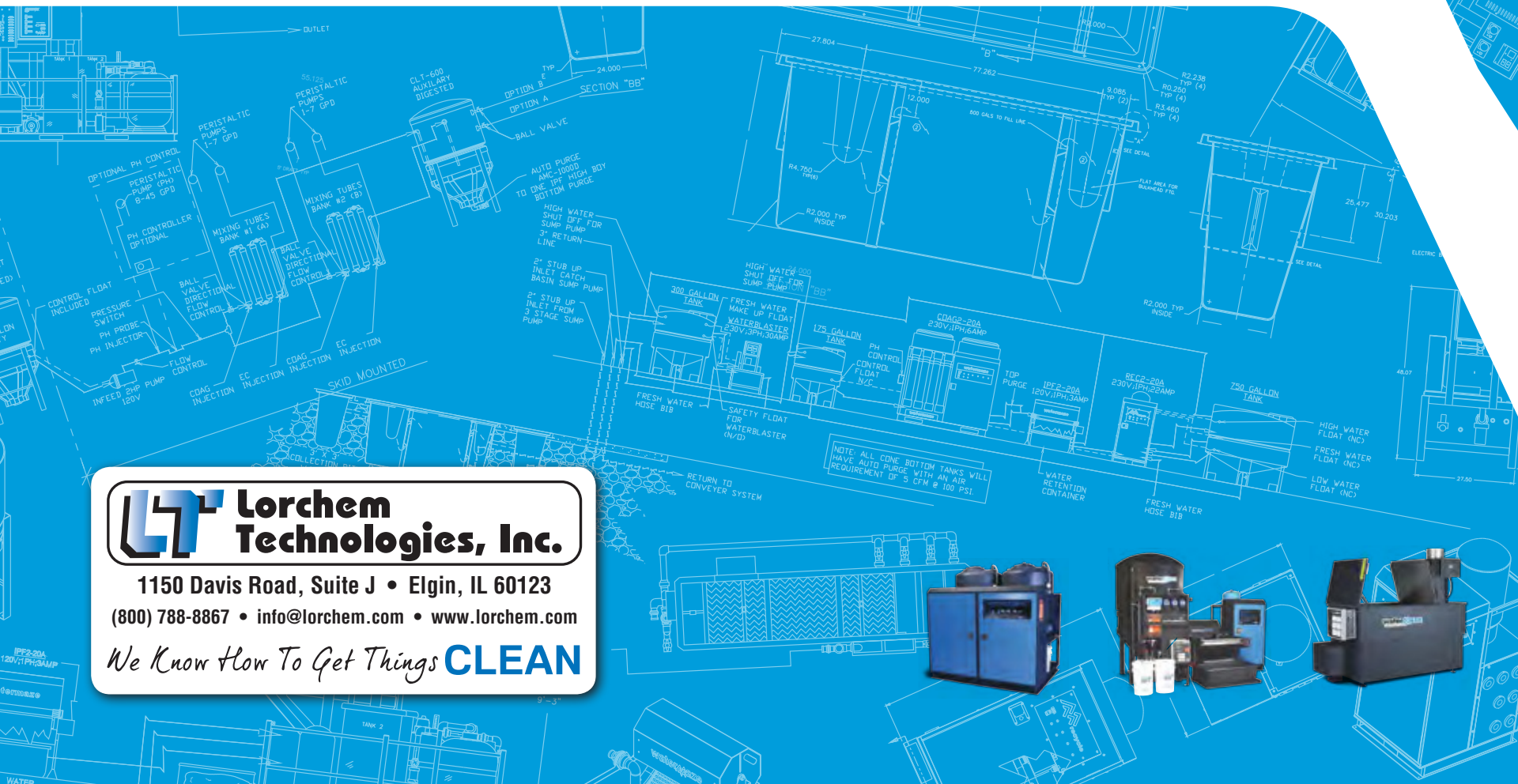
waterMaze
WATER TREATMENT SYSTEMS

2015 PRODUCT CATALOG & APPLICATION GUIDE



Lorchem Technologies, Inc.

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We Know How To Get Things **CLEAN**

WATER TREATMENT TECHNOLOGIES

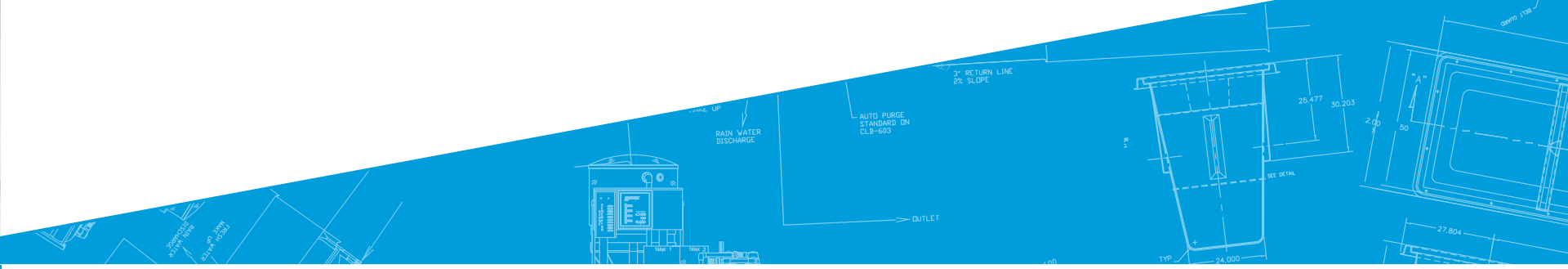
The following pages include brief descriptions of the water treatment technologies and products offered by Water Maze. The technology descriptions are written in simple terms so that the reader can discern the capabilities and limitations of each technology. We believe that a well-informed customer will ultimately result in a satisfied customer. Therefore, it is import that we offer our customers a basic understanding of each technology, as well as the products that we offer.

Incorrect selection of products and/or water treatment technologies can be a costly mistake. Equipment selection should involve a qualified application sales engineer that can assist and guide the buyer through the process.

The approach would normally involve the flowing minimal qualifying questions:

1. What is the source of the influent water and how is the water being generated?
2. How much water volume (hourly and daily) will need to be processed?
3. What are the constituents in the water that will need to be removed? (Oils, Solids, Metals, etc.)
4. What are the characteristics of the constituents in the water?
   (Free-floating oils, emulsified oils, settleable solids, suspended solids, etc.)
5. What is the intended use of the treated water? (Recycle, discharge to sewer, etc.)

Typically, multiple products and/or multiple water treatment technologies become part of the total solution. Only Water Maze offers such a complete range of products and technologies. Combined with our extensive network of local supporting dealers, Water Maze is your best partner for wash water and industrial water treatment systems.



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Manufacturing Center of Excellence

All Water Maze products are built and tested in Camas, Washington. Our 200,000 square foot manufacturing center has been ISO 9001 and 14001 certified for more than 10 years. Every product is tested before shipping to ensure high quality and reliability.

SOLUTIONS

We manufacture the building blocks that are integrated into complete water treatment solutions. We tailor our wide array of technologies to each customer's application and requirements.

Design Engineers & Technical Experts

Our team of design engineers and service technicians have decades of experience in industrial water processes. We have designed and installed thousands of installations across the country that are treating and recycling millions of gallons of water every day.

SYSTEM DESIGN

Every project is a partnership between the customer, Water Maze engineers, and your local dealer expert. We do not simply sell products — we provide integrated solutions designed to meet your needs.

WATER ANALYSIS

We provide a comprehensive evaluation of your wastewater and use that information to develop an optimized system designed to treat it to the standard of your application.

Local Expertise & Support

The Water Maze service network is available throughout North America. Trained technicians are available for start-up, service and ongoing operational support. From initial design consultations to after-sale support, we have expertise to assist every step along the way.

Water Maze treatment systems are designed to provide many years of reliable service with minimal repair and maintenance downtime. We are proud to have systems continuing to operate after twenty years. However, when you need us, our factory support hotline is staffed with experienced technicians. Local dealer service capabilities can have a technician, parts, and supplies on site quickly to keep your operation running.

INSTALLATION SUPPORT AND TRAINING

With experienced local dealer support, we can guide your team through the installation process, provide start-up services, and train your technicians to have your system operating efficiently starting on day one.

Every treatment system is optimized to produce the required effluent quality at the lowest operating cost.

We evaluate treatment requirements against best available technologies and select the optimum combination to meet required objectives. Systems can be designed to permit reuse/recycle, discharge to sewer* or evaporation of your waste stream – often resulting in virtually zero-discharge systems.

HOW WE DEVELOP YOUR SOLUTION

Goals & Treatment Needs

1

Water Sample Analysis

representative sample analysis, pollutants, concentrations, oils, solids, dissolved particles, organic compounds, metals

2

Solution Development & Proposal

develop a project solution including detailed product specifications and site-specific drawings

3

Installation & Commission

on-site support for a smooth install and operators are ready to manage the process from day one

On-Going Service Partnership

supplying consumables, training new employees, support and maintenance

*Subject to local regulations and permits

APPLICATION COMPARISON MATRIX

Wash Water Applications

Water Treatment Technologies Typically Applied to Application	pH Controller	Clarification/ Mechanical Separation	Filtration/ Particle Separation	Coagulation/ Flocculation/ Bentonite Clay	Oil Separation/ Skimming	Coagulation & Flocculation	Coagulation/ Flocculation (Electro or Chemical)	Bioremediation	Water Evaporation	Ozone, Chlorination, Bioremediation for Odor Control
Water Characteristics Typically Generated by Application	Variable pH Control	Heavy Solids Separation	Particles (large and small)	Suspended Solids	Free Oils	Emulsified Oils	Heavy Metals	Dissolved Organics	Dissolved Inorganics	Malodorous Conditions
Page Number	10	18	18	22	14	22	22	26	30	26
Asphalt Paving Equipment	☐	☐	☐	☐	☐	☐		☐	☐	☐
Auto Salvage	☐			☐	☐	☐	☐		☐	☐
Automotive | Automatic Wash	☐		☐	☐		☐			☐	☐
Automotive | Detailing	☐	☐	☐	☐	☐	☐	☐		☐	☐
Automotive | Manual Wash	☐		☐	☐				☐	☐	☐
Boat and Shipyard Hull Cleaning Fluids	☐		☐	☐			☐	☐	☐	☐
Diesel Engine Repair Ships	☐				☐	☐	☐		☐	☐
Farm Implement Equipment	☐	☐	☐	☐	☐	☐		☐	☐	☐
Golf and Turf Equipment	☐		☐	☐				☐	☐	☐
Machinery | Used	☐		☐		☐	☐	☐		☐	☐
Material Handling | Forklifts	☐		☐	☐	☐	☐			☐	☐
Material Handling | Wood Products	☐	☐	☐	☐				☐		☐
Mining Equipment	☐	☐	☐	☐					☐	☐
Oil Field Services | Tool Repair	☐	☐	☐	☐	☐	☐	☐		☐	☐
Oil Field Transportation Equipment	☐	☐	☐	☐	☐	☐	☐		☐	☐
Rental Equipment | Heavy Commercial	☐	☐	☐	☐	☐	☐		☐	☐	☐
Rental Equipment | Retail			☐	☐				☐	☐	☐
Road Construction Equipment | Excavators, Dozers, etc	☐	☐	☐	☐	☐	☐		☐	☐	☐
Solid Waste Transport | Landfill Equipment	☐		☐	☐			☐	☐	☐	☐
State Department of Transportation	☐	☐	☐	☐	☐	☐		☐	☐	☐
Trailer Repair	☐		☐	☐	☐	☐	☐		☐	☐
Transportation | Aircraft	☐			☐			☐		☐	
Transportation | Locomotive	☐		☐	☐	☐	☐	☐		☐	☐
Transportation | Motor Freight	☐		☐	☐	☐	☐			☐	☐
Transportation | Truck & Bus	☐		☐	☐					☐	☐
Truck Dealers | Heavy Duty	☐		☐	☐	☐	☐			☐	
Truck Repair | Heavy Duty	☐		☐	☐	☐	☐	☐		☐	☐
Utilities Equipment Repair	☐		☐	☐	☐	☐			☐	☐

Industrial Applications

Water Treatment Technologies Typically Applied to Application / Water Characteristics Typically Generated by Application	pH Controller	Clarification/ Mechanical Separation	Filtration/ Particle Separation	Coagulation/ Flocculation/ Bentonite Clay	Oil Separation/ Skimming	Coagulation & Flocculation	Coagulation/ Flocculation (Electro or Chemical)	Bioremediation	Water Evaporation	Ozone, Chlorination, Bioremediation for Odor Control
	Variable pH Control	Heavy Solids Separation	Particles (large and small)	Suspended Solids	Free Oils	Emulsified Oils	Heavy Metals	Dissolved Organics	Dissolved Inorganics	Malodorous Conditions
Page Number	10	18	18	22	14	22	22	26	30	26
Aircraft Refurbishment Fluids							☐		☐	
Cooling Tower Blow-down Water									☐	
Die Casting Release Agent Fluids						☐	☐		☐	☐
Electroplating and Polishing Fluids							☐		☐	
Floor Scrubbing Water	☐		☐	☐		☐	☐		☐	☐
Ground Water Remediation				☐			☐	☐		☐
Heat Treating Coolant Fluids							☐		☐	
Machine Shop Metal Cutting Coolants			☐			☐	☐		☐	☐
Manufacturing Fluids | Drawing Compounds						☐	☐		☐	☐
Metal Cutting Water Table Fluids | Plasma Cutting			☐	☐			☐		☐	
Metal Finishing | Surface prep | Phosphate Cleaning Fluids	☐		☐	☐		☐	☐		☐	☐
Metal Plating Fluids	☐								☐	
Metal Stamping Release Agents							☐		☐	☐
Natural Gas Transmission Compressor Condensate					☐				☐	☐
Parts Washing Fluids | Aqueous Based	☐		☐		☐	☐	☐		☐	
Vibratory Bowl | Cleaning and Polishing Fluids						☐	☐		☐	☐
Water Jetting and Cutting Fluids			☐	☐			☐		☐	

Note: Water contaminates and water characteristics may vary for each application
Please contact the Water Maze factory to discuss your specific water treatment application

