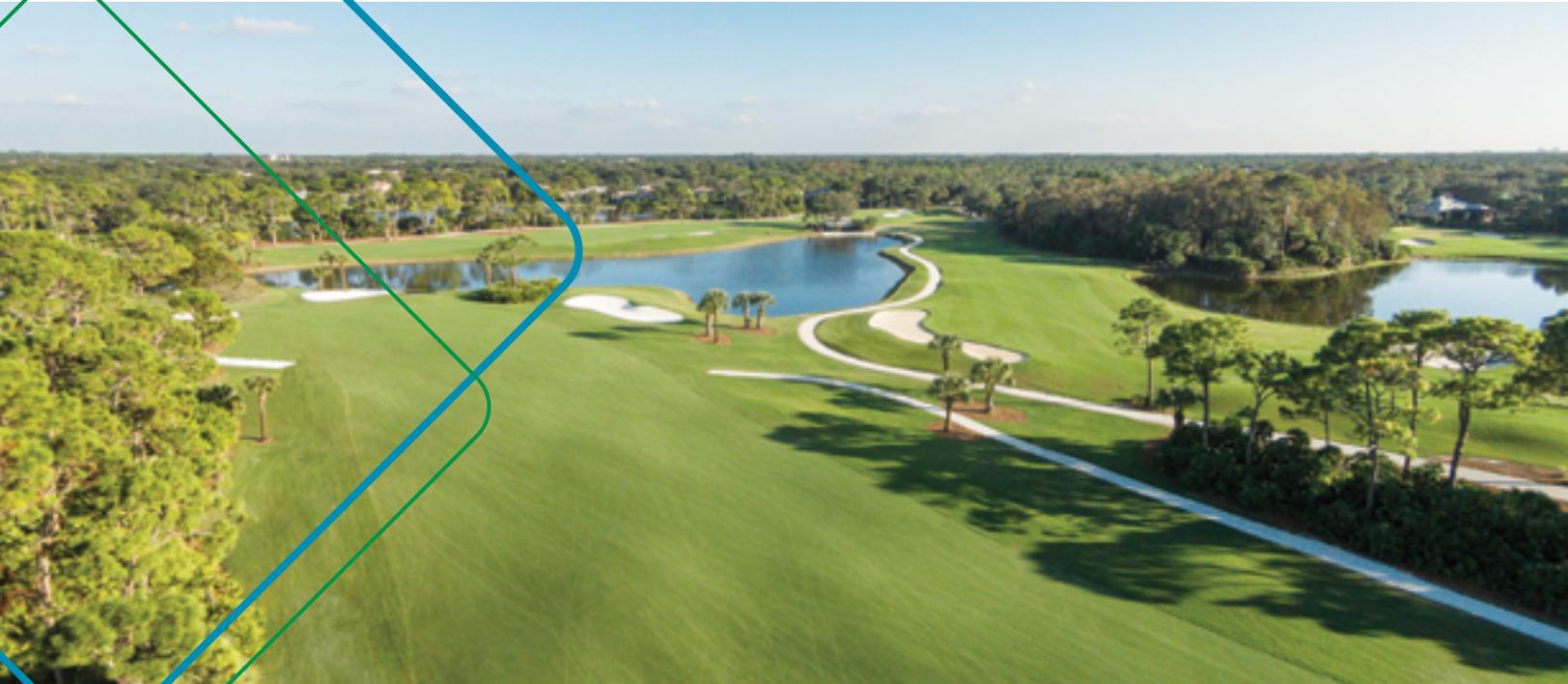




**WATERTRONICS®**



# PUMPING SOLUTIONS FOR GOLF



# EXPERIENCE MATTERS

With over 35 years in the industry and more than 14,000 installations worldwide, Watertronics® understands the many issues affecting turf irrigation today, from design considerations to budget constraints. We have the experience and expertise to design, build and support your pump station—today and for years to come. Our products set the standard for reliability and longevity, including the following differentiators that set us apart:

