



Corodex Trading

FOR EVERYTHING
WATER RELATED



**Water and Wastewater Treatment
Components and Systems**



Company Profile

Since 1974, Corodex Trading offers total water solutions and has dramatically grown as the Middle East's pioneer and the United Arab Emirate's largest company offering everything water related.

Corodex Trading provides total water solutions by delivering superior services that meet our customer's needs through a wide range of water treatment systems, equipment, and chemicals. We also deliver innovative wastewater solutions offering sewerage equipment and environmental systems. In addition, Corodex Trading specializes in odor treatment solutions providing advanced technologies that serve emission sources. Our solutions also extend to providing municipal equipment sewer cleaners - jetting units and recyclers.

We take pride in delivering exemplary customer satisfaction and unsurpassed innovative solutions to the region for more than 40 years.

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Filtration and Softening Systems

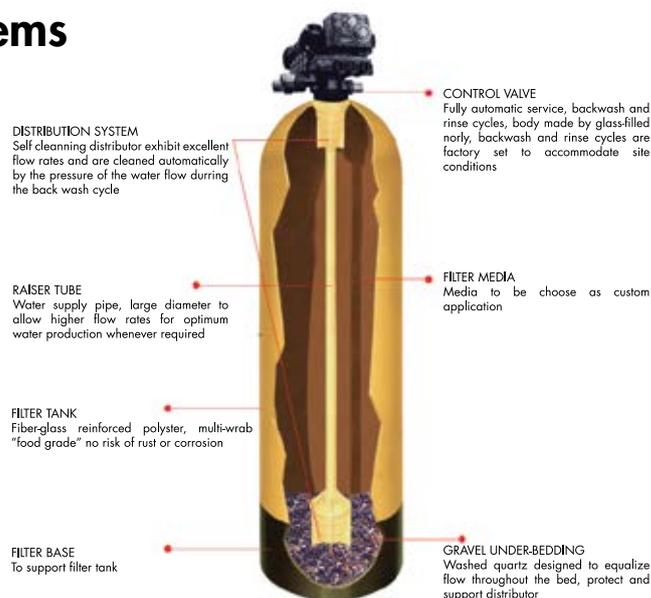


Automatic Filtration Systems

- Sand (Turbidity) Filters
- Carbon Filters
- Iron Removal Filters
- Multi-Media Filters

Filtration units used for removal of:

- Turbidity
- Suspended Solids
- Taste and odor for domestic, commercial and industrial water purposes



Corodex Filters

Corodex Water Softeners

A water softener reduces the calcium or magnesium ion concentration in hard water. These "hardness ions" cause three major kinds of problems. The metal ions react with soaps and calcium sensitive detergents, hindering their ability to lather properly and forming an unsightly precipitate - the familiar scum or "bathtub ring".

Presence of "hardness ions" also inhibits the cleaning effect of detergent formulations. More seriously, calcium and magnesium carbonates tend to adhere to the surfaces of pipes and heat exchanger surfaces. The resulting scale buildup can restrict water flow in pipes.

- Strong cation exchange resins, certified for drinking water (NSF)



Water Softeners

Corodex Deionizers

Deionization: a chemical process that uses specially manufactured ion exchange resins, which exchange hydrogen and hydroxide ions for dissolved minerals and then recombine to form deionized water.

- Residential, industrial and commercial application

UV System



Viqua is the world's largest manufacturer of residential and light commercial Ultra Violet water disinfection systems, providing safe water without the use of chemicals.

- Designed and equipped to inactivate harmful microorganisms in water flows up to 290 gpm



Viqua UV System

High Flow Series

This line of UV water purification systems has been specifically designed and equipped to inactivate microorganisms in water flows up to 290 US gpm.



UV Series for High Flow



* Systems tested and certified by NSF International against NSF/ANSI Standard 55 for disinfection performance, Class A. Minimum dose of 40 mJ/cm²

Legionella Management System - Copper Silver Ionization



NECON is a German leading manufacturer of copper silver ionization systems (legionella management system) and a leading supplier in the field of chemical-free water disinfection and innovative filtration technology.

- Electro physical water treatment that is redefined, ready for production and patented
- Water treatment without chlorine and chemicals
- Alternative to chemical methods of water disinfection
- Chlorine-free water purification operates by the method of water ionization
- Copper and silver ions eliminate bacteria, microbes and algae

The result is the purified pool water conforming to the quality of potable water. 100% chlorine-free and 100% chemical-free.

Application areas include:

- Swimming pools
- Domestic water
- Cooling water systems
- Firefighting water tanks
- Plant strengthening

Features:

- Automatic control panel
- Metal Cast, Stainless Steel 316, or plastic chambers
- Available in BMS connections



**NECON Comprehensive
Technology**



NEC 5010



**Mini-Combi Electrode
C21035**

Reverse Osmosis Systems



Reverse Osmosis Systems

Corodex offers customized residential and commercial Reverse Osmosis systems:

- Desalination of seawater
- Brackish water for drinking purposes
- Food and beverage processing
- Purification of home drinking water
- Industrial process water
- Energy recovery process



**BW RO Plant
40000 GPD**



**SW RO Plant
8000 GPD**



Ecosoft is a multinational company specializing in treatment of water for industrial, municipal, residential, and household consumers.

Reverse Osmosis system designed for demineralization of water, the system is a compact, functionally complete module. Equipment system, instrumentation, piping, regulating valves are mounted on metal frame.

Commercial or Residential RO's starting from under sink 5 stage, under sink 6 stage, RO 300GPD up to 6000 GPD.