PRODUCT COMPARISON MATRIX

Influent Water Characteristics Capabilities		Variable pH Control	Heavy Solids Separation	Particles (above 5 micron)	Suspended Solids	Free Oils	Emulsified Oils	Heavy Metals	Organics & Emulsified Oils	Water Volume Reducing	Malodorous Conditions
Primary Water Treatment Technology	Page Number	pH Controller	Clarification/ Mechanical Separation	Filtration/ Particle Separation	Coagulation/ Flocculation	Oil Separation/ Skimming	Coagulation & Flocculation	Coagulation/ Flocculation (Electro or Chemical)	Bioremediation	Water Evaporation	Ozone, Chlorination, Bioremediation for Odor Control
PRE-TREATMENT SYSTEMS & PRODUCTS											
In-ground Pit Systems											
2' x 2' x 3.5' or 3' x 3' x 4.5' Fiberglass Catch Basin	12		☐								
2' x 2' x 3.5' or 3' x 3' x 4.5' Fiberglass Sump Basin	12		☐								
3' x 9' x 4.5' In-ground Separator (oils & solids)	12		☐								
Dry-type Trench Drain	12		☐								
Drive-in Scoop-out Pit System	12		☐								
Above-ground Clarifier Tanks											
CLT-300 Cone-bottom tank (open-top, 55° slope)	13		☐								
CLT-600 Cone-bottom tank (open-top, 55° slope)	13		☐								
OIL/WATER SEPARATORS (OWS)											
Above-ground Clarifier Tanks with OWS											
CL-30A with 90 sq ft of coalescing	17		☐			☐					
CL-600D 490 sq ft coalescing, ozone, etc.	17	☐	☐			☐					☐
Above-ground OWS											
Alpha-1500D with 500 sq ft of coalescing, ozone	16	☐				☐					☐
Alpha-3100D with 1,000 sq ft of coalescing, ozone	16	☐				☐					☐
MECHANICAL FILTRATION											
Clarification/OWS/Filtration/Recycle											
CL-304A (with chlorine tablets)	20		☐	☐		☐					☐
CLP-5025A, B, or C	21	☐	☐	☐		☐					☐
CLPB-5024A, B, or C (with bioremediation)	29	☐	☐	☐					☐		☐
CLP-7034A, B, or C	21	☐	☐	☐		☐					☐
CLPB-7034A, B, or C (with bioremediation)	29	☐	☐	☐					☐		☐
ZeoClear Filtration with REC2-20A *Special*	21			☐							☐
Mechanical Filtration (only)											
IPF2-20D Indexing Polishing Filter	20		☐	☐							
Media Filtration	20		☐	☐							

Influent Water Characteristics Capabilities		Variable pH Control	Heavy Solids Separation	Particles (above 5 micron)	Suspended Solids	Free Oils	Emulsified Oils	Heavy Metals	Organics & Emulsified Oils	Water Volume Reducing	Malodorous Conditions
Primary Water Treatment Technology	Page Number	pH Controller	Clarification/ Mechanical Separation	Filtration/ Particle Separation	Coagulation/ Flocculation	Oil Separation/ Skimming	Coagulation & Flocculation	Coagulation/ Flocculation (Electro or Chemical)	Bioremediation	Water Evaporation	Ozone, Chlorination, Bioremediation for Odor Control
COAGULATION/FLOCCULATION											
Compact CoAg (chemical coagulation/flocculation)	25	☐	☐		☐		☐	☐			
CoAg2-20A (chemical coagulation/flocculation)	24	☐	☐		☐		☐	☐			
EC2-20A (electro-coagulation/chem flocculation)	24	☐	☐		☐		☐	☐			
BIOREMEDIATION											
PM-1000D (microbial treatment of pits and tanks)	28								☐		☐
CLB-600A | Primary Bio-digester (discharge)	29	☐	☐						☐		☐
CLB-30D | Auxiliary Bio-digester	29		☐						☐		☐
CL-304A (with bioremediation)	20			☐					☐		☐
CLPB-5024 (with bioremediation)	29	☐		☐					☐		☐
CLPB-7034 (with bioremediation)	29	☐		☐					☐		☐
BioPucks	28								☐		☐
WATER EVAPORATION (WATER REDUCTION)											
HBE-10B or C	32									☐	
HBG-15D | HBG-30D	32									☐	
WB-50A | WB-120A	33									☐	
OTHER COMPONENTS & PRODUCTS											
Water Blasting (demucking)											
Water Blaster 25 GPM, 500 PSI	36		☐								
Water Cannon 100 to 150 GPM, 80 to 100 PSI	36		☐	☐							
pH Control											
pH Permissive System	12	☐									
Ozone											
Stand-alone Ozone Generators with Circulation	37										☐
Automation											
REC2-20A (recycle module with ozone)	37										☐
AMC-1000D Auto-purge Control with Air-purge Valve	—		☐								
Pit Cleaner (for sludge removal)	36		☐								

PRE-TREATMENT

PRE-TREATMENT IS A VITAL PART OF ALL WATER TREATMENT SYSTEMS

All water treatment systems should include “adequate” pre-treatment. The definition of “adequate” may vary depending on the site specific application conditions and the physical and chemical properties of the influent water.

The primary objective of pre-treatment is to prepare the water for additional downstream treatment. For some applications, simply adjusting the pH of the water will effectively change the physical characteristics of the water and perhaps will provide easier downstream treatment. A well designed pit system that removes settleable heavy solids will reduce the burden the downstream equipment from being overwhelmed. If changing or adding the pit system is not feasible, perhaps adding an above-ground cone-bottomed clarifier tank is an option. For some applications, where there is an abundance of free-floating oils in the water, pre-treatment to remove excessive amounts of free-floating oils prior to addressing the emulsified oils may be required.

The following pages contain some of the pre-treatment technologies and products offered by Water Maze.

TECHNOLOGY pH CONTROL

Maintaining proper pH in the water is crucial to a water treatment system's effectiveness. A balanced pH promotes: solids to settle out quicker; emulsified oils to become more buoyant; and some metals to precipitate. Extreme pH levels will negatively impact the performance of a water treatment system. Automatic adjustment, rather than manually adjusting the pH of the water is highly recommended. Water Maze offers a variety of automatic pH control systems. Some are incorporated into the base product, some are factory installed options, others are stand alone systems (as shown below).

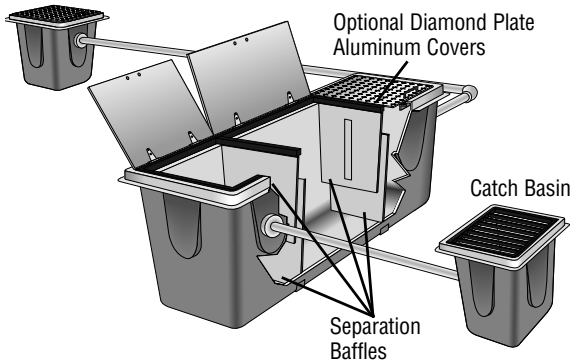
Holding Tank | Auto Fill PH-3020

PRODUCT pH Permissive System

The PH-3020 system incorporates: a digital (dual) pH controller that monitors and adjusts both base and acid pH ranges; a circulation pump; and chemical peristaltic pumps. Once the pH set points (high or low) is satisfied, the permissive interlock system of the controller will provide an output signal for the purpose of downstream release and/or post processing of the water. (For additional details, refer to the pH Permissive product sheet)

TECHNOLOGY FIBERGLASS PIT SYSTEMS

Reinforced, pre-fabricated fiberglass pits are significantly easier and less expensive to ship and install than shipping or constructing on site pits made of concrete. The fiberglass is chemically resistant and the inner surfaces are impervious, which inhibits the growth of bacteria. When they are properly installed (e.g., immersed in concrete), they effectively can provide double containment in case of ground movement.



PRODUCT Fiberglass Catch Basin | Collection Pits | Sump Pits

Water Maze offers in-ground fiberglass pits, which are easy to install at the job site. As compared to poured-in-place concrete pits that may eventually crack and allow water to leach into the ground, our fiberglass pits immersed into concrete can provide double containment. We offer three sizes of pits. The In-ground Separator (IGS) is uniquely designed with two sets of standing weirs that force solids to the bottom of the pit.

TECHNOLOGY ABOVE-GROUND CONE-BOTTOM TANKS

Above-ground cone-bottom tanks can enhance existing pit systems that may be too small, or that do not provide adequate pre-treatment. They can also be an economical alternative to expensive pit system reconstruction costs. Cone-bottom tanks can also provide lower clean out maintenance, as compared to some in-ground pit systems.

CLT-600

CLT-300

150 gal Tank with Stand

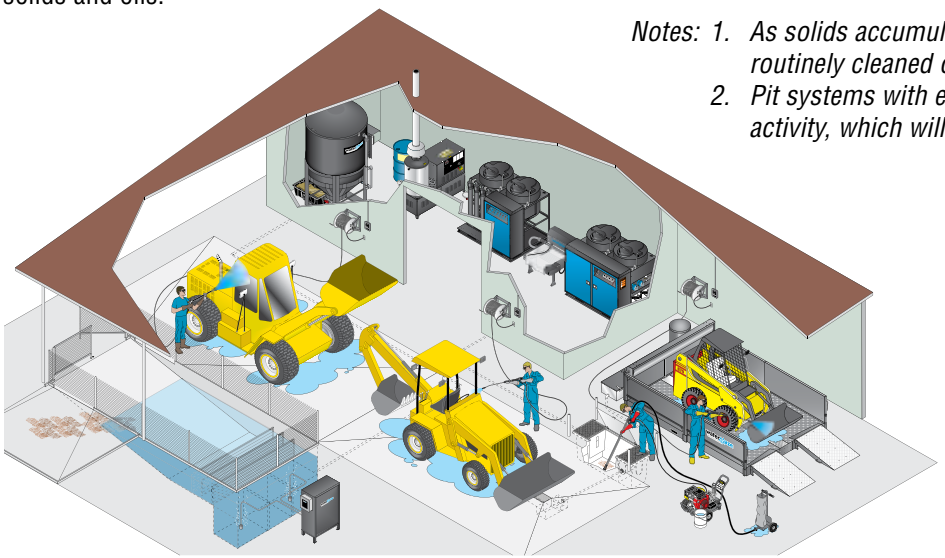
310 gal Tank with Stand

PRODUCT Above-ground Cone-bottom Tanks

Water Maze CLT-600 and CLT-300 models can be applied as pre-treatment, post treatment, or as a stand alone treatment system. These models utilize cross-linked polyethylene cone-bottom tanks with steep slopes (up to 55 degrees) for maximum solids separation. Each tank has a full open top with removable lid and includes heavy duty metal stand with cradle. These base models are also incorporated into other clarifier models within this products catalog with features and benefits to match your application requirements.

TECHNOLOGY IN-GROUND WASH PADS & ABOVE-GROUND WASH RACKS

The first purpose of a wash pad or wash rack is to contain wash water and the constituents in the water. The length and width dimensions of the largest item being cleaned will be a determining factor for the overall size of the wash pad. The second purpose is to retain solids that are heavy enough to settle. The volume of the settled solids over a certain time period and the end-user's commitment to clean out the accumulated solids is a critical consideration. When properly designed, a pit system can cause suspended solids to settle. The third purpose is to provide adequate dwell/quiet time for overall separation of solids and oils.

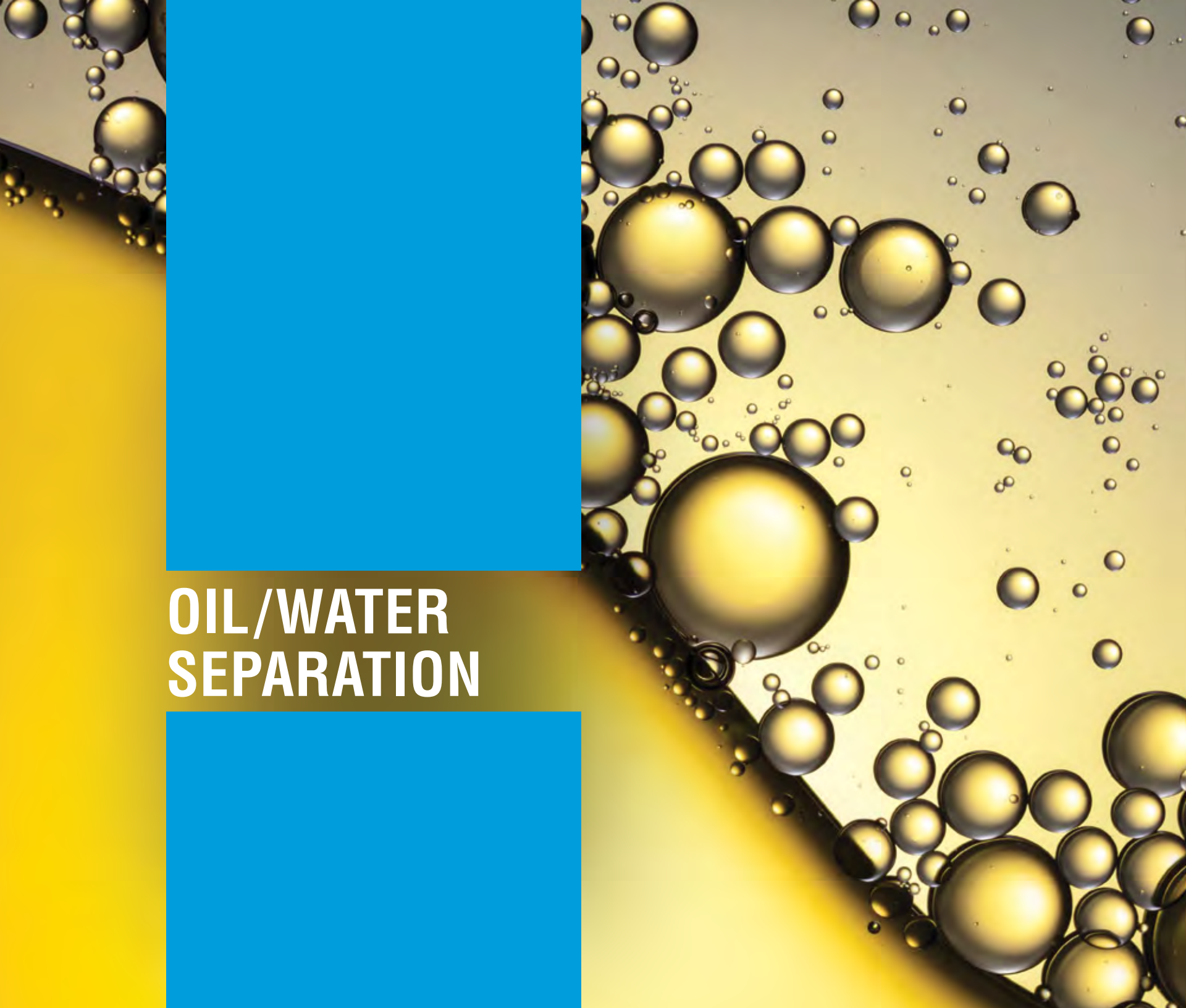


Notes: 1. As solids accumulate in the pit system, water will be displaced. If the solids are not routinely cleaned out, the dwell time will be reduced.

2. Pit systems with excessively large water volumes can promote anaerobic microbial activity, which will create a malodorous (smelly) working environment.

