



Delivering engineered solutions to feed a hungry world since 1994

w - m - t . c o m

WHO WE ARE

WMT team members are hard-working, experienced professionals, focused on customer needs. We believe strongly in delivering value to our customers and suppliers through integrity and professionalism.

WHAT WE DO

We assemble the right team with the right experience to deliver engineered solutions to meet client needs. From project inception to final commissioning and training we partner with our clients to help them achieve their goals.



D E S I G N

Since 1994 WMT has designed scalable water treatment systems that are simple, energy efficient and easy to operate and maintain. WMT systems truly are “Better by Design”!



B U I L D

The quality inherent in our systems is a combination of our innovative designs and WMT’s use of premium products. Our detailed drawing sets enable contractors worldwide to install our systems with ease.



G R O W

Aquaculture is the fastest growing segment within the agriculture industry and has been for years. At WMT when our clients grow, the industry grows, and we become one step closer to feeding a hungry world.

MARKETS SERVED



Commercial fish farms



Government hatcheries



Universities and Research Entities



Zoo & Aquaria

COMPLETE SYSTEMS



Complete RAS

Recirculating Aquaculture Systems (RAS) provide for the culture of aquatic organisms in systems that allow proper control of appropriate rearing parameters while minimizing the amount of new water required. Reduction of new water allows RAS systems to use fewer natural resources and reduces the risk of exposure to pathogens and diseases. They can be located closer to the markets they serve. RAS systems typically incorporate solids removal, biofiltration, gas management control (CO₂ removal and O₂ injection) along with UV or ozone treatment.



Partial RAS

Partial Recirculating Aquaculture Systems (PRAS) is a RAS system without the biofilter component. The PRAS system, although requiring more new water than a full RAS system (calculated amount to maintain proper ammonia), still provides for a major reduction in water required compared to flow-through systems. PRAS systems generally incorporate solids removal and gas management control (CO₂ removal and O₂ injection) along with UV or ozone.



Intake

Intake systems for aquaculture facilities are extremely important. They are the source of new water upon which most facilities depend on. However, if not designed properly they can be the conduit by which pathogens and disease enter and decimate a hatchery's crop. Most hatcheries are either fed from surface water; a lake, river or stream or with ground water from a well or artesian source. All these sources can be highly variable in quality and heavily dependent on seasonal influences. Design the system to meet the application requirements.



SKID

Skid Filter Systems (SFS) are pre-packaged, plug and play systems that are generally used as treatment packages for smaller systems. SFS are typically found in academic / research facilities, aquariums and hatcheries that have lower densities and filter requirements than those of commercial facilities. Skid systems generally incorporate pumps, sand or bead filters, bag filters, in-line heaters and UV.



Monitoring

Complete monitoring and control systems are parallel complete systems that are symbiotic with RAS, PRAS and other system types. The monitoring and control systems effectively align the overall function of all physical components (filters, pumps) into one seamless operation through integrative monitoring of system parameters and subsequent modification in system operations.



Effluent Polishing

Aquaculture Effluent Polishing uses mechanical filtration to lower suspended solids, BOD, and phosphorus. Various forms of mechanical filtration include microscreens, slow sand filters, high flow sand filtration, and less commonly membrane filtration. Biological filtration is sometimes employed to lower ammonia and soluble phosphorus and nitrogen.

RAS / Integrated Modular Filtration (IMF) Focus



RAS need not be complex. WMT's design incorporates an open flow concept which delivers scalable simplicity with minimal plumbing.

The IMF design process delivers systems that are:

- **Reliable**
- **Energy Efficient**
- **Easy to Operate & Maintain**
- **Scalable**
- **Cost Effective**
- **Easy to Install**

