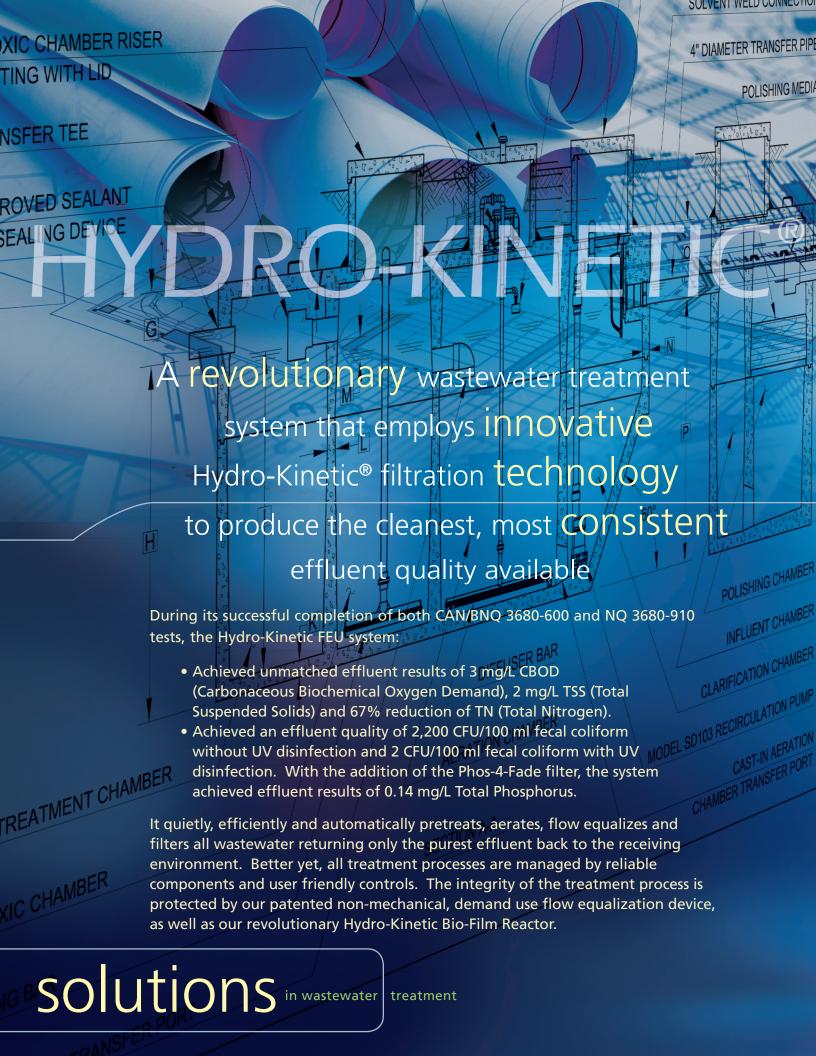
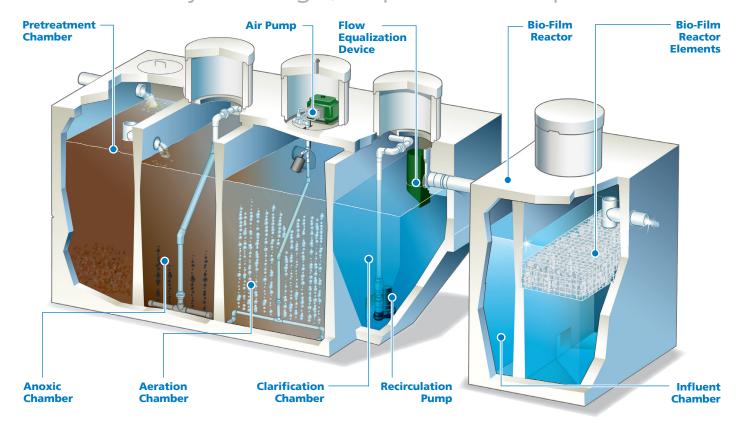
HYDRO-KINETIC® FEU







Revolutionary in design, unparalleled in performance



Pretreatment Chamber

Anaerobic bacteria and gravity precondition the wastewater here to protect the integrity of downstream treatment processes.