PRODUCT Wash Pads Designs & Wash Racks

We offer above-ground fabricated wash racks. We also offer in-ground wash pad design services. We have a library of concept drawings that cover various water treatment applications and will also provide site specific concept drawings with the purchase of a Water Maze water treatment system.

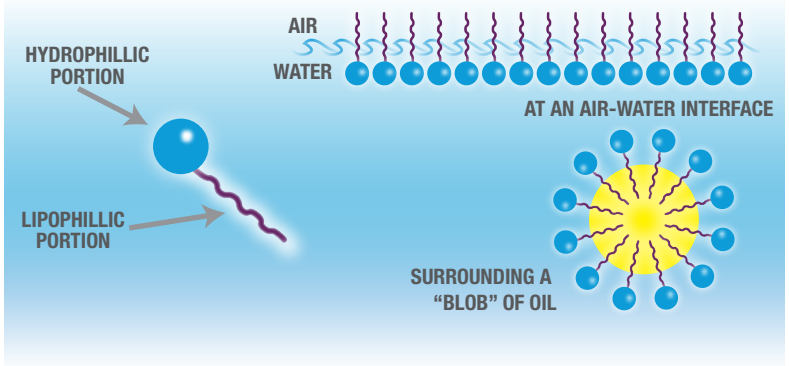


OIL/WATER SEPARATION

FREE-FLOATING OILS/ EMUSLIFIED OILS/SOLUBLE OILS

Oil/water separators are generally capable of separating free-floating oils, rather than chemically emulsified oils, or soluble oils from water. Many unaware buyers will request an oil/water separator, without knowing the physical characteristics of the oils as they exist in the water. This can result in a costly mistake.

THE BEHAVIOR OF SURFACTANT MOLECULES



Free Floating Oil

Are the oils free-floating?

Traditional oil/water separators are applied to applications where the oils are buoyant and floating on the surface. In some cases, pumping systems will cause the oils to temporarily mix into the water. The skimmer should be positioned where the oils are buoyant and free.

Chemically Emulsified Oil

Are the oils chemically emulsified and dispersed within the body of water?

If so, traditional oil/water separators are not normally applied. Rather, a "de-emulsifying" water treatment technology should be considered for your application.

Please refer to page 22 for further details on Coagulation/ Flocculation technology.

Oil Soluble in Water

Are the oils soluble in water?

If so, traditional oil/water separators are not normally applied. Rather, reducing the water volume prior to off-site disposal (using evaporation technology) should be considered for your application.

Please refer to page 31 for more details on Evaporation technology.

Note: the correct selection process for an oil/water separator should include a through examination of the characteristics of the oil/water mixture as they exist in the influent water. Bench-scale testing should be performed on a representative influent water sample to determine which of the above applies.

TECHNOLOGY IN-GROUND OIL/WATER SEPARATORS

In-ground oil/water separators can be an effective method of trapping free floating oils. However, in-ground collection of oils will also require a method to remove the trapped oils. Oil extraction can be accomplished using a vacuum system or an above grade skimmer system (as shown below).

Note: In-ground oil/water separators with excessively large water volumes can promote anaerobic microbial activity, which will create a malodorous (smelly) working environment.

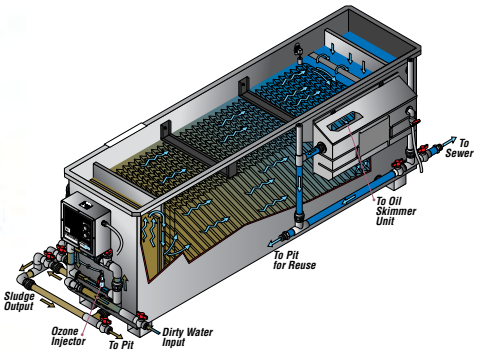
PRODUCT In-ground Oil/Water Separator

The Water Maze In-ground Separator (IGS) unit not only provides excellent solids separation, but when combined with our uniquely designed "Maze" of oil coalescing grids, it also enhances the separation of oils from water.

TECHNOLOGY ABOVE-GROUND CLARIFIER/OIL/WATER SEPARATORS

CONTINUED

ALPHA-3100D



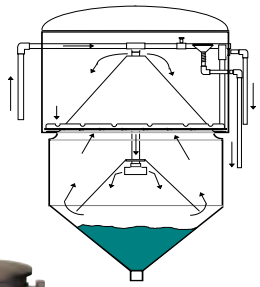
PRODUCT Above-ground Clarifier/Oil/Water Separators

The ALPHA-1500D and ALPHA-3100D models are highly effective above-ground oil/water separators, designed to discharge wash water at rates of up to 30 GMP (6.8 cubic meters/hour).
Both models incorporate: a low-profile stainless steel tank; stainless steel baffles positioned for optimizing the water flow; proprietary coalescing "Maze" grids that maximize the oil coalescing process; ultra-violet ozone generator for odor control; automatic oil skimming and decanting; NEMA control center for automatic operation.

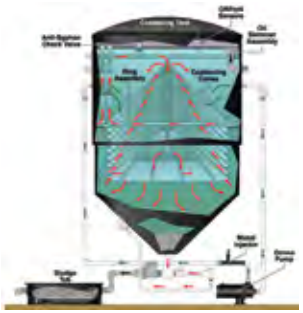
Options:
- *Auto-water discharge system, that automatically switches between recirculation and discharge.*
- *Aluminum cover*
- *pH Control system*

TECHNOLOGY ABOVE-GROUND CLARIFIER/OIL/WATER SEPARATORS

There are various types and designs of clarifier / oil / water separators in the market. In general, most above-ground systems are easier to manage and maintain than below ground systems. Each product may incorporate various features and benefits



CL-30A



CL-600D

CLT-600 *Special*

Inside of CLT-600 *Special* with Belt-Mop Skimmer

PRODUCT Clarifier/Oil/Water Separators

Water Maze offers a wide range of above-ground clarifiers that incorporate skimming of free-floating oils at flow rates at up to 30 GPM (6.8 cubic meters/hour). As with the CLT-300 and CLT-600 cone-bottom tanks shown on page 13, our clarifier models CL-30A and CL-600D utilize cross-linked polyethylene cone-bottom tanks with a steep slope (up to 55 degrees) for maximum solids separation. Each model includes a full open top with removable lid and a heavy duty metal stand with cradle. The CL-30A and CL-600D models also incorporate a separator top cone that effectively divides the one piece tank into top and bottom chambers. As influent water is pumped into the clarifier, it flows downward into the belly of the lower chamber where the flow of water (a mixture of solids, oils, and water) must reverse and then travel upward through coalescing cones (two cones on the CL-30 and ten cones on the CL-600D). The upward reversal of the flow causes the heavier solids to settle to the bottom of the cone. As the oil and water mixture flows upward, it passes by inverted coalescing cones (which attracts small oil droplets) and into the top chamber of the clarifier tank. Free-floating oils are then skimmed (see skimmer options) and are then drained to an oil-decanter container positioned on the ground next to the clarifier. The treated water, (with free-oils and heavy solids removed) is forced downward (using hydraulic head pressure) into a uniquely designed piping system where it is discharged from the clarifier.

PRODUCT *Special* | CLT-300 | CLT-600

Water Maze offers customized clarifiers that incorporate many options tailored to your unique situation. Not limited to but may include, belt-mop skimmer, auto-purge systems, auto-circulation systems, pH (only) controller, ORP/pH controller, dual pH Controller, and Bioremediation.

MECHANICAL FILTRATION

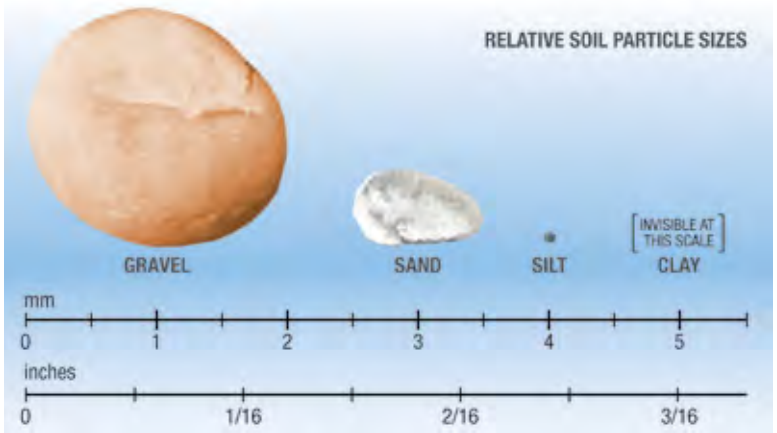
MECHANICAL FILTRATION REMOVES PARTICULATE MATTER FROM WATER

Filtration refers to the removal of solids from water. Solids in water are normally classified and measured as either suspended (Total Suspended Solids – TSS), or as dissolved (Total Dissolved Solids – TDS). Generally, the definition of a dissolved solid is a particle that is less than 2 micron.

Although some filtration technologies will remove dissolved solids from water, like reverse osmosis, Water Maze does not supply these types of filtration systems at this time. Rather, Water Maze offers products with filtration capabilities that range from 5 to 20 micron.

Factors that should be considered when selecting a filtration system are: 1) the total spectrum (range) of particle sizes; 2) the total amount of particles contained in the water (e.g., percentage of total solids); 3) the process flow rate requirements; 4) the amount of maintenance required by the filtration system.

When selecting a mechanical filtration system, it is important to confirm the following: What are the water quality requirements that pertain to the intended use of the water? Does the selected filter or system remove enough of the particles to achieve the water quality requirements?



TECHNOLOGY FILTERS INTEGRATED INTO A SYSTEM

Water Maze offers a wide range of mechanical filtration components and systems. Most are complemented with other types of technologies.

Media Filter

Filter Tank with Element

Cartridge Element

ZeoClear Tank

PRODUCT Tanks | Filters | Elements
Media Cartridge Filters, Multi-media filters, Media paper filters; Roto-molded for strength; corrosion and UV resistant; Self cleaning laterals

IPF2-20D

CL-304A

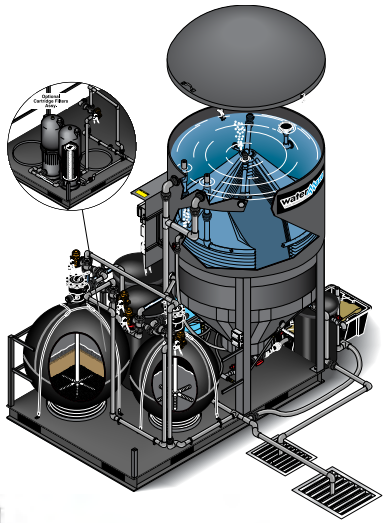
PRODUCT IPF2-20D Indexing Polishing Filter
The IPF solids dewatering unit utilizes inexpensive fabric media to filter out solid particles. Fabric paper, which is supplied in 5, 20, and 50 micron sizes, is automatically indexed onto a recessed conveyor belt made of high tensile, non-metallic material. As water and solid particles drain through the fabric paper, solids are retained by the fabric paper. As the fabric paper blinds over, the water level will rise, a float will actuate a drive motor and gear system, the conveyer belt will index forward allowing the spent paper to fall into a collection container and new paper to index onto the conveyor belt. The IPF can be applied for pre-treatment, post treatment, or as a stand alone treatment system.

PRODUCT CL-304: Economical Recycle System
For very low-volume applications, the CL-304 offers a compact and affordable recycling system engineered to fit on a single platform.

TECHNOLOGY FILTERS INTEGRATED INTO A SYSTEM

CONTINUED

CLP-7034



DELTA-1500A *Special*

ZeoClear Skid with REC2-20A *Special*

Filter Pac III

PRODUCT CLP-5025A | CLP-7034A

The CLP-7034 and 5024 are automated wash water recycling systems. Totally automated, the systems use a digital sequencer to monitor and control the filtering, recirculating, filter backwashing and sludge dumping functions. Other CLP features include: extra quantities of media including gravel, sand, anthracite, and garnet; up to 320 lbs. of auto “backwashable,” degassed, virgin activated carbon; 185-490 sq. ft. of cone-shaped, coalescing plates for optimum separation of oil and solids from wash water; industrial-grade ozone generator; convenient, mess-free method of disposing of sludge from the system

PRODUCT *Special* Delta-1500A

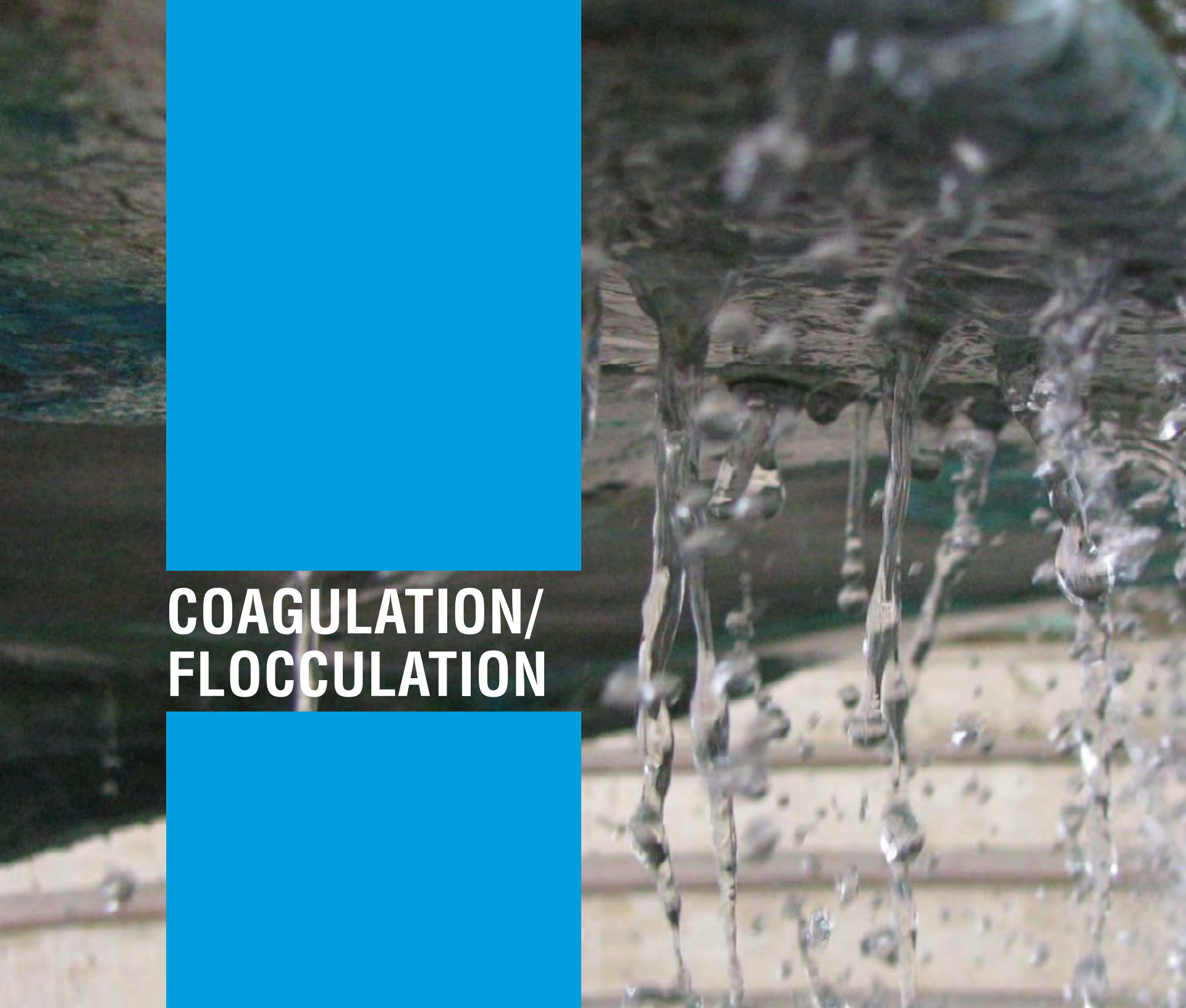
The Delta wash-water recycling systems are ideal when a wash facility is already equipped with a collection pit or pre-treatment system. The Delta is self-contained and has a low profile so it can be quickly installed inside a building or next to a wash pad. The Delta features Water Maze's proprietary “maze” design that uses oleophilic—oil-loving—coalescing plates, which are meshed together and inclined at just the right angle to produce highly effective oil-water separation.