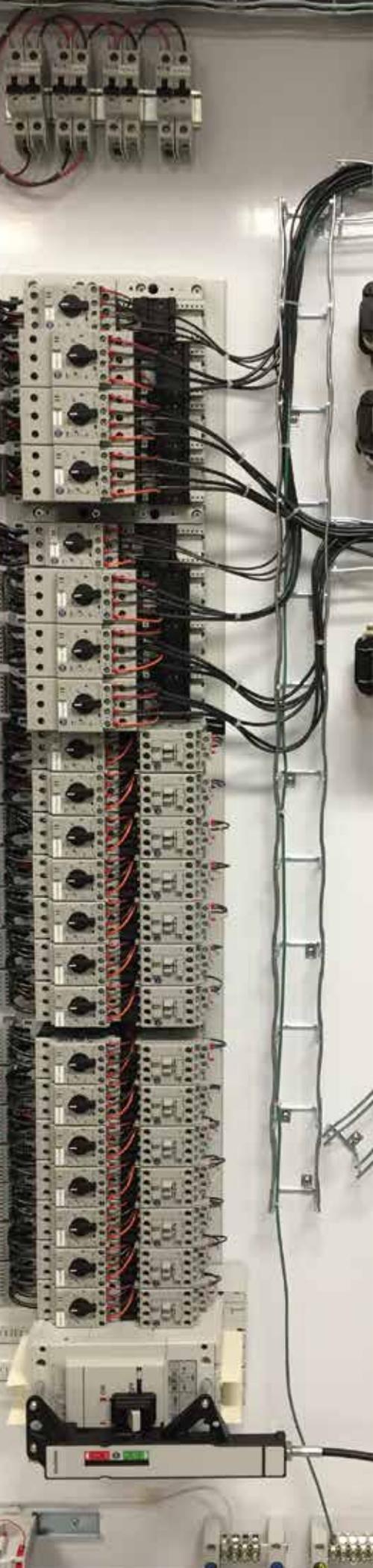


The **Vertical IMF** was developed to deliver compact modular filtration when clients require a smaller footprint which can accommodate taller systems.



The **Horizontal IMF** was developed to deliver a scalable, low head modular filtration solution. The Horizontal IMF can be applied to intake, RAS, or effluent polishing applications.

WMT IMF's are currently operating on 5 continents. References available upon request!



MCAS



Monitoring Control Alarm System. WMT provides a wide range of Monitoring & Control Systems. From basic single point to intricate multi-point parameter systems, we are able to accommodate a wide range of control strategies. WMT offers many different sensors and communication options (Oxyguard PNET, Modbus, radio, WiFi, and cellular). Our motor control panels are designed to operate on relay logic or full integration with PLC (programmable logic control).

WMT is a UL-508A industrial panel shop. UL is an American safety testing organization recognized worldwide that certifies manufactures of industrial controls. By maintaining the highest standards of construction, we are able to ensure our clients get a quality product each and every time.



WMT offers a wide variety of MCAS Systems:

- Complete Process Control Systems (PLC Based).
- Supervisory Control and Data Acquisition (SCADA).
- Hand Held Instruments.
- Truck Monitoring Systems.
- Single Point Water Quality Monitor, Alarm, and Control Systems.

Technology is constantly improving. WMT's open MCAS platform combined with our extensive network of quality suppliers ensures our clients benefit from the latest innovations in monitoring, alarm, and process control.

PREMIUM BRANDS



WMT Products

Since 1994 WMT has developed innovative products for water treatment. Our Oxygen Cones, Radial Flow Settlers (RFS), Gas Management Towers (GMT), and MB3 Media are proprietary to WMT.

WMT thrives on competition which drives us to deliver value products to our customers. We welcome you to experience WMT's exceptional customer service and quality products, which truly are BETTER BY DESIGN.

ULTRAAQUA UV

Ultraaqua is the largest UV supplier to the aquaculture industry. Ultratherm UV Lamp technology is unique to Ultraaqua. Water temperature adversely affects UV-radiation intensity. Ultratherm Lamp Technology ensures sufficient power input and proper thermal insulation to keep amalgam parts above their critical temperature in the following water temperature range (41-95 deg. F)(5-35 deg. C). This is the definition of smart UV technology. This is what sets ULTRAAQUA apart from all the rest.

Oxyguard

Since 1987 OxyGuard has been supplying water quality measuring and monitoring equipment to the aquaculture and other markets worldwide. They are the leading supplier of water quality monitoring equipment to the aquaculture industry. WMT is proud to have represented Oxyguard in the USA since 1994.

Products



Solids Filtration

Drum Filters
Disc Filters
Belt Filters
WMT Radial Flow Settler
Protein Skimmers



Biological Filtration

Moving Bed Bio-Filters
MB3 Moving Bed Media



Gas Management

Gas Management Towers (GMT)
Low Head Oxygenation (LHO)
CO2 Degassing Towers
Oxygen Cones
Ceramic Oxygen Diffusers



Aeration

Blowers
Aero-Tube
Packed Columns



Water Pumps

Axial Flow
Closed Coupled Centrifugal
Vertical Turbine
Dosing
High Pressure Backwash



Tanks

Custom Fiberglass
Fiberglass
HDPE
Mixing Tanks



Monitoring Products

OxyGuard Sensors & Handheld Meters
WAGO PLC Components & Software
LDO Sensors.
Temperature, pH, & Redox Sensors
Monitoring
Systems & accessories



Ozone and UV Disinfection

Ozone Generators
Ozone Contact Skids
Ultraviolet Sterilization



Live Product Handling

Aquascan Fish Counters
Apollo Fish Graders
Matusaka Fish Pumps
De-watering Boxes



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