- ◆ Specification and design assistance tailored to the specific requirements of the designer and end user
- ◆ Control software and logic developed in-house
- ◆ 3D design capabilities
- ◆ Full dynamic flow and operation testing at site-specific conditions prior to shipment to minimize on-site delays
- ◆ UL Listed (CE compliant) Packaged Pump Systems and in-house UL 508A panel shop
- ◆ Arrives as a factory-assembled unit for fast installation
- ◆ Largest support team in the industry for installation, start-up, preventative maintenance, service and part sales through our exclusive Pump Service Network® (PSN)
- ◆ 2 year bumper-to-bumper warranty including parts & labor
- ◆ Built to FCC Part 15 standards
- ◆ Integration with golf central controls



## DYNAMIC TESTING

Offering the industry's most comprehensive pre-ship dynamic test process to ensure a quick installation and trouble-free start-up. This process fine-tunes each system to reduce set-up time and guarantees your pump station will perform exactly as promised.

- ◆ Tested specifically to site conditions prior to shipment
- ◆ Individual pumps tested
- ◆ Full dynamic flow, operation and 7 point vibration testing
- ◆ Performance data certificate shipped with each station
- ◆ 88,000 gallon (330 kilolitre) factory test pit
- ◆ Test capacity up to 20,000 GPM (4500 m<sup>3</sup>/h)
- ◆ 60 and 50 Hertz testing



## SUPERIOR SERVICE

Through our Pump Service Network, Watertronics offers the largest service team in the industry to support pump stations remotely from our factory as well as in the field.

- ◆ Factory-based control lab with remote access capability to any Watertronics station for troubleshooting
- ◆ Internal PSN technical representatives available 24/7
- ◆ 200+ certified independent field technicians nationwide
- ◆ Technical service for installation, start-up and user training
- ◆ Preventative maintenance programs and service repairs
- ◆ Aftermarket part sales and retrofits for all brands of pump station





### VIRTUALVISION 4 CONTROLS

Easy-to-use touchscreen operator interface features full color touchscreen display for monitoring alarms, changing pump sequencing, recording/resetting water usage and more.

### MECHANICAL SEAL

Complete maintenance-free mechanical seal assembly requires no packing adjustments and has permanently lubricated and sealed bearings for perfect shaft alignment. Eliminates water spray from pump house floors which can lead to skid and panel corrosion and reduces shaft wear from overtightened packings. Innovative seal and discharge head design allows for seal installation and removal to be performed without removing motor. Durable design functions in a variety of water qualities.



### ELECTRONIC BUTTERFLY VALVE

Electronic Butterfly Valve (EBV) complements VFD controls by pressure regulating each across-the-line pump, eliminating surges, check valve slam, air entrainment and providing 100% backup pressure regulation in the event of a VFD fault.



Watch in action at [watertronics.com/resources/videos/](http://watertronics.com/resources/videos/)

### DISCHARGE HEAD

Ductile iron VT discharge head provides increased hydraulic efficiency, superior tensile strength and corrosion resistance over cast iron fabricated heads.

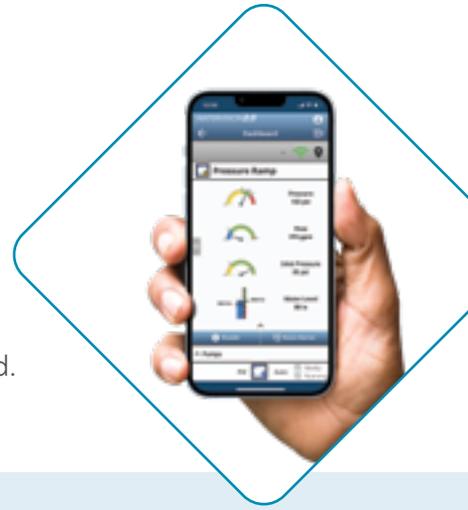
- ① Large window design allows complete service access eliminating the need for costly cranes to remove motor.
- ② Elbow discharge construction provides improved efficiency compared to fabricated T design.
- ③ Dual-port air release system for complete air purge.
- ④ Choice of upgraded mechanical seal or standard packing box.

Retrofit heads available for all station brands.



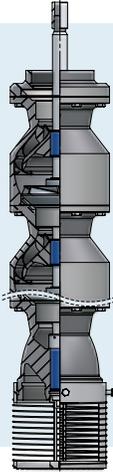
## WATERVISION 2.0

Stay connected and in control of your pump station with WaterVision® 2.0. This next generation advanced cloud telemetry gives users the same control they have from the station to monitor and make full system adjustments like set points, safety resets, and alarm resets from any mobile device. Generate water usage reports and diagnostic charts for better water management. View status of key station equipment in one spot on the WaterVision dashboard.