PRODUCT *Special* Skid-mounted Zeo-Clear Filtration REC2-20A

This product is a water management control center that receives processed water from another source. The unit includes: a pump to transfer pretreated water into a clean-water holding tank (tank supplied by others); a ¾ HP pump with mazzei injector to circulate water in the clean-water holding tank; a transfer pump with pressure tank and manifold piping system to transfer the clean water back to the point of use; an electrical control center; fresh water makeup and excess water discharge system with float controls.

PRODUCT Filter Pac III

The Filter Pac III module can be applied for polishing waste streams in treatment and discharge, as well as recycle applications. The Pac III features carbon, cartridges and media filters for recycle quality wash water.



COAGULATION/ FLOCCULATION

CHEMICAL TREATMENT SYSTEMS CAN REMOVE SUSPENDED SOLIDS, EMULSIFIED OILS, AND HEAVY METALS

Coagulation/flocculation water treatment technology is typically applied to remove suspended particles and/or emulsified oils from water.

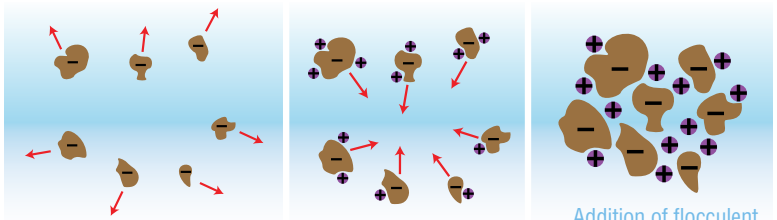
Particles are suspended due to natural ionic charges (e.g., common charges) that are present in the water. In the case of emulsified oils, the use of cleaning agents (i.e., degreasing agents, detergents, surfactants, etc.) create similar ionic charges around oil droplets. In either case, these common charges (negative to negative, or positive to positive) create repelling forces in water that suspends the matter.

COAGULATION

The purpose of coagulation is to neutralize the repelling charges and to allow the matter to gather (agglomerate). For most wash water and industrial wastewater applications, coagulation can be accomplished by mixing a chemical coagulant (a cationic positive charged chemical) into the water, or by applying Electro-coagulation (an electrolytic process using an electrolytic sacrificial cell and DC current) to the water.

FLOCCULATION

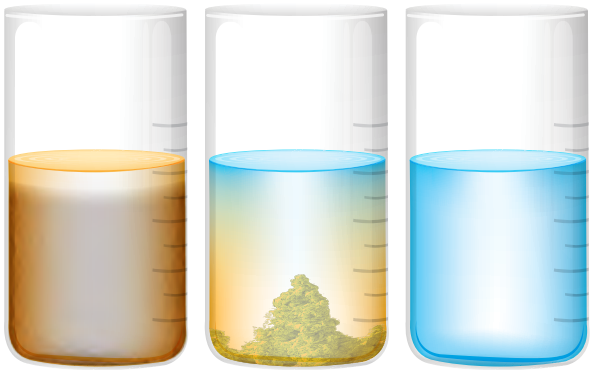
The purpose of flocculation is to create additional adhesion between the agglomerated mater by mixing a flocculent chemical into the water. The process creates larger agglomerations and adds molecular weight to the matter, which enhances the separation and removal process of the contaminants from the water.



Commonly (-) charged matter that creates a repelling force

Addition of (+) cationic coagulant

Addition of flocculent to collect & add molecular weight



After coagulant has been applied

After chemical flocculent has been applied

After running through IPF filter media paper

ADVANTAGES

Coagulation

When combined with other technologies, chemical coagulation or electro-coagulation can produce exceptional water quality with minimal maintenance and can successfully treat broad ranges of waste streams.

TECHNOLOGY MODULAR WATER TREATMENT

An innovation in water treatment solutions, the Innovator Series includes a variety of modular products and technologies designed to treat industrial wastewater from a wide range of applications. Subject to the wastewater characteristics and the application requirements, individual modules can be selected and incorporated into a complete solution.

COAG2-20A

EC2-20A

PRODUCT CoAg2-20A

A proprietary (patent pending) water treatment system that incorporates chemical coagulation and chemical flocculation technology. This system features industrial grade components and is simple to use and maintain, but is highly effective for treating a broad range of waste streams including suspended solids and emulsified oils. This system will automatically process water and move it downstream so that no standing water is retained within the system after processing is complete. Water is processed on a batch-feed, continual basis.

PRODUCT EC2-20A

A proprietary (patent pending) water treatment system that incorporates a new generation of Electro-coagulation and chemical flocculation technology. This system features robust industrial grade components and is simple to use and maintain, but is highly effective for treating a broad range of waste streams including suspended solids, emulsified oils, and heavy metals. This system will automatically process water and move it downstream so that no standing water is retained within the system after processing is complete. Water is processed on a batch-feed, continual basis.

TECHNOLOGY CHEMICAL COAGULATION AND FLOCCULATION

The Compact CoAg unit employs chemical coagulation and flocculation water treatment technology to enhance and speed up the process of removing suspended solids and most types of emulsified oils. This product utilizes a patented process for applying and mixing proprietary blends of chemical coagulant (CoAg+) and flocculant (EC+) to effectively de-emulsify oils and to agglomerate suspended solids.

Compact CoAg

PRODUCT Compact CoAg

The Compact CoAg unit is typically combined with a separator/final blending tank that has unique internal piping, along with an auto-purge system that results in very little standing water within the system at the end of the day. When combined with the Water Maze IPF2-20 Indexing Polishing Filter, the agglomerated solids and oils are removed from a clarified stream that can be recycled or discharged (as allowed by local regulations).

TECHNOLOGY COAGULATION, FLOCCULATION, AND FILTRATION

Compact CoAg as pre-treatment to CL-304A filtration/recycle

CL-304A with Compact CoAg

PRODUCT CL-304A and Compact CoAg System

The Compact CoAg chemical treatment module is an ideal tool for upgrading an existing system. In lieu of completely replacing a system, a small investment into additional water treatment technology presents an economical option.

BIOREMEDIATION

MODULAR BIOREMEDIATION TECHNOLOGY FOR WASH WATER & INDUSTRIAL WATER

Bioremediation is the process of applying living organisms (microbes) for the purpose of breaking down organic carbon based molecules. The metabolic process renders the organic compounds into harmless carbon dioxide and water. Bioremediation is fundamental to nature and life on earth as we know it.

Water Maze offers a series of bioremediation products, components, and modules that enhance the natural process of remediating organic compounds within a small footprint.

In some cases, these BioSystem products can be applied as a stand alone bioremediation system. However, in most cases, these products are applied as a component within an overall system. Overall, the Water Maze BioSystem employs the latest aerobic bio-technology for treating a broad range of wash water and industrial waste streams such as: water generated from washing golf and turf equipment; water generated from washing solid waste disposal equipment (i.e., trucks and trailers); and wash water with emulsified hydrocarbons (oils).

As with all Water Maze systems, pre-treatment is also an important element to any bioremediation system. Overall, a pre-treatment system for bioremediation should address the following items:

- Removal of heavy solids—heavy metals may kill microbes
- Removal of free-oils—this will effectively reduce the amount of "food" for the microbes and speeds up the microbial processing rate
- pH Control—microbial activity is most effective when the pH of the water is between 6 and 8. Higher or lower pH levels may inhibit or kill the microbes

Some of the critical design criteria that should be considered when applying bioremediation:

- pH control of the water—maintain pH between 6 and 8
- Water temperature—below 400°F will slow down the process and above 1200°F will kill microbes
- Avoid toxic conditions in the water (i.e., biocides, chlorine, corrosive gases/liquids, heavy metals—i.e., zinc, lead, copper, chrome, etc.)
- Assure that the proper ratios of nutrients are present in the water
- The system must supply an adequate amount of dissolved oxygen (DO) into the water. If not, the system will turn anaerobic and will create a malodorous condition in the immediate area
- Adequate retention time (e.g., enough time for the microbes to complete their digestive process) must be designed into the system
- Augment the microbial colony by injecting new microbes daily—assures that the microbial colony is working at peak efficiency levels, the naturally occurring microbes should be augmented with cultured microbes

WATER ANALYSIS

Bioremediation applications require a base-level water analysis to assure that the elements for design criteria have been considered before a recommendation for a BioSystem can be determined.

See page 52 for details.

ADVANTAGES

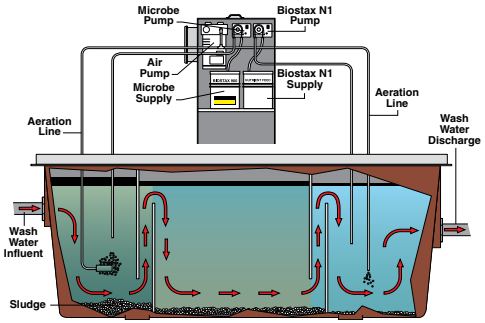
Bioremediation

Correctly applied, bioremediation can be user friendly, cost effective, and be a low cost method of treating certain types of water. However, if misapplied, bioremediation can result in poor water quality, malodorous conditions, and become on overall unpleasant experience for the end-user.

TECHNOLOGY MODULAR BIOREMEDIATION BIOSYSTEMS

Water Maze offers a variety of bioremediation products that employs the latest biotechnology for treating commercial and industrial wastewater that contains organic material (especially oils and greases, pesticides, herbicides, insecticides). Some of the features of our systems include: super-efficient aerobic microbial digesting; enhanced water circulation; routine injection of cultured microbes (non-pathogenic and non-toxic); injection of nutrients for enhance microbial health; pH control (when required); and effective removal of biomass. Our BioSystems naturally convert organic (carbon based) contaminants into harmless carbon dioxide and water. Water Maze bioremediation products vary in size and configuration. Some may be applied as stand alone product, others may be integrated with other products as part of a system.

PM-1000D



In-ground Separator

PRODUCT PM-1000 | PM-1000 Three Stage Collection Diagram
A module that incorporates: an air pump; diffuser stones, microbes and nutrients injection system with timer, the PM-1000D provides a fully automated, environmentally friendly and low-cost way to manage standing wash water found in collection pits, tanks or sump drains.

BioPuck

BioStax

BioNutrient

PRODUCT BioPuck | BioStax | BioMedia | BioNutrient
Water Maze provides a broad selection of biomedia used in biotreatment systems, collection pits, and even kitchen grease traps. These all-natural products are made up of a special proprietary blend of non-pathogenic, non-toxic bacteria designed for use in applications where pressure washers are typically found. BioPuck tablets and two-part BioStax concentrate liquid both allow for a slow release of microbes. While BioMedia provides a place for the fixed-film microbes to colonize.

TECHNOLOGY MODULAR BIOREMEDIATION BIOSYSTEMS

CONTINUED

HydroScreen

Grass Dumpster

CLT-300

Primary Digester

CLB-30 Auxilary Digester

REC2-20A

CLPB *Special*

PRODUCT CLB-600A | CLB-30

The CLB-600A is a primary bio-digester that incorporates high efficiency aerobic microbial water treatment technology. The CLB-600A module is designed for applications where the dissolved organic carbon loading is high. It can be applied as a treat and discharge system, or incorporated into a recycle system by adding the Water Maze REC2-20A recycle module. For higher flow rate applications, the CLB-30 auxiliary digester, or our CLT-600 tank can be added.

PRODUCT *Special* CLPB

The CLPB combines CLP filtration technology with our advanced biotechnology used in the CLB systems.

EVAPORATION

EVAPORATION IS THE KEY TO ENHANCE ENERGY EFFICIENCY AND COST SAVINGS

Water volume reduction using evaporation technology can be an economical alternative to the high costs associated with off-site disposal of water, which can exceed $1 USD per gallon. Evaporation operational costs can be a small fraction of the off-site disposal costs. In that, 90% or more of the water being hauled off-site contains mostly water, our evaporation systems may achieve up to a 95% volume reduction. This can translate into major costs savings and a quick return on investment for the purchase of the equipment.

WASTEWATER EVAPORATORS ARE TYPICALLY SOLD TO CUSTOMERS THAT:

- Are paying for off-site disposal of their wastewater
- Want to reduce their disposal cost by as much as 95%
- Want to reduce their liability exposure related to off-site disposal
- May achieve a return on investment (ROI) in less than two years

Wastewater evaporator applications normally have smaller volumes of wastewaters with characteristics that are too complex and expensive for traditional treatment methods.

The process of evaporation is a thermal exchange of heat into the body of water. Water Maze offers a variety of evaporators that employ different thermal transfer technologies that engage various power sources, natural gas (NG), liquid propane (LP), or electricity, to custom fit each solution.

- Hot-plate water evaporation
- Submerged combustion heat transfer evaporation
- Indirect heat evaporation

CRITICAL ISSUES THAT SHOULD BE CONSIDERED:

- How clean is the water? Is pre-treatment required? Dirty water (i.e., suspended solids, emulsified oils, etc.) will concentrate inside of the evaporator and increase the viscosity of the water, which will reduce the heat transfer efficiencies and may result in higher maintenance
- The pH of the influent water should be balanced
- The influent water must not be flammable
- Water Maze highly recommends that a “Base Analysis for Evaporators” (refer to list of tests) be performed on a representative sample of the evaporative waste stream
- Water Maze offers a written Feasibility Report that is based on the laboratory data

WATER ANALYSIS

Evaporator applications require a base-level water analysis to assure that the elements for design criteria have been considered before a recommendation for an evaporation system can be determined.

