

Water Management Technologies

WMT, Experts In Water Quality Management

Featured Products

Hydrotech Microscreen Disc And Drum Filters

The MBB, Moving Bed BioFilter

LHO, Low Head Oxygen Systems

Vaki, Fish Counters

Fischtechnik, Fish Graders

OxyHandy Oxygen Meter

Monitrol Controllers

12 Hour Belt Feeder

Committed To Improving Water Quality

Water Management Technologies, Inc. (WMT) offers a comprehensive line of equipment to satisfy a variety of water quality concerns. Whether you are installing a new system or upgrading an old one, our team of specialists will provide solutions that work.

Our broad product line, from the best manufacturers, is well selected to deliver dependable results. Among our many components offered, you will find Disc and Drum Filters, The Moving Bed BioFilter, Oxygen Injection, Fish Counters and Biomass Assessment Equipment, Fish Graders, Feeders, Feeding Systems, Chillers/Heaters, Blowers, Pumps, Ozone, Degassing, Monitoring Devices/Alarms/Controls, Fish Transport and more.

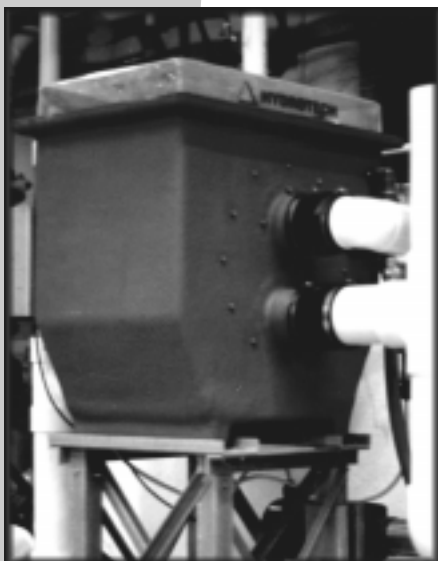
Effective October 1, 1998 WMT is moving into new offices. Stay tuned for new products. Let us know if you wish to continue receiving information similar to this piece. Also visit our web site for a listing of products and a special section on projects we have performed in the past. We recycle right!

Hydrotech Microscreen Drum & Disc Filters

Hydrotech Microscrees are mechanical, self-cleaning filters designed to achieve high performance in systems where prevention of particle fragmentation is essential. Solids laden water gravity flows through the filter and solids catch on the inside of the screen. The filter

works without pressure and is designed with few moving parts to ensure long life and low maintenance costs.

Hydrotech's patented filter elements greatly simplify both the replacement and change out of the filter opening size. WMT carries a complete inventory of spare parts. The drum's construction facilitates maintenance and makes it easily adaptable to your flow capacity needs and other performance requirements. The Hydrotech Drumfilter is specially suitable in fish farming systems where it is essential to prevent the particles from fragmentation. Both in recirculating systems and in open systems for intake and outlet water.



Hydrotech Filter 501 - Flow Rate= 132 gpm

Hydrotech has over 40 standard sizes of microscreens with filter openings from 10 microns up.

Typical applications:

- Effluent polishing to remove fish feces and uneaten feed prior to discharge into the environment.
- Intake water to flow through systems.
- Recycle systems
- P Prior to heat exchangers



3 models 1607-24 with flow capacity = 16000 gpm

Hydrotech Discfilters are effective for a wide range of uses including effluent polishing, solids removal and product recovery. The disc design is particularly advantageous when a large filter area is needed. The compactness of the disc filter configuration results in 2-3 times more filter area compared with drum filters with same external dimensions.

WMT Moving Bed

Biofilter - (MBB)

The heart of any biofilter is the media and WMT's MBB employs patented Kaldnes polyethylene elements providing 500 m² / m³ effective surface area at 100% fill (152



Kaldnes Filtration Media

ft²/ft³ at 100% fill). WMT's moving bed process produces optimum biological conditions as air circulates and suspends the media in water, feeding the

filter oxygen and driving CO₂ out of solution. The moving bed biofilter is a self-cleaning, low maintenance biofilter requiring no back washing. The compact, simplistic design requires less energy to operate than fluidized sand or bead filters because water gravity flows through the media.

As recently seen in *Aquaculture Magazine's Products Issue '98*, pg. 115:

"WMT recently added an exciting new patented bio-filtration media - Kaldnes. Manufactured of polyethylene these elements density is slightly below that of water.

Kaldnes provides a large protected surface for the biofilm and optimal conditions for bacteria when the elements are circulated in water with air. This patented moving bed process employs the advantages of activated sludge and fixed film processes (RBC's, trickling filters) without being restrained by their disadvantages.

The process, already proven in municipal wastewater treatment, food processing, paper and pulp mills is now available for aquaculture. Some advantages of Kaldnes moving bed process are as follows:

- Self-cleaning, so there is no need for back washing,
- Low energy requirements yielding lower operating costs,
- Strips carbon dioxide under aerobic conditions,
- Compact, occupies a small footprint,
- The media can also be applied to de-nitrification.