## VERTICAL TURBINE PUMP

Industry leading vertical turbine pump with ductile iron bowls, 304 stainless steel impellers and glide 400 polymer bearings for superior corrosion resistance, improved dry run times, performance efficiency and longevity in abrasive waters.



## FILTER CONTROL\*

Flow based pressure differential flushing reduces filter clogging under all load conditions.



## PAINTING

Three-step epoxy coat paint process for maximum durability:

- 1 Steel grit blasting
- 2 Two-part epoxy primer
- 3 Polyurethane top coat is applied and baked to assure adhesion

## FUSION BONDED EPOXY COATING\*

NSF61 rated. Superior corrosion protection for the interior piping of the pump station.



## GROWSMART® MAGNETIC FLOW METER\*

2% accuracy for better usage reporting, no moving parts, not effected by debris, local readout with battery pack and space saving installation size.



UNDERSIDE OF SKID

## SKID CONSTRUCTION

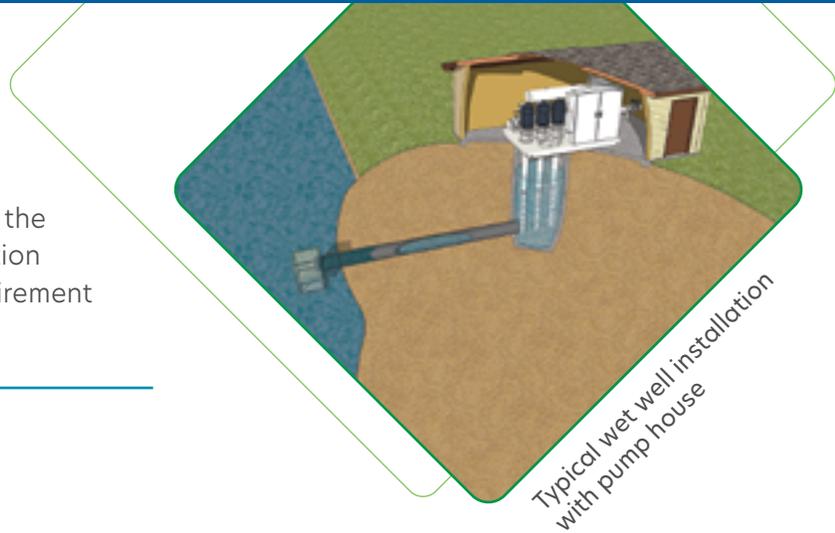
Reinforced 3/8 in. (10mm) formed steel base construction, with rounded seamless edges to resist rust and corrosion. Flat skid surface provides ease of maintenance and reduces water and debris collection.

# WATERTRONICS PUMPING TECHNOLOGY

Our advanced pump logic uses actual pump curve data to provide intelligent sequencing for optimal wire-to-water efficiency. Engineered for continuous operation in challenging environments, Watertronics systems are reliable, rugged, and long-lasting. Your pump station arrives pre-packaged and factory tested, ready for quick installation and start-up. With proven reliability and pumping efficiency, our pumps offer a cost-effective solution and can be fully customized to meet your needs.

## VERTICAL TURBINE

Ideal for pumping from reservoirs, rivers and wells, the vertical turbine (VT) system is a single-source solution that can meet virtually any pressure and flow requirement regardless of water lift or depth.



High-pressure ductile iron discharge heads offer 65,000 PSI (4480 bar) tensile strength with unique dual-port air release system for complete purging of air

Premium, efficient VHS motors

Maintenance-free mechanical seal eliminates water spray

Pumps have polymer bearings, stainless steel impellers and ductile iron bowls for improved flow efficiency and longer life