See page 53 for details.

TECHNOLOGY HOT-PLATE WATER EVAPORATION

Water Maze utilizes two similar hot-plate water evaporation technology approaches. The first is a natural gas or LP system that incorporates a lower heat chamber and an upper water tank that is made of either carbon steel, for high chloride applications, or two different grades of stainless steel. Secondly, an electric system with multiple industrial grade electric coiled burners, mounted under the evaporator tank in easy-access service tray.

HBG-15D

HBG-30D

HBE-10B | HBE-10C *Special*

PRODUCT HBG-30D | HBG-15D

Capable of evaporating wastewater at 15 and 30 gallons per hour. The natural gas-heated HBG systems have two models available to suit the flow rate required. The combustion box in the HBG models is made of advanced heat reflective material and features a unique energy-efficient design for reflecting the heat directly onto the floor of the evaporation tank for energy cost savings. A high-efficiency burner shoots a flame, fueled by natural gas or propane, into the combustion chamber for unusually high energy efficiency. The unit is made of heavy-duty steel, insulated and double lined for both energy efficiency and safety.

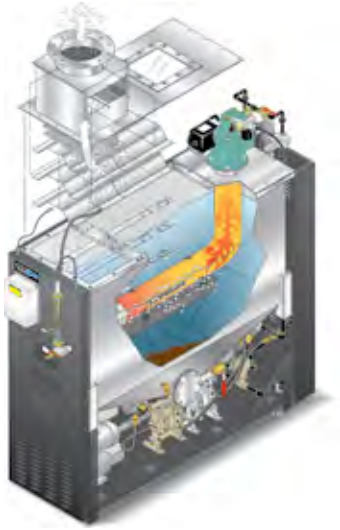
PRODUCT *Special* HBE-10B | HBE-10C

The all-electric HBE, featuring eight 2600-watt coil-type heater, has one model with either 230V 3ph or 460V 3ph configurations. They are both capable of evaporating wastewater at eight gallons per hour. Features include: heavy-duty tank made of carbon steel with optional alloy upgrades to 316L or AL-6XN stainless steel; non-fouling, stainless steel, liquid level assembly prevents damage to the system with a redundant third float for protection against overflowing; NEMA 4 electrical box with operational controls as well as troubleshooting indicator lights; three-inch, recessed drain port for easy sludge removal.

TECHNOLOGY SUBMERGED COMBUSTION WATER EVAPORATION

Patented, super-energy efficient system using submerged combustion in which heat is forced through a submerged tube and released directly into the water for 100% heat exchanger efficiency and dramatic operational and energy cost savings.

WB-120A



PRODUCT WB-50 | WB-120A

The WB series is the first to use the extra-high efficient submerged combustion technology. There are two models for handling waste streams at 60 and 120 gallons per hour. Featuring top-of-the-line immersion tube jet burner components, with a solid-state flame control monitor, the WB models are capable of creating temperatures of up to 2000°F, releasing hot flue gases directly into the water.

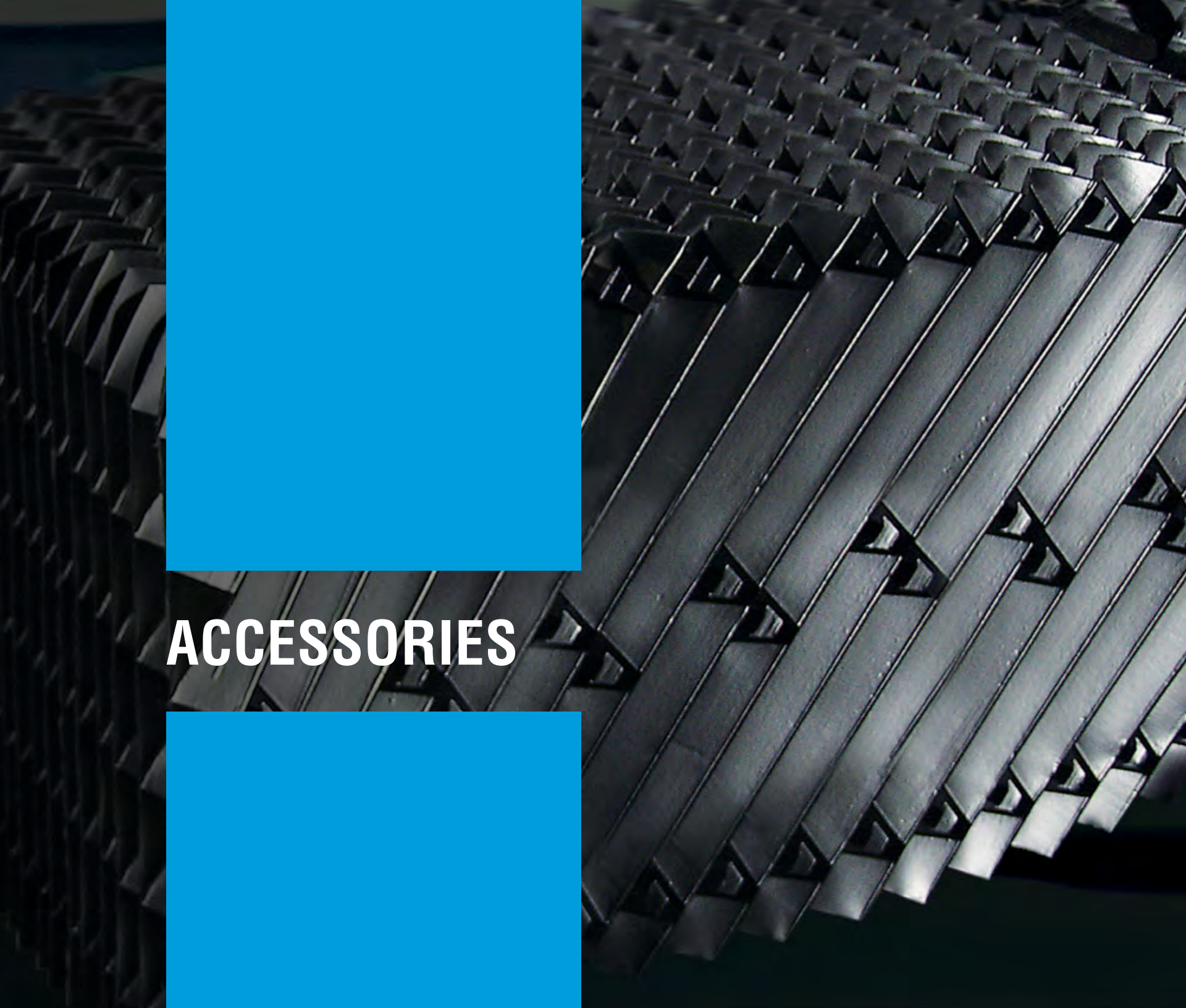
TECHNOLOGY LOW-VOLUME EVAPORATION

Electric-powered and perfect for low-volume applications, evaporator belts heating elements do not come in contact with the wastewater. Evaporation is achieved by indirect heat through standard steel storage containers, making the evaporator belt an easily implemented and adaptable option when low-volume evaporation is needed.

Evaporation Belt

PRODUCT Evaporator Belt

An economical alternative for low-volume evaporation, the Evaporator Belt is ideal for evaporating very low volumes of wastewater. The electric-powered belt wraps around a standard 55-gallon steel drum and slowly heats non-flammable liquids to temperatures of 70° to 250°F. The heavy-duty aluminized steel belt includes thermostatic control and weighs only 14 pounds.



ACCESSORIES

ADD-ONS AND ACCESSORIES ENHANCE THE EFFECTIVENESS OF INDUSTRIAL WASTEWATER TREATMENT SYSTEMS

Water Maze offers a broad selection of add-on accessories and consumables that support the performance of your water treatment systems.

HIGH VOLUME WASH AND SEPARATION

When washing industrial equipment with heavy dirt and mud loads, we recommend our Water Blasters or Water Cannons. A quick and cost effective method for pre-washing a vehicle. For a thorough cleaning, high-volume pumps are a much more effective way to knock off heavy dirt.

Water Blaster

Water Cannon *Special*

PRODUCT Water Blaster

The Water Blaster delivers up to 25 GPM of water volume—nearly 6 times more than most pressure washers—along with 500 PSI of pressure to knock off heavy dirt with ease.

PRODUCT *Special* | **Water Cannon**

For use with the Water Blaster

The Water Maze Pre-Wash Solids Separator quickly removes large amounts of dirt and mud from water used in cleaning earth-moving and other heavy equipment. The water can then be recycled to a water cannon at a rate of up to 150 GPM for knocking off heavy dirt. The separator is more than a pump and motor. It is an engineered wash-water recycling system that automatically draws water out of the wash pad collection pit, spins out the heavy solids using a cyclone separator, then sends it down the hose for re-use.

SLUDGE AND ORGANIC CONTENT REMOVAL

Post and Pre-Treatment accessories that are perfect for removing sludge and organic content from your wash water and collection pits.

Pit Cleaner

HydroScreen

Grass Dumpster CLT-300

PRODUCT Pit Cleaner

Cleaning sludge from the bottom of a collection pit is neither easy nor fun. But the Pit Cleaner makes it bearable. An extended wand is attached to a pressure washer, with a minimum of 1000 PSI. The pressure is channeled so that it creates a vacuum, capable of suctioning mud and sludge from the bottom of a pit or even a pond. The sludge is deposited into a porous collection bag, mounted on a hand truck, where the water drains out and the sludge is allowed to dry for eventual disposal.

PRODUCT HydroScreen and Grass Dumpster

The HydroScreen and Grass Dumpster are designed to work together to collect and remove high organic solid matter content from wash water, such as golf courses and waste management applications.

MICROBIAL AND ODOR CONTROL

Ozone works up to 1000 times faster than chlorine, and other sanitizers, in killing bacteria without creating harmful by-products. It also acts as a deodorizer.

Ozone Generator

Ozone Generator *Special*

PRODUCT Ozone Generator

The self-contained ozone generator is ideal as a stand-alone system for ridding wastewater of odor and bacteria. The Ozone Generator includes an enclosed cabinet painted with a powder coat finish. A unique mixing procedure ensures 99% contact by the bacteria-killing ozone with the wash water—a procedure far more effective than bubbling ozone into a tank. Other features include: ¾ hp circulation pump; 24-hour timer control; and 4 ultraviolet lamps which create 24 grams of ozone per day.

PRODUCT *Special* | Ozone Generator

The system utilizes three Water Maze Series 400 UV ozone generators and one control cabinet. Two of the ozone generators will need to be field installed on a wall-mount bracket (bracket not included). The standalone control cabinet includes a circulation pump, 24-hour timer control, and inlet/outlet PVC connections. A larger piping manifold with mazzei injectors are supplied to ensure 99% contact by the bacteria-killing ozone with the wash water - a procedure far more effective than bubbling ozone into a tank. The special ozone generator cabinet is also made of stainless steel.

TECHNOLOGY RECYCLE WATER / RECIRCULATION MODULE

The Clean Water Recycle Module automatically manages the flow of treated water for reuse. It can be applied as a stand-alone module for the Water Maze EC2 system or CoAg system, and may also be applied to other applications where water recycling is required.

REC2-20A

PRODUCT REC2-20A

This product is a small footprint, water management control center that receives processed water from another source. The unit includes: a pump to transfer pretreated water into a clean-water holding tank (tank supplied by others); a ¾ HP pump with mazzei injector to circulate water in the clean-water holding tank; a transfer pump with pressure tank and manifold piping system to transfer the clean water back to the point of use; an electrical control center; fresh water makeup and excess water discharge system with float controls.

TECHNOLOGY ENVIRONMENTAL CONTAINMENT

The Water Maze above ground containment rack systems makes shipping and installing a wash rack easier than ever. With no permitting required, this bolt together system can be installed in a matter of hours.

DRIVE-ON/BACK-OFF CONFIGURATION (18 FEET WIDE MODEL)

DRIVE-THROUGH CONFIGURATION (18 FEET WIDE MODEL)

PRODUCT *Special* | **Environmental Containment Racks** | **Steel Wash Pads**

The low profile modular design with a maximum deck height of 6" (15.24 cm) can be purchased in various sizes and configurations to meet your current site requirements. The modular design also allows for shipping under LTL freight rates, or inside of an ocean cargo container for export.

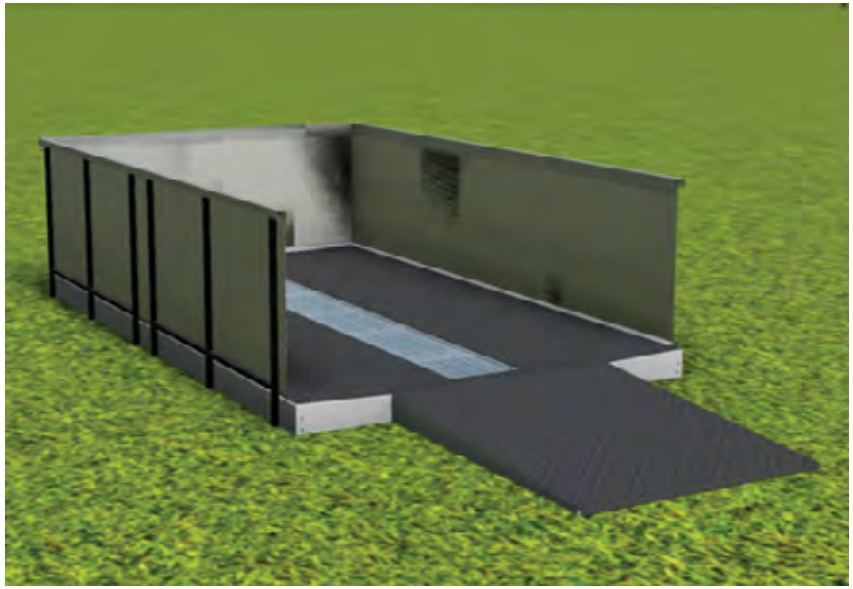
Multiple Ramp options available:
- *Drive-On / Back–Off or Drive-Through*
- *Available in 9' wide and 18' wide models*
- *Diamond plate deck surface*
- *Deck height 6"*

Contact Water Maze for additional options available.