Anoxic Chamber

Pretreatment Chamber effluent is mixed with nitrified liquid recirculated from the clarifier in measured doses, via a mixing bar in this chamber. Under carefully controlled conditions, bacteria remove nitrogen by consuming nitrate-bound oxygen during their respiratory process.

Aeration Chamber

Here, safe, living aerobic bacteria convert the wastewater into stable substances. Flow equalization maximizes this biological oxidation and assures proper retention and treatment.

Model A100/A150 Air Pump

Our exclusive Model A100/A150 air pump is a precision engineered electro-mechanical device that has been specifically designed for use in the system. It can be installed below grade or remotely located up to 75 feet from the system.

Clarification Chamber

Flow equalization enhances the settling of biologically active substances inside the Clarification Chamber. Pretreated, aerated wastewater has now been converted to clarified liquids for discharge from this chamber.

Model SD102/SD103 Recirculation Pump

This highly efficient recirculation pump is installed at the bottom of the Clarification Chamber and is used to transfer nitrified liquid back to the Anoxic Chamber for denitrification.

Flow Equalization Device

Controls flow through the treatment process and regulates the velocity of treated effluent that can leave the system, enhancing the efficiency of the attached growth filtration media in the Hydro-Kinetic system.

Bio-Film Reactor

Flow equalized liquid from the clarifier enters the Bio-Film Reactor where it flows downward and is evenly distributed beneath our exclusive Hydro-Kinetic filtration media. The liquid then travels through the proprietary attached growth filtration media where the final treatment takes place.

Precast Concrete Tank

Every tank is constructed of high quality, non-corrosive materials under rigid quality control standards. The tank is reinforced precast concrete manufactured locally by your licensed Norweco distributor.

AT 1500 Ultraviolet Disinfection System

CAPABLE OF MEETING EVEN THE MOST STRINGENT ENVIRONMENTAL REQUIREMENTS, THE MODEL AT 1500 UV DISINFECTION SYSTEM REDUCES BACTERIA LEVELS FROM SECONDARY EFFLUENT TO MEET STRICT WATER QUALITY STANDARDS. THE AT 1500 IS THE ONLY UV TREATMENT SYSTEM LISTED BY UNDERWRITERS LABORATORIES FOR RESIDENTIAL APPLICATIONS.



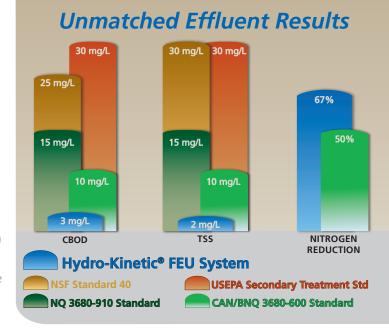
Consider the facts:

- The Hydro-Kinetic FEU system meets or exceeds regulatory standards and is performance certified and listed to BNQ Standards CAN/BNQ 3680-600 and NQ 3680-910. The system achieved an astounding effluent quality of 3 mg/L CBOD, 2 mg/L TSS and 67% reduction of Total Nitrogen.
- The system achieved an effluent quality of 2,200 CFU/100 ml fecal coliform without UV disinfection and 2 CFU/100 ml fecal coliform with UV disinfection. With the addition of the Phos-4-Fade filter, the system achieved effluent results of 0.14 mg/L Total Phosphorus.
- We have engineered the Model A100/A150
 air pump to maximize operational efficiency
 and increase service life. It requires minimal
 electricity to operate and utilizes a standard 115V
 power connection. Multiple air pump mounting
 locations are available.
- The Model SD102/SD103 recirculation pump features a ½ horsepower electric motor that is securely mounted in an oil-filled, watertight, corrosion resistant housing with lubricated ball bearings to assure long life. The recirculation pump features a 2" discharge connection.
- The Hydro-Kinetic Bio-Film Reactor provides final treatment of the wastewater to a near pristine state. As liquid flows up through our proprietary attached growth filtration media, final polishing takes place insuring only the highest quality effluent is safely returned to the environment.

SERVICE PROPERTY.

SERVICE PRO® Model 801P

EVERY SYSTEM COMES WITH THE SERVICE PRO MODEL 801P CONTROL CENTER THAT USES MCD TECHNOLOGY TO PROVIDE MONITORING, COMPLIANCE AND DIAGNOSTIC FUNCTIONS FOR THE TREATMENT SYSTEM. EACH CONTROL CENTER INCLUDES A TIME CLOCK, ALARM LIGHT, RESET BUTTON, POWER SWITCH, POWER LIGHT, PHONE/NETWORK LIGHT, RECIRCULATION PUMP ALARM, AIR PUMP ALARM, HIGH WATER ALARM AND ADDITIONAL AUXILIARY COMPONENT INPUT.