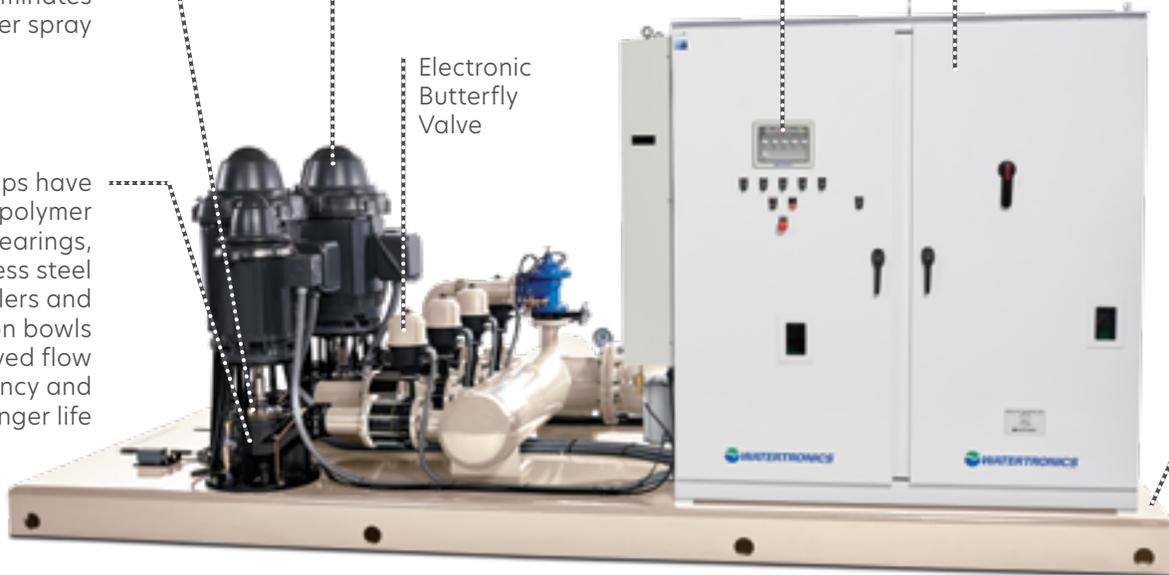
Electronic Butterfly Valve

WaterVision™ Remote Telemetry

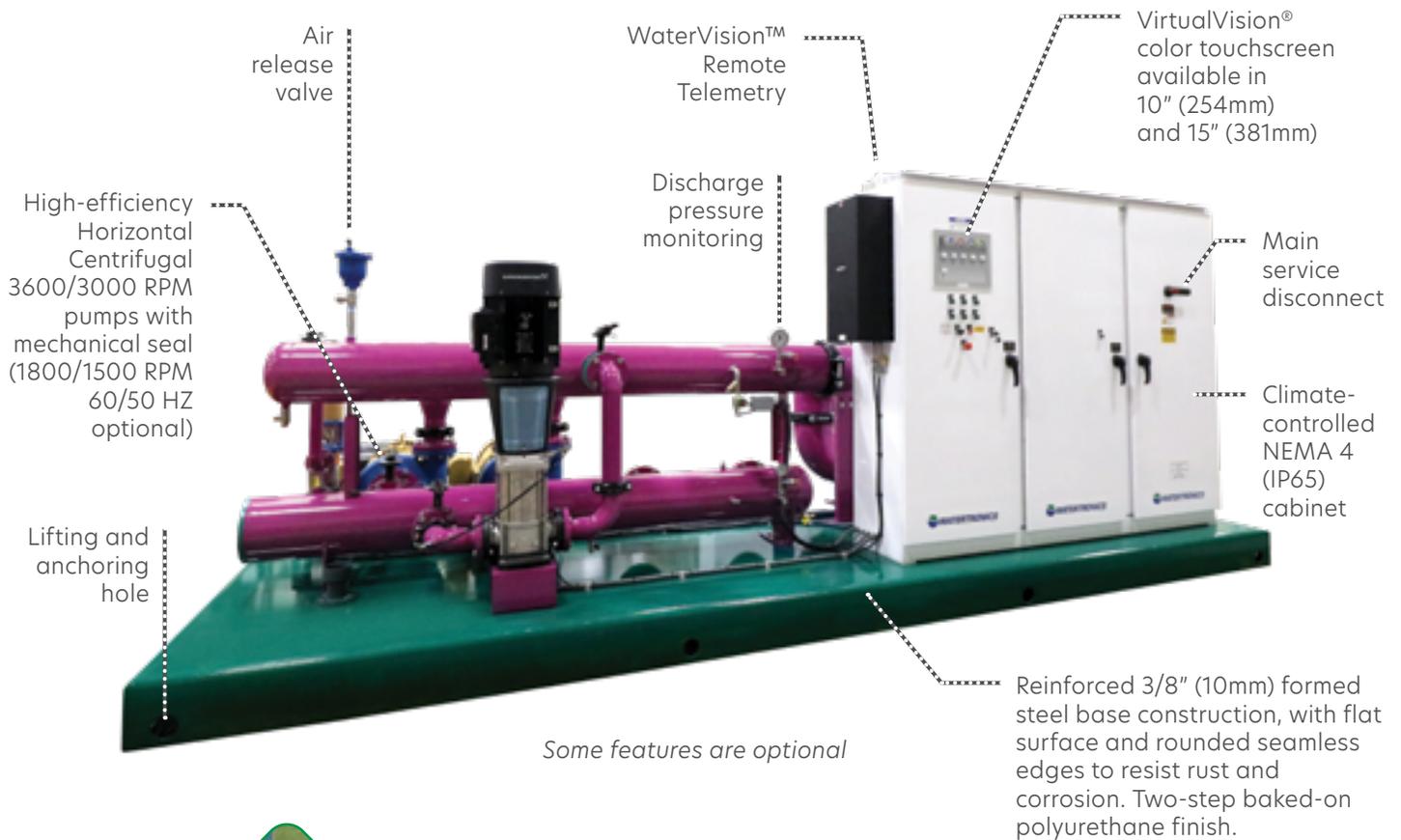
VirtualVision® color touchscreen available in 10" (254mm) and 15" (381mm)