TECHNOLOGY ENVIRONMENTAL CONTAINMENT

CONTINUED

DRIVE-ON/BACK-OFF CONFIGURATION (9 FEET WIDE MODEL)



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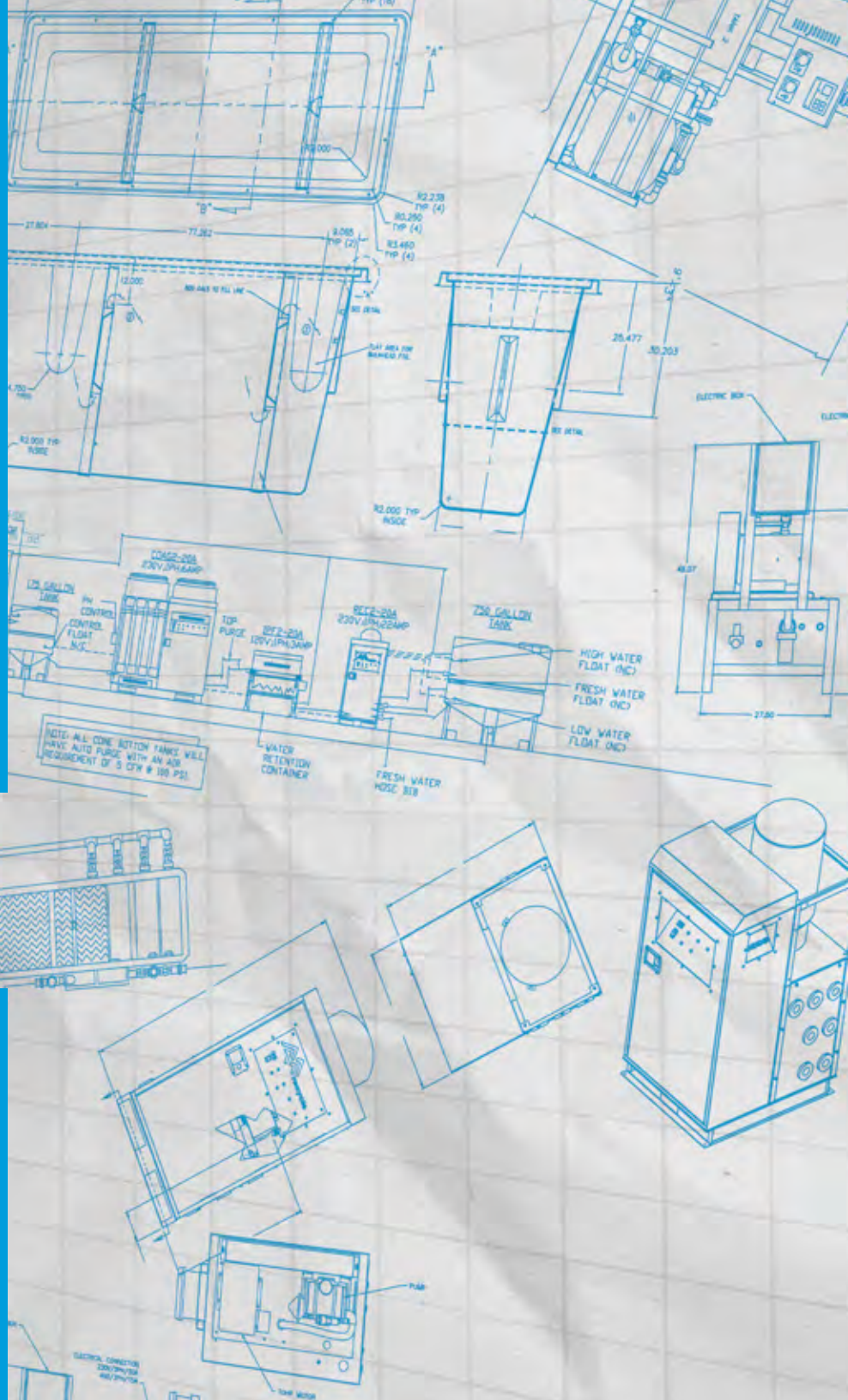
CONVEYOR OPTION (FOR 18 FEET WIDE OR GREATER CONTAINMENT RACKS)

DRAFTING & INSTALLATION



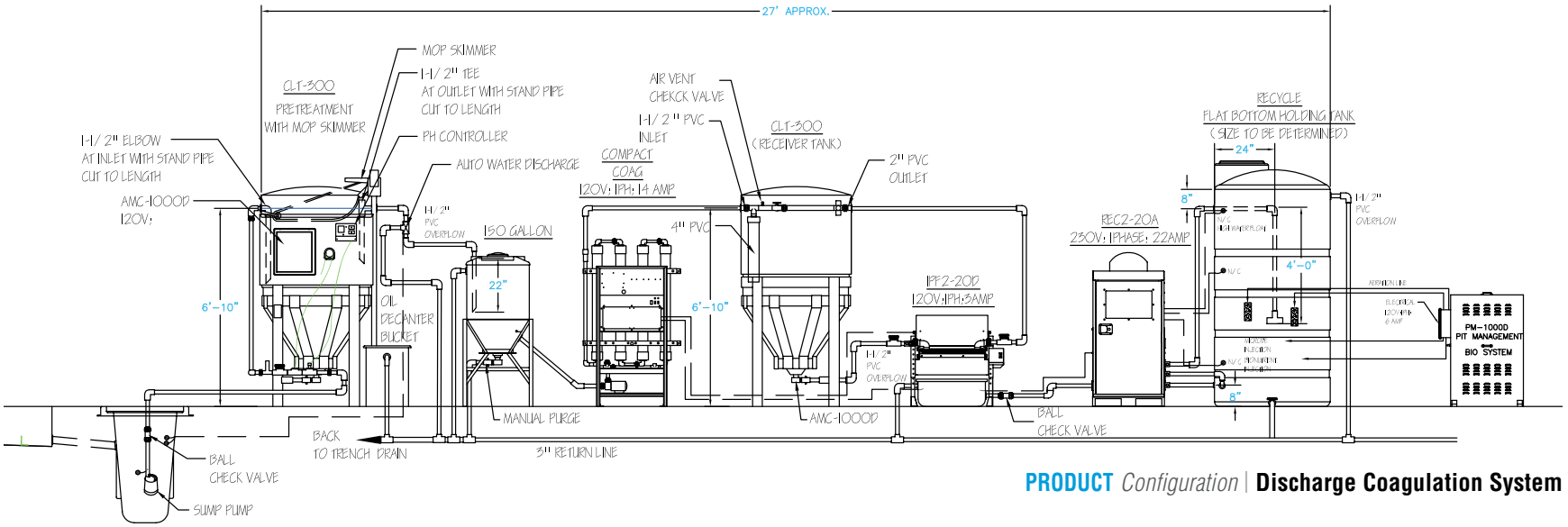
EXPERTLY DESIGNED AND INSTALLED TO MEET EACH SPECIFIC COMPLEX WATER TREATMENT CHALLENGE

Water Maze manufactures the building blocks that are integrated into complete water treatment solutions. Our team of experienced Regional Sales Managers and Design Engineers look at every application and custom design a water treatment system to fit each application and it's requirements. Water Maze partners with authorized local distribution centers to perform on site application surveys, as well as collect water samples for in lab analysis, to better understand how to address the customer's application requirements.

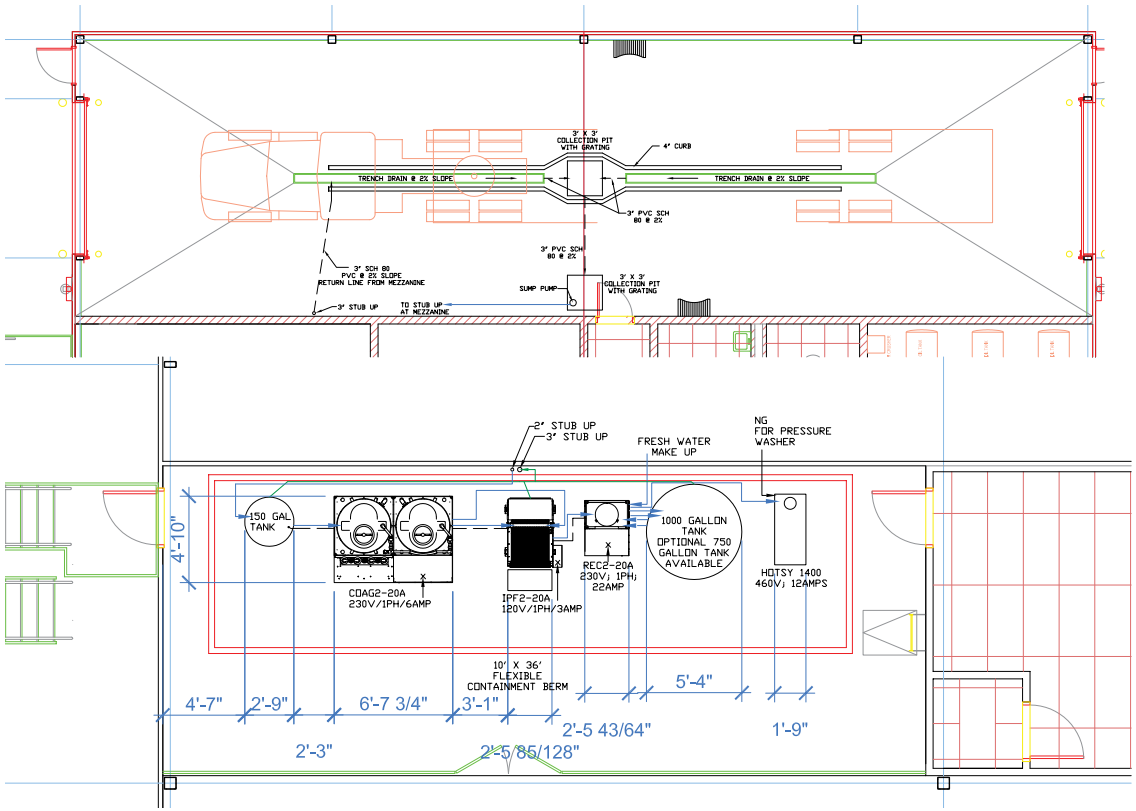
Water Maze offers a library of pre-existing concept drawings that cover various water treatment applications to aid the customer in selecting the correct design for the application, and intended use of the water treatment equipment.

Water Maze staff will work hand in hand with architectural firms and engineering consultants to create and provide site specific conceptual AutoCAD drawings on wash pad designs, in-ground pit and trench drain configurations, as well as plan view and elevation view equipment layouts.

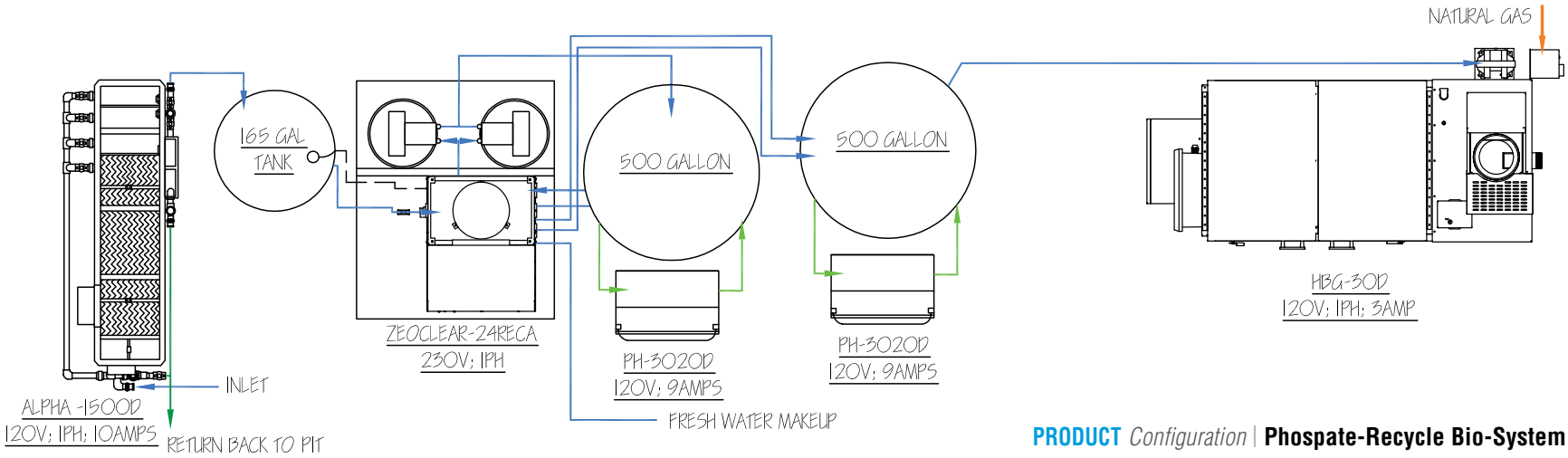
Water Maze partners with local distribution centers to provide installation, equipment start up services, as well as train your technicians to safely operate and maintain your Water Maze water treatment system.



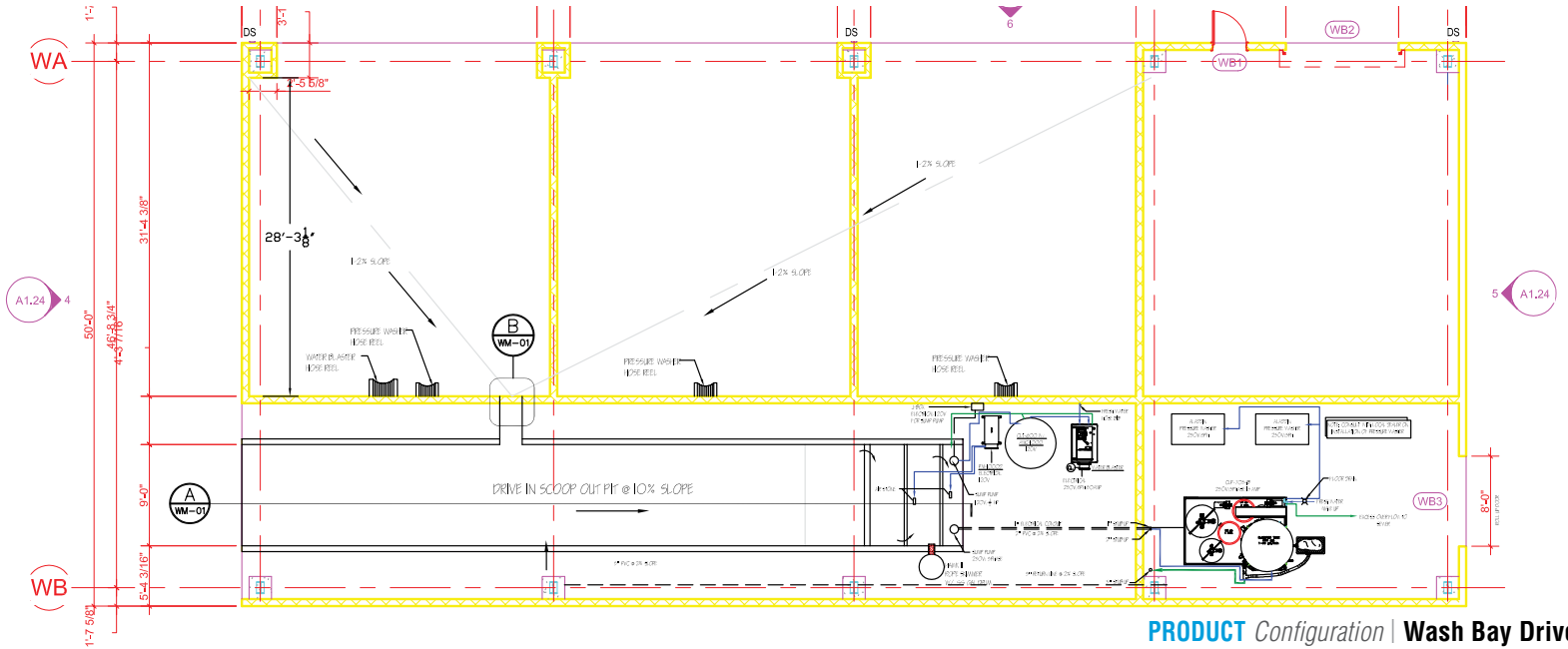
PRODUCT *Configuration* | **Discharge Coagulation System**