The moving bed biofilter is cost effective because it offers high surface area, and optimum conditions in a compact design. Operating costs are lower because less energy is required to fluidize the media. Convert a section of your raceway to biofiltration. WMT can show you how.

The LHO™, Patented Low Head Oxygen Systems

A direct ratio exists between the amount of oxygen in your system's water and the quantity as well as quality of fish you can raise. The Low Head Oxy-generator (LHO) injects oxygen into your system's water without moving parts or electricity. It supersaturates water with oxygen without increasing the total gas pressure of the water. That's why over 250 LHO's are in operation in North America. The LHO might just be the economical "fail safe" solution to low dissolved oxygen levels your system needs.

Designed to fit in raceways and head boxes the original LHO is rectangular and fabricated in stainless steel. The newer round style LHO is more suited to recycle applications and is

fabricated in fiberglass. If you wish to employ the LHO as an oxygen/ozone injection device, WMT can fabricate the LHO with ozone tolerant materials.

Call or visit our web site for an Oxygen Supplementation Data Sheet and WMT can custom design an oxygen injection system for your facility.

**Over 300
installations in the
past 8 years**

Features: •No moving parts •No electricity required •Predicted and guaranteed results

Benefits: •Removes N₂ gas from the water as oxygen is added •Does not increase total gas pressure •Maintaining DO levels enhances fish health and water quality •No mechanical moving parts - no electricity •Minimal capital investment •Simplicity - ease of installation and maintenance



Terry McCarthy with The LHO™

Vaki Fish Counters Fischtechnik Graders

Vaki Fish Counters and Fischtechnik graders often make a great combination. Fischtechnik graders were first developed for use in the manufacturer's own farms. Their machines are now doing an excellent job in more than 500 fish farms in over 40 countries around the world (1988). The versatility of this equipment can be applied aboard a factory ship/trawler at



the time of landing, and at pond side while harvesting your farmed fish. Presently, nine different models of grading machines are

offered. The Grading machines are available for varying size ranges of fish from 1 g up to 10 kg with many combinations to suit large quantities delivered by Fish-Pump, Airlift or low volume hand netting and other methods.



The Fischtechnik FG4 Grader working in unison with the Vaki Bioscanner System 3



Since 1986, Vaki Fish Counters have helped fish farms worldwide. Their simple to use counters gather information on numbers, average weight, size, distribution and the condition of the fish - in other words, fundamental data for the profitable operation of your aquaculture enterprise. You can more accurately plan harvesting and sales. An accurate knowledge of the biomass and average weight also makes it possible to control feeding and drug dosage, and to monitor the health and growth of your fish. Running a Vaki Fish Counter in tandem with

your grader will provide vital information you need to maximize efficient management of your operation.

OxyHandy O² Meter

The OxyHandy is a portable dissolved oxygen meter. It measures both ppm (mg/l) and % Saturation.

The Handy Alpha measures oxygen only. The Handy Beta and Gamma also measure temperature. The Handy Gamma has salinity compensation.

features:

- Galvanic type probe with short response time - ready for immediate use and no need for polarization & stabilization time.
- Measuring Range - 0-50.0 ppm, 0-600% Sat.
- Waterproof - submersible but will float if dropped in the water.
- Excellent probe stability - one daily



The OxyHandy with its convenient belt clip

calibration check is usually more than enough.

- Tough membrane - can be wiped clean

with cloth or paper towel.

- Long life probe - does not need regular renovation, only change membrane when necessary. Probe can be stored dry.
- Easily exchanged membrane - no more fumbling and struggling to replace a membrane.
- Compact and light weight with a detachable clip for use on a belt or clipboard.
- Display can be illuminated (back lit).
- Power Source - standard 9 volt battery, more than 1000 operating hrs.; Lo Bat indicator
- Standard Accessories: belt clip, service kit which includes spare membrane cap, membranes, electrolyte and tool.

AQUA MONITROL CONTROLLERS

The aqua monitrol product line of fully integrated, programmable controllers was developed for water quality applications.



Monitrol Controllers

The controllers can collect analog and digital information from a wide range of sensors such as: Temperature, pH, Conductivity, ORP, Dissolved Oxygen, Flow, Pressure, Level, Motor Current, plus many others. Monitrol Controllers can also provide automatic control of your facility's equipment.

The advanced yet easy-to-use windows software allows a user to monitor operating conditions, configure system parameters, and control or shut down equipment using a personal computer from any remote location.

NEW



WMT's NEW 12-HOUR BELT FEEDER

Finally, A New Quality Source for your 12 Hour Belt Feeders

These Hatching Feed Dispensers have been proven over decades and require no electricity to reliably dispense feed to your fish over a 12 hour period. They are constructed of a sturdy plastic housing and metal feet to provide weather resistant durability. Units include a waterproof clockwork cover. There are 2 sizes available to meet your requirements. These affordable feeders are easy to maintain and operate.

approximate specifications:

WMT's Mini Belt Feeder

Capacity	5 pounds
Length	22 inches
Width	8 inches
Height	6 inches

WMT's Maxi Belt Feeder

Capacity	10 pounds
Length	22 inches
Width	12 inches
Height	6 inches



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RIGHT! ©**

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