Climate-controlled NEMA 4 (IP65) cabinet

Reinforced 3/8" (10mm) formed steel base construction, with flat surface and rounded seamless edges to resist rust and corrosion. Two-step baked-on polyurethane finish.



*Some features are optional*



## HORIZONTAL CENTRIFUGAL

Ideal for boosting pressurized or flooded suction water sources, the horizontal centrifugal (HC) system is a single-source solution that can meet virtually any pressure and flow requirement regardless of water lift or depth.

## COMPOSITE ENCLOSURES

Composite enclosures provide secure equipment protection in a 100% non-corrosive, sound attenuating and weatherproof structure. Pultruded fiberglass construction provides superior strength and open panel design allows complete accessibility. Ideal solution for pump station houses, chiller units, chemical storage and filtration skids.



## DESIGN BENEFITS OF COMPOSITE ENCLOSURES

- 1 100% non-corrosive, maintenance-free composite material—not susceptible to rust, rot or insect infestation
- 2 Superior impact resistant exterior
- 3 Sound attenuating, natural composite material provides average sound reduction of 11 db
- 4 Arrives fully assembled and generally does not require a building permit
- 5 New construction or retrofit for existing installations



## WATERMAX 9000

WaterMax® self-enclosed pump systems are well-suited for smaller courses, eliminating the need for a pump house.



# CONTROL UPGRADES

## PLC DOOR KIT



Upgrade kits available for any station brand.



PSN Service Provider removes existing door.



PSN Service Provider installs & wires new control panel.



Station upgraded to modern controls.

Upgrades any existing pump station control system. Arrives pre-assembled and designed for easy installation on the existing control cabinet door via the included cut out template. Kit can control one sustain pump and up to five main pumps with multiple options to match existing station features. Available with WaterVision 2.0 cloud telemetry. Choice of grey or white.

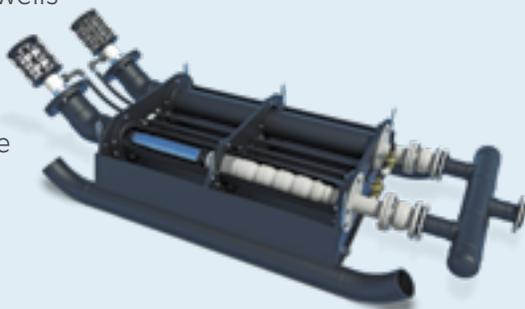
## VFD MOTOR CONTROL PANEL

Upgrades older fixed speed and VFD pump stations. Control panels accommodate one sustain pump and up to seven main pumps with optional equipment accessories, alarms and WaterVision 2.0 cloud telemetry.