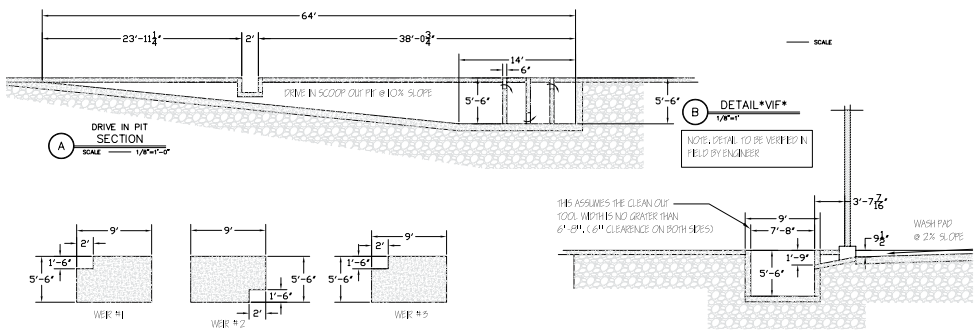
PRODUCT *Configuration* | **Trench Wash Bay and Coagulation-Recycle System with Top Purge**



PRODUCT *Configuration* | **Phospate-Recycle Bio-System**



PRODUCT *Configuration* | **Wash Bay Drive In Pit System**



CLT-300 *Special* with OWS

ZeoClear Skid *Special* with REC2-20A Recycle Module

PRODUCT *Configuration* | **CLT-300 with ZeoClear Skid with REC2-20A**

CLT-300 *Special* with OWS

150-gallon Feed Tank

Compact CoAg with CLT-300 Seperator Tank

IPF2-20A Filter

REC2-20A Recycle Module

Processed Water Storage Tank

PRODUCT *Configuration* | **Chemical Treatment System**

PRODUCT *Configuration* | **Compact CoAg Recycle System**

PRODUCT *Configuration* | **CL-30 OWS with CoAg2-20A**

PRODUCT *Configuration* | **Chemical Treatment Recycle System with CLT-300 Special Pre-Treatment Module**

PRODUCT *Application* | **Recycle**
CLT-600 | CoAg2-20A | IPF2-20D | REC2-20A

PRODUCT *Application* | **High Volume Mud**

PRODUCT *Application* | **Drive-in Scoop Out Pit System**

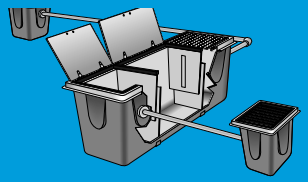
PRODUCT *Application* | **Treatment and Discharge**
CoAg2-20A | IPF2-20D

PRODUCT *Application* | **Two Systems Running in Parallel**

waterMaze
WATER TREATMENT SYSTEMS

PRE-TREATMENT

PH-3020D



SUMP PIT | COLLECTION PIT
CATCH BASIN

CLT-600

CLT-300

FLAT BOTTOM TANK

CONE BOTTOM TANK

SPECIFICATIONS

	PART #	DESCRIPTION	VOLTAGE	AMPS
PH-3020D	1.103-458.0	pH Permissive Control System	120	9

8.903-682.0	Optional Auto Fill (SS sump pump, fittings and floats)
8.903-681.0	Optional Holding Tank, 300 gal. (valves and hose)

	PART #	DESCRIPTION	MATERIAL	INSIDE DIMENSIONS	GPM
Collection Pit	8.903-657.0	In-ground Oil Separator Pit	Fiberglass	3' x 9' x 5'	60
Catch Basin	8.709-333.0	In-ground Basin	Fiberglass	3' x 3' x 4.5'	—
Sump Pit	8.709-334.0	In-ground Sump Pit	Fiberglass	2' x 2' x 3'	—

8.903-674.0	Cover for Collection Pit (#8.903-657.0), Hinged Aluminum Diamond Tread Plate w/ Steel Tube Frame, 3' x 9'
8.903-673.0	Coalescing Grid Packs, 58 Plates, 1,700 sq. ft. Surface Area
8.903-678.0	Cover for Catch Basin (#8.903-658.0), Aluminum Diamond Tread Plate, 3' x 3'
8.903-677.0	Grating for Catch Basin* (#8.903-658.0), Hot Rolled Steel, 1/2" x 2" Flatbar, 1.5' x 3' (includes 2 grates)
8.903-675.0	Cover for Sump Pit (#8.709-334.0), Aluminum Diamond Tread Plate with Steel Tube Frame, 2' x 2'
8.903-676.0	Grating for Sump Pit* (#8.709-334.0), Hot Rolled Steel 1/2" x 2" Flatbar, 2' x 2'

*Gratings meet H-20 truck load rating

	PART #	DESCRIPTION	STAND	MATERIAL	CAPACITY (GAL)
CLT-600	1.103-435.0	Polishing Tank	■	—	600
CLT-300	1.103-434.0	Polishing Tank	■	—	300
Storage Tank	8.719-172.0	Intermediate Flat Bottom Tank	—	Polyethylene	165
Storage Tank	8.719-173.0	Cone Bottom Tank	■	Polyethylene	310
Storage Tank	8.725-510.0	Cone Bottom Tank	—	—	150

8.716-422.0	Auto-purge Valve (valve only)
8.903-782.0	Auto-purge Valve; Configured with CLB Units
1.103-406.0	AMC-1000, Maintenance Control Retrofit Kit, 120V
8.715-367.0	Sump Pump (for pumping water from collection pit)

CLP-7034

CLP-5024

DELTA-1500A

CL-304A

PAC III

IPF2-20D

	PART #	DESCRIPTION	MEDIA FILTER (LBS)	CARBON FILTER (LBS)	FLOW GPM	VOLTAGE	PHASE	AMPS
CLP-7034A	1.103-431.0	Automated Water Recycle	950	320	1-30	230	1	30
CLP-7034B	1.103-432.0	Automated Water Recycle	950	320	1-30	230	3	15
CLP-7034C	1.103-433.0	Automated Water Recycle	950	320	1-30	460	3	9
CLP-5024A	1.103-421.0	Automated Water Recycle	275	275	1-10	230	1	18
CLP-5024B	1.103-422.0	Automated Water Recycle	275	275	1-10	230	3	12
CLP-5024C	1.103-423.0	Automated Water Recycle	275	275	1-10	460	3	8
DELTA-1500A	Special	Self-Contained Water Recycle	550	200	1-15	230	1	16

8.903-686.0	Upgrade Platform to Stainless Steel, CLP-7034
8.903-686.0	Upgrade Platform to Stainless Steel, CLP-5024
Special	Upgrade Platform to Stainless Steel, DELTA-1500A
Special	ORP/pH Digital Controller, Model 250, 2 Pumps, DELTA-1500A

	PART #	DESCRIPTION	OZONE GENERATOR	FLOW GPM	VOLTAGE	PHASE	AMPS
CL-304A	1.103-409.0	Compact Wash Water Recycle	Chlorinator	1-5	230	1	15

8.903-683.0	Upgrade Platform to Stainless Steel, CL-304

	PART #	DESCRIPTION	MEDIA FILTER (LBS)	CARBON FILTER (LBS)	CARTRIDGE FILTER (SQ FT)	VOLTAGE	PHASE	AMPS
PAC III	8.903-715.0	Filtration Module	330	300	500	230	1	10.5
PAC III	8.903-716.0	Filtration Module	330	300	500	230-460	3	5.6-2.8
PAC III	Special	Filtration Module with Auto-Back Wash System						

	PART #	DESCRIPTION	FLOW GPM	HEIGHT (INCHES)	CONTAINER GALLONS	VOLTAGE	PHASE	AMPS
IPF2-20D	1.103-488.0	Innovator Indexing Polishing Filter	1-20	37.56	—	120	3	—
IPF2-20A	Special	High-Boy Indexing Polishing Filter	1-20	47.56	82	120	3	—

8.917-279.0	Water Retention Container (approximately 40-gallon capacity)

OIL & WATER SEPERATION

ALPHA-3100D

CL-600D

CL-30A

SPECIFICATIONS

	PART #	DESCRIPTION	COALESCING AREA (SQ FT)	CAPACITY (GAL)	FLOW GPM	VOLTAGE	PHASE	AMPS
ALPHA-3100D	1.103-402.0	Above-ground Separator	1000	250	1-30	120	1	10
ALPHA-1500D	1.103-401.0	Above-ground Separator	500	125	1-15	120	1	10

8.903-694.0	Auto-Water Discharge (automatically switches between recycle and discharge modes)
8.903-647.0	ORP/pH Digital Controller, Model 250, 2 Pumps
8.913-331.0	Alpha Lid for 3100D, Aluminum
8.913-332.0	Alpha Lid for 1500D, Aluminum

	PART #	DESCRIPTION	OZONE GENERATOR	CAPACITY (GAL)	FLOW GPM	VOLTAGE	PHASE	AMPS
CL-600D	1.103-410.0	Clarifier Discharge System	24g/day	600	1-30	120	1	20
CL-30A	1.103-408.0	Clarifier Discharge System	—	600	1-30	230	1	4.6
CL-30A	Special	CL-30A without the 165-gal tank and pump	—	300	1-30	230	1	4.6

8.903-695.0	Auto Purge (automatically removes solids from CL-600 only cone-bottom tank; not applicable to CL-30 or CLT models; compressed air required, 3 cfm at 60-100 PSI)
8.903-651.0	ORP/pH Controller, Model 250, 2 Pumps, Factory Upgrade CL-600D only
Special	Auto-Water Discharge (automatically switches between recycle and discharge modes for CL-6000, CL-30A)
1.103-406.0	AMC-1000, Auto Purge Infield Retrofit Kit, 120V
8.716-989.0	pH-only Controller with Probes (stand alone)
8.715-379.0	VSP 20 Metering Pump, 120V
8.906-478.0	Sludge Tub with Lid
8.903-683.0	Upgrade Platform to Stainless Steel, CL-304

COAG2-20A

EC2-20A

REC2-20A

COMPACT COAG

	PART #	DESCRIPTION	COAGULATION	FLOCCULATION	FLOW GPM	VOLTAGE	PHASE	AMPS
CoAg2-20A	1.103-487.0	Innovator Water Treatment Skid	Chemical	Chemical	1-20	230	1	6
EC2-20A	1.103-486.0	Innovator Water Treatment Skid	Electro	Chemical	1-10	230	1	44

8.917-355.0	Stainless Steel Skid with Zinc Epoxy Powder Coat Finish
8.917-354.0	pH Control Kit: includes pH Controller, Peristaltic Pump, Inline Mixing Tubes (factory installed)
8.917-356.0	65-gallon Clean Water Reservoir with Fill Kit (e.g., float valve, hose connection, bulkhead fitting) for EC Cell Flushing for Discharge Applications Only (EC2-20A only)

	PART #	DESCRIPTION	COAGULATION	FLOCCULATION	FLOW GPM	VOLTAGE	PHASE	AMPS
REC2-20A	1.103-489.0	Innovator Water Management Center	—	—	1-20	230	1	22

8.917-652.0	Stainless Steel Skid with Zinc Epoxy Powder Coat Finish
8.917-651.0	UV Ozone Generator (series 400) with Mounting Bracket Add-ons to Innovator Series
1.103-467.0	PM-1000D BioSystem – Bioremediation for Dissolved Organics
1.103-406.0	AMC-1000, Auto-purge Maintenance Control Retrofit Kit, 120V

	PART #	DESCRIPTION	COAGULATION	FLOCCULATION	FLOW GPM	VOLTAGE	PHASE	AMPS
Compact CoAg	1.103-510.0	Innovator Water Treatment System	Chemical	Chemical	1-20	120	1	4

8.921-729.0	Factory installed - pH (only) Controller with one peristaltic pump electrically interfaced with the infeed pump / sump pump circuit
8.921-730.0	Factory mounted AMC-1000D, Auto-Purge System Includes: mounting of control center on the chassis of the Compact CoAg and the air actuated auto-purge valve supplied as a loose item (compressed air required 3 cfm @ 85 PSI)

CHEMICAL COAG TREATMENT CONSUMABLES

8.725-445.0	CoAg+ Coagulant – 5 Gallons
8.725-446.0	CoAg+ Coagulant – 55 Gallons
8.940-586.0	EC+ Flocculant (Polymer) – 5 Gallons
8.725-508.0	EC+ Flocculant (Polymer) – 55 Gallons
8.750-280.0	Metal R+ Coagulant – 5 Gallons
8.750-281.0	Metal R+ Coagulant – 55 Gallons
8.749-550.0	Liquid Alum (Aluminum Sulfate) – 5 Gallons (pH control)
8.749-549.0	Liquid Alum (Aluminum Sulfate) – 55 Gallons (pH control)
8.752-171.0	Fabric Media, Filter – 50 Micron x 1100 Yards
8.752-173.0	Fabric Media, Filter – 20 Micron x 650 Yards
8.752-172.0	Fabric Media, Filter – 5 Micron x 500 Yards
9.807-472.0	Replacement Electrolytic Cell (for EC2-20A)
8.716-143.0	Control Float Switch for Infeed Pump (EC2-20A, CoAg2-20A or REC2-20A)

CLB-603A

CLB-600D

CL-30A

PM-1000D

ZEOCLEAR FILTER/REC SKID

SPECIFICATIONS

	PART #	DESCRIPTION	TYPE OF SYSTEM	BIO-MEDIA AREA (SQ FT)	CAPACITY (GAL)	VOLTAGE	PHASE	AMPS
CLB-603A	1.103-417.0	Main Bio-digestion Unit	Recycle	2,087	600	230	1	20
CLB-600D	1.103-416.0	Main Bio-digestion Unit	Discharge	2,087	600	120	1	9
CLB-30D	1.103-414.0	Discharge Capacity Tank	Auxiliary	2,087	600	120	1	1
PM-1000D	1.103-467.0	Automatic Pit Management System	BioStax	—	—	120	1	4