- 70-hour retention in the Hydro-Kinetic system insures adequate exposure to all treatment processes and reduces pumping frequency as compared to smaller capacity systems.
- Our patented non-mechanical flow equalization device guarantees that all incoming wastewater is fully treated, regardless of heavy use periods.
- All flow is equalized an average of 50% at the NSF Standard 40/245 600 GPD (gallons per day) design loading pattern.
- Durable, reliable components are safely installed out-of-sight below grade. No exposed power cords or air lines that are above ground.
- Your local licensed Norweco distributor sells, installs and services your Hydro-Kinetic system with pride. You'll find their name and contact info conveniently posted on the system's control center.



Phos-4-Fade® Phosphorus Removal Tablets

PHOS-4-FADE PHOSPHORUS REMOVAL TABLETS ARE MANUFACTURED SPECIFICALLY TO REDUCE PHOSPHORUS LEVELS IN WASTEWATER, STORMWATER AND PROCESS WATER. MANUFACTURED FROM PURE 93% ALUMINUM SULFATE, PHOS-4-FADE TABLETS DISSOLVE SLOWLY AND CONSISTENTLY TO PROVIDE EFFECTIVE PHOSPHORUS REDUCING POWER. CONVENIENTLY PACKAGED IN A 35 LB. RESEALABLE CONTAINER.









Norweco distributors are located throughout North America and much of the rest of the world. Research, product development, manufacturing, marketing and sales support are conducted inside our offices and factory in Norwalk, Ohio USA. Everyone at Norweco is committed to shaping the future of our industry.

engineering the future

Specify Hydro-Kinetic®

As a designer, choosing to incorporate the Hydro-Kinetic system in your outstanding quality and reliability. At the same time, the reputation of your company will be protected for years to come. Your local Norweco distributor is fully trained to assist you in the design, installation and operation of a Hydro-Kinetic FEU (Flow Equalized Upflow) system.

As a homeowner, getting the highest quality product is essential. The Hydro-Kinetic system arrives to the jobsite complete, including delivery, tank setting, equipment installation, and plant start-up. An annual service level to protect you and your investment. Service contracts are available



comprehensive protection, guaranteed



The Hydro-Kinetic Wastewater Treatment System, Service Pro Control Center, and all Norweco components are warranted against defects in material and workmanship under normal use and service by our comprehensive 2 year Limited

Warranty. A Warranty Registration Card and Owner's Manual are included with purchase. Warranty information is detailed on the back page of the Hydro-Kinetic System Owner's Manual.

Other Products

Singulair® Wastewater Treatment Plants

FOR RESIDENTIAL APPLICATIONS

Modulair® Wastewater Treatment Plants

FOR SEMI-COMMERCIAL APPLICATIONS

Travalair® Wastewater Treatment Plants

FEATURING AUTO SLUDGE AND SKIMMER SYSTEM



Engineering the future of water and wastewater treatment

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The Hydro-Kinetic System components are listed, licensed, and/or certified by each of the following agencies/organizations.















Progress Through Service Since 1906

We engineer, manufacture, install, and maintain advanced water and wastewater treatment technologies for residential properties, communities, and commercial properties that are not connected to sewer lines. Norweco treatment systems are in service all over the world.

Norweco®, Norweco.com®, Singulair®, Modulair®, Travalair®, Singulair Green®, Ribbit Rivet®, Hydro-Kinetic®, Hydro-Kinetic®, Bio-Film Reactor®, Evenair®, Lift-Rail®, Microsonic®, Bio-Dynamic®, Bio-Sanitizer®, Bio-Neutralizer®, Bio-Kinetic®, Bio-Static®, Bio-Gem®, Bio-Max®, Bio-Perc®, Blue Crystal®, Phos-4-Fade®, Enviro-C®, ClearCheck®, ChemCheck®, Tri-Max®, Hydra-Max®, Service Pro®, MCD®, TNT®, WASP®, Grease Buster® and "BUSTER" logo are all registered trademarks of Norwalk Wastewater Equipment Company, Inc.