## BLACKMAX

BlackMax® submersible pump systems float or rest on the reservoir bottom, do not require wet wells or intake structures, and offer a near invisible and silent underwater operation.



## VFD CONTROL PANEL

With VFD control technology, the VFD pump panel automatically adjusts pump speed to match your irrigation system demand. With a quick startup, simple touchscreen operation and optional WaterVision 2.0 cloud telemetry, it's perfect for small golf applications.



# WE'RE PROUD TO PROVIDE PUMP SYSTEMS TO SOME OF THE WORLD'S FINEST COURSES

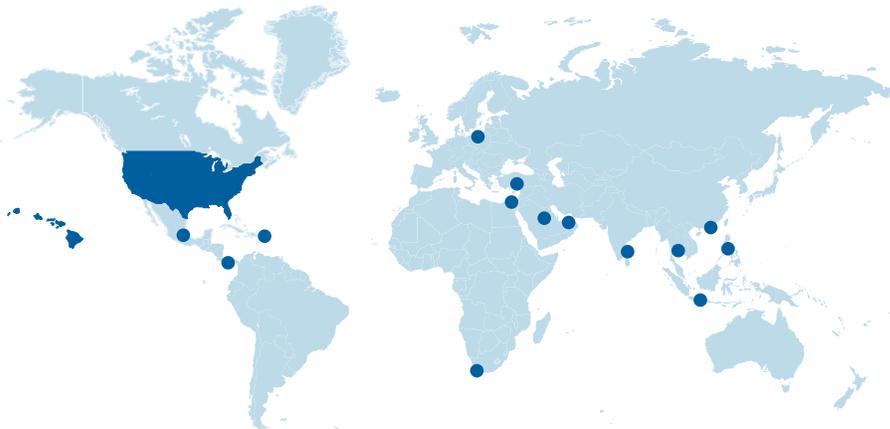
27 Club, China  
Angkor Resort, Cambodia  
Anvaya Cove, Philippines  
Ashgabat Golf Club, Turkmenistan  
Baltusrol Golf Club, NJ  
Bethpage State Park (Black), NY  
Blackjack National, TX  
Boston Golf Club, MA  
Calusa Pines, FL  
Camargo Club, OH  
Castle Pines Golf Club, CO  
Caves Valley, MD  
Chamber Bay, WA  
Cornelia Golf Resort, Turkey  
Dallas National Golf Club, TX  
Erin Hills Golf Course, WI  
Erbil GC, Iraq  
Gozzer Ranch Golf and Lake Club, ID  
Hong Kong Golf Club, China

Interlachen, MN  
Lake Victoria Golf, Uganda  
Lido Lakes, Indonesia  
Los Angeles Country Club, CA  
Merion Golf Course, PA  
Mickelson National Golf Club, Alberta  
Milwaukee Country Club, WI  
Mirabel Golf Club, AZ  
Mission Hills Golf Club, CA  
Mission Hills Resort Hainan, China  
Mission Hills Shenzhen, China  
Myopia Hunt Club, MA  
National G Links of America, NY  
Oak Tree National, OK  
Ocean Course, SC  
Olympic Club, CA  
Pasatiempo, CA  
Pine Valley Golf Club, NJ  
Pinehurst Resort, NC

Prairie Dunes Country Club, KS  
Quaker Ridge Golf Course, NY  
Riviera CC, CA  
Rock Creek Cattle Company, MT  
Shadow Creek, NV  
Sky Resort, Mongolia  
Sleepy Hollow Golf Club, NY  
Somerset Hills GC, NJ  
Southern Hills CC, OK  
Thanh Lanh Serena Valley Resort Golf Club, Vietnam  
The Estancia Club, AZ  
The Golf Course at Black Rock, ID  
The Quarry at La Quinta, CA  
The Roaring Fork Club, CO  
Torrey Pines, CA  
TPC Sawgrass (Players Stadium), FL  
Whistling Straits, WI  
Yas Links Golf Club, Abu Dhabi, UAE



For sales and service information visit [watertronics.com](http://watertronics.com)



[www.watertronics.com](http://www.watertronics.com)



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