WATERSTAX GOLF COURSE SYSTEMS	
8.903-602.0	Grass Dumpster with SS Mesh-lined Dewatering Screen
8.903-783.0	HydroScreen, Stainless Steel, Grass Slide Assembly with Hose Grass Screen, Stainless Steel, for HydroScreen
8.903-784.0	Mounting Bracket for Attaching HydroScreen to CLT-300
ADD-ONS TO ALL OR DESIGNATED BIO-SYSTEMS	
8.903-780.0	Pressure Pump, 2 HP, for Upsizing ¾ HP Pump (CLB-603)
8.903-785.0	Oil Separation Assembly, Automatic, with Collection Tank, 26-gallon Capacity
8.906-478.0	Sludge Tub with Lid
8.903-781.0	pH Controller (CLB-603A)
8.903-787.0	pH Controller (CLB-600D)
Special	Factory Installed Air Pump System (CLB-603, CLB-600, CLB-30)
ACCESSORIES FOR CLB-30 ONLY	
8.716-422.0	Auto-purge Valve (valve only)
8.903-782.0	Auto-purge Valve; Configured with CLB Units
1.103-406.0	AMC-1000, Maintenance Control Retrofit Kit, 120V
8.715-367.0	Sump Pump (for pumping water from collection pit)

	PART #	DESCRIPTION	TYPE OF SYSTEM	RECYCLE FLOW RATE (GPM)	FLOW (GPM)	VOLTAGE	PHASE	AMPS
Filter/Rec Skid	Special	ZeoClear Filter Skid Recycle Module	Recycle	1-20	1-16	230	1	20

Special	Stainless Steel Skid (ZeoClear skid)
Special	18 Inch Diameter Media Filters Flow Rates Up to 24 GPM
8.917-651.0	Factory installed UV Ozone Generator (approximately 24 grams per day) Mounted Inside of the Above REC Cabinet
Special	Increase Transfer Rate of Recycled Water up to 30 GPM
8.917-652.0	Stainless Steel Skid on the REC2-20A Unit
WATER ANALYSIS AND KIT FOR BIOREMEDIATION SYSTEMS	
8.719-148.0	Base Analysis for Bioremediation (includes Total BOD, Dissolved BOD, TSS, COD TKN, Total Oils & Greases, Total Phosphorous, Ortho Phosphorous, Nitrate, TOC, Dissolved Phosphorus, CNP-Carbon, Nitrogen, Phosphorous)
8.719-147.0	Bioremediation Waste Stream Sampling Kit

WB-120A

WB-50A

HBG-30D

HBG-15D

HBE-10B

EVAPORATOR BELT

	PART #	DESCRIPTION	BTU	EVAPORATION TECHNOLOGY	FLOW RATE (GPH)	EXHAUST STACK	CAPACITY (GAL)	VOLTAGE	PHASE	AMPS
WB-120A	1.103-473.0	Wastewater Evaporator - Natural Gas	1,142,000	Combustion	1-120	12"	170	230	1	30
WB-50A	1.103-474.0	Wastewater Evaporator - Natural Gas	571,000	Combustion	1-60	10"	76	230	1	20
HBG-30D	1.103-449.0	Wastewater Evaporator - Natural Gas	390,000	Hot-Plate	1-30	10"	100	120	1	3
HBG-15D	1.103-448.0	Wastewater Evaporator - Natural Gas	200,000	Hot-Plate	1-15	6"	70	120	1	3
HBE-10B	Special	Wastewater Evaporator - Electric	—	Hot-Plate	1-8	—	55	230	3	57
HBE-10C	Special	Wastewater Evaporator - Electric	—	Hot-Plate	1-8	—	55	460	3	28

STAINLESS STEEL TANK UPGRADES

8.903-729.0	Conversion of WB-120 Tank and Tube to AL-6XN
8.903-725.0	Conversion of WB-50 Tank and Tube to AL-6XN
8.903-749.0	Conversion of HBG-30 Tank to 316L Stainless Steel*
8.903-750.0	Conversion of HBG-30 Tank to AL-6XN*
8.903-746.0	Conversion of HBG-15 Tank to 316L Stainless Steel
8.903-747.0	Conversion of HBG-15 Tank to AL-6XN

CONVERSION KITS AND ACCESSORIES

8.906-066.0	Factory Conversion of WB-50/120 from Natural Gas to Propane
8.903-762.0	Foam Detection System for WB
8.903-766.0	Wastewater Flame Injection System for WB-50
8.903-767.0	Wastewater Flame Injection System for WB-120
8.906-076.0	Factory Conversion of HBG-15 from Natural Gas to Propane
8.906-077.0	Factory Conversion of HBG-30 from Natural Gas to Propane

AUTO FILL FACTORY CONVERSION KIT

8.903-740.0	Air Diaphragm Fill Pump & Level Controls for Auto Fill for HBG (compressed air required, 3 cfm at 60-100 PSI)
8.903-753.0	Electric Centrifugal Fill Pump & Level Controls for Auto Fill for HBG*

MOTORIZED BELT OIL SKIMMER

8.903-741.0	Motorized Belt Oil Skimmer, 316L Stainless Steel for HBG

CHEMICAL ADDITION SYSTEM

8.906-074.0	Chemical Injector, Defoamer, Air-Injected for HBG*
8.906-073.0	Inline Chemical Injector, for Anti-foam or Rust Inhibitor, Electric-Powered for HBG

*Special Options available for HBE-10B and HBE-10C

	PART #	DESCRIPTION	EVAPORATION TECHNOLOGY	FLOW RATE (GPH)	CAPACITY (GAL)	VOLTAGE	PHASE	AMPS
Evaporator Belt	8.707-034.0	Wrap-It-Heat Water Reduction Belt	Electric	1.4	55**	230	1	12.5

**Drum not included

WATER ANALYSES AND KITS FOR EVAPORATION SYSTEMS

8.750-241.0	Metal Analysis (includes Ag, As, Ba, Cd, Cr, Pb,Se Hg, Cu, Zn, Ni)
8.750-242.0	Base Analysis for Evaporators (includes analysis of pH dissolved and suspended solids, Total Oils & Greases, NP [Non-Polar] Oils & Greases, Anions [Cl, NO3, o-PO4, SO4], Flashpoint, Viscosity, Cations [B, Ca, Fe, K, Mg, Na])
8.750-243.0	VOC Analysis (includes 67 VOC compounds by EPA 8260) for Evaporation Systems
8.719-146.0	Evaporator Waste Stream Sampling Kit

waterMaze
WATER TREATMENT SYSTEMS

ACCESSORIES

WATER BLASTER

WATER CANNON

OZONE GENERATOR

PIT CLEANER

DRIVE-ON / BACK-OFF (18' W)

DRIVE-ON / BACK-OFF (9' W)

DRIVE-THROUGH (18' W)

SPECIFICATIONS

	PART #	DESCRIPTION	GPM	PSI	HP	VOLTAGE	PHASE	AMPS
Water Blaster	1.103-484.0	High Pressure Cleaning	25	500	10	230	3	30
Water Blaster	1.103-472.0	High Pressure Cleaning	25	500	10	460	3	15

1.103-435.0	CLT-600, 600-gallon Cone-Bottom Tank and Stand
1.103-434.0	CLT-300, 300-gallon Cone-Bottom Tank and Stand

	PART #	DESCRIPTION	GPM	PSI	HP	PUMP	ELECTRICAL	VOLTAGE	PHASE	AMPS
30-759 B/C	Special	Pre-Wash Solids Separator	150	100	15	Cast Iron Centrifugal	NEMA 4, Mag Starter	230	3	40
30-759 B/C	Special	Pre-Wash Solids Separator	150	100	15	Cast Iron Centrifugal	NEMA 4, Mag Starter	460	3	20

	PART #	DESCRIPTION	GPM	OZONE GRAMS PER DAY	VOLTAGE	PHASE	AMPS
30-7501	1.103-457.0	Ozone Generator	1-30	1-24	120	1	8
Ozone System	Special	Ozone Generator System (requires 2 power circuits)	40-50	1-72	120		20

	PART #	DESCRIPTION	SUCTION FLOW (GPM)	DISCHARGE HOSE	PRESSURE WASHER REQUIREMENTS* PSI	GPM
Pit Cleaner	8.903-600.0	Pit Cleaner	15-40	8'x1.25"	1000-3000	2.0-5.2

*Pressure washer not included

8.709-206.0	Sludge Cart Only (includes 5 bags)
8.903-601.0	Shallow Pit Cleaner, up to 2 Feet Deep (includes 1)

	PART #	DESCRIPTION	INSIDE LxWxH*	CAPACITY (LBS)	LOWER DECK SECTIONS (MIN)	TROUGH SIZE (WxD)	ACCESS RAMPS
Rack/Wash Pad	Special	Environmental Containment Rack	7'x9'x6'	15,000	1	24"x4.5"	1-2
Rack/Wash Pad	Special	Environmental Containment Rack	7'x18'x6' 7'x18'x12'	60,000	2	24"x4.5"	1-2

*Length customized in 7' increments

Special	Custom Deck Widths
Special	Integrated Undercarriage Rinse System: 60GPM @ 100PSI; includes 10' Spray Bar System with 10 Sub Surface Nozzle Pockets Embedded into One Set of Desk Sections and a Centrifugal Booster Pumping System with Enclosed Impellers
Special	Dual Diaphragm Pump Recovery System: Includes 2 Heavy Duty Suction Pumps; Hoses and Hose Connections from One End of Drain Trough to Pump Rack
Special	Integrated Conveyor System: Automatically Removes Solids from the Center Trough System (available only for 18' wide or greater containment racks)
Special	Canopy Covers (available to fit all models)
Special	Treatment and Discharge Systems
Special	Recycle Systems

DEFOAMER A-32

ENVIRO-CLEAN

METAL R+

LIQUID ALUM

NO RUST

DETERGENT | Wash Water Applications

	PART #	SIZE	DESCRIPTION
Enviro-Clean	8.916-591.0 8.916-594.0	5 Gal 55 Gal	All-purpose detergent designed to be used through a pressure washer and still have the quick release properties for use with a wash water recycling system or oil-water separator. Quick Release | Phosphate Free | All Purpose
Enviro-Clean+Plus	8.916-589.0 8.916-592.0	5 Gal 55 Gal	Combines both the cleaning power of other detergents with oil-release properties to enhance the effectiveness of a wash water recycling system or oil-water separator. Quick Release | Low Phosphate | All Purpose
Enviro-Degreaser	8.916-590.0 8.916-593.0	5 Gal 55 Gal	Potent degreaser that also has quick-release properties so it is ideal for use when water is being treated by a wash water recycle system or oil-water separator. Quick Release | Phosphate Free | Degreaser

DEFOAMER | Evaporation Applications

	PART #	SIZE	DESCRIPTION
5600 Defoamer	8.719-138.0 8.719-139.0 8.719-140.0	1 Gal 5 Gal 55 Gal	Fast-acting defoamer concentrate that quickly suppresses froth and suds often found in waste streams bound for processing through a wastewater evaporation system. Evaporation
Defoamer A-32	8.749-779.0 8.749-778.0	5 Gal 55 Gal	All-purpose detergent designed to be used through a pressure washer and still have the quick release properties for use with a wash water recycling system or oil-water separator. Evaporation

ADDITIVES

	PART #	SIZE	DESCRIPTION
EC+ Plus Flocculant	8.940-589.0 8.725-508.0	5 Gal 55 Gal	Anionic flocculant for use with the Water Maze Innovator Series water treatment systems. It is extremely effective in wash water clarification and solids removal. Electrocoagulation | Chemical Coagulation
CoAg+ Coagulant	8.725-445.0 8.725-446.0	5 Gal 55 Gal	Proprietary coagulant, containing highly reactive polyaluminum chloride and polyamine. Highly effective at coagulating suspended solids, emulsified oils, and greases from a variety of applications. Chemical Coagulation
Metal R+ Coagulant	8.750-280.0 8.750-281.0	5 Gal 55 Gal	Easy, flexible and cost efficient solution to reduce metal concentration. It is effective against a wide array of metals and removes various co-existing heavy-metals at the same time. It is extremely cost effective and will remove Cu, Zn, Hg, Pb, Cd, Ag, Ni, Co, Fe+2, Cr+3, Au, Pt and Sn. Chemical Coagulation
Liquid Alum pH	8.749-550.0 8.749-549.0	5 Gal 55 Gal	20% liquid aluminum sulfate solution for use as a pH adjust chemical or a coagulant in water treatment adjusting agent. All Water Treatment Systems
No Rust	8.749-782.0 8.749-781.0	5 Gal 55 Gal	Concentrated corrosion inhibitor is designed to provide rust protection in Water Maze industrial wastewater evaporators. When added continuously this unique blend of chemicals will prevent corrosion to the wetted metal surfaces of a waste water evaporator. Carbon Steel Tank Evaporators
OxiMaze+*	8.750-499.0 8.750-500.0	5 Gal 55 Gal	A powerful, non-toxic, and non-corrosive oxidizer to be used as a sanitizer for very effective odor control within waste water treatment systems. All Water Treatment Systems

pH ADJUSTERS | All Water Treatment Systems

	PART #	SIZE	DESCRIPTION
pH Plus Powder	8.698-045.0	45 lbs	A pH adjust chemical in water treatment applications to raise the pH when a powder form is preferred. If dissolved in warm water, this 45 lbs. container will make 15 gallons of a liquid RTU pH adjust product. All Water Treatment Systems
pH Plus Liquid	8.698-046.0 8.698-047.0	5 Gal 55 Gal	A pH adjust chemical in water treatment applications to raise he pH. All Water Treatment Systems
pH Minus Powder	8.698-048.0	45 lbs	A pH adjust chemical in water treatment applications to lower the pH when a powder form is preferred. If dissolved in warm water, this 45 LB container will make 15 gallons of a liquid RTU pH adjust product. All Water Treatment Systems
pH Minus Liquid	8.698-049.0 8.698-050.0	5 Gal 55 Gal	A pH adjust chemical in water treatment applications to bring the pH down. All Water Treatment Systems
OxiMaze pH Balance	8.698-051.0	45 lbs	For use with the Oximaze+ Oxidizing Agent. This compatible pH adjuster will lower the pH within a water treatment system. This powder mix makes 55 gallons of RTU pH adjust product when mixed with warm water. All Water Treatment Systems

*Cannot Ship Via UPS

waterMaze
WATER TREATMENT SYSTEMS

Your Water Treatment Technology Partners for Wash Water & Industrial Water Treatment

Design | Supply | Integration | Installation | Maintenance

For more information:

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Process flow rates may vary based on the water chemistry of the specific application.
Specifications and product descriptions subject to change without notice.

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