**Ecosoft Robust
RO (60 LPH)**



**Standard Ecosoft RO System
50 Gallon / Day**



MO 6000 LPD



MO 24000 LPD

Sea Water Reverse Osmosis



Spectra Watermakers manufacture the finest quality, most efficient, quietest and easiest to use water makers in the world. You have a sizable investment in your yacht so you want equipment that works reliably when you need it.

Spectra Watermakers manufactures seawater RO systems:

- Energy efficient
- Reliable
- Quietest watermakers in the world
- Simple application and easy to use
- Full range of watermakers from 6 gallons/day to 10,000 gallons/day



Spectra WaterMaker



Solar Powered WaterMaker



Components



CAT PUMPS has been a leader selling precision triplex reciprocating pumps and systems for more than forty years.

CAT PUMPS are triplex, positive displacement, reciprocating, high pressure pumps.

CAT offers:

- Triplex piston pumps
- Triplex plunger pumps

A wide range of pump options are available that can meet various requirements:

- Flow: 0.13 to 240 gpm (0.49 to 908 lpm)
- Pressure: 100 to 10,000 psi (6.9 to 689 bar)

Benefits:

- The most cost-effective design for achieving high efficiency and low pulsation
- Custom engineering of industrial pumping systems to meet any application and installation requirements
- Each system includes all required safety and pressure regulation valves to assure optimum performance and safety
- Pumping liquids at high temperatures

Applications such as:

- Vehicle Cleaning
- Pressure Washing
- Misting/Cooling/Fogging
- Reverse Osmosis/Desalination
- Commercial Cleaning
- Hydro-excavation
- Government and Military
- Agriculture
- Food Processing
- Manufacturing
- Oil and Gas



CAT PUMPS



CAT PUMP Full Set

CECO Fybroc Division

Fybroc is a world leader in design and production of reinforced fiberglass pumps for corrosive and other difficult liquids such as:

- Corrosive acids
- Bleach
- Caustics
- Salt water
- Wastewater
- Available in many different configurations, sizes, capacities, and materials

Advantages over exotic metal pumps normally required for Lower cost, Lighter weight, Dramatically improved service for lifetime.



Fiberglass reinforced plastic (FRP) centrifugal pumps for harsh environment

MILTON ROY EUROPE

Milton Roy manufactures water and wastewater treatment products for municipal and industrial markets including metering pumps, plunger pumps, agitators, dosing controllers.

Liquid Metronics Incorporated (LMI) is the leading manufacturer of chemical metering pumps, controllers and accessories.

Electronic and motor-driven metering pumps and controllers for simple chemical addition, to complete systems to control conductivity, pH and ORP.

DOSAPACK® metering packages:

Compact and self-contained, metering packages are ideal for preparing, storing and injecting chemical solutions.



Dosing Pumps



DOSAPACK

Components



Filternox currently provide filtration solutions and services in more than 50 different countries with more than 5000 filters at hundreds of locations, with exports amounting to 75% of our total sales.

Filternox® Automatic Self Cleaning Filters, developed by Turkish engineers and produced by Antel, includes:

- A complete stainless steel structure
- High filtration area
- Long-lived filter elements
- Automatic back flushing system
- Easy installation and maintenance
- Significant decrease in operating costs
- Increased efficiency



Filternox Self Cleaning Filter

Application Areas

Well Water:

- Effective filtration of well water
- Reduces operating costs
- Eliminates down time for maintenance
- Preventing equipment damage caused by high dirt loads

Irrigation:

- Protects irrigation and fertilizing systems from all kinds of particles
- Assured years of continued operation without the clogging of drippers, and sprinklers and such
- Patented technology
- Perfect water purification solution for golf courses, agriculture and gardening

Surface Water, Ultra-Filtration and Reverse Osmosis:

- Coarse and fine automatic filtration for lake and river water purification
- Patented new technology
- High dirt removal efficiency with two consecutive stages of advanced vacuum nozzle cleaning system
- Complete prevention of consequent loss of efficiency in heat exchangers, nozzles, ion exchange systems, seals, membranes and other sensitive equipment

Cooling Tower and HVAC:

- Possible use of sidestream or full flow applications
- Avoid system maintenance shut downs
- Decrease of chemical consumption for water conditioning



Cartridge Filters

Corodex offers:

- Spun, yarn, pleated, grooved, CTO, UDF, and resin type filter cartridges
- Our filters are available in different sizes and micron rating to cover a wide range of uses



Cartridge Filters



Harmsco Inc., manufacturer of liquid filtration solutions, offers products up to 0.375 micron and 200 m³/hr in single units such as:

- Water filters
- Residential filtration solutions
- Industrial cartridges
- Cartridge Housings
- Whole house filter solutions
- Harmsco® Hurricane® and Waterbetter® filter series
- Potable, municipal, ground, process, surface, storm water, and wastewater filtration solutions custom engineered and manufactured



HARMSCO Filtration Products



WATTS is a global provider of plumbing, heating, and water quality solutions for residential, industrial, municipal, and commercial settings.

Big Bubba offers non metallic filter housings for high flow rates at a low cost offering proprietary cartridge filters.

Big Bubba filters are ideal for a wide range of applications including:

- Sea water applications due to non-corrosive construction
- Commercial filtration
- Industrial filtration
- Residential filtration



Big Bubba Cartridge Filters

Membrane Housing and Filter Tanks



Wave Cyber is a leading manufacturer of water filtration and reverse osmosis components.

Membrane Pressure Vessels

Wave Cyber pressure vessels are available in: 150, 300, 450, 600 and 1200 psi models with field proven fiber reinforced plastic (FRP) construction.



Membrane Pressure Vessels

Pressure Tanks

Pressure tanks are made of high performance composite material with FRP filament winding manufactured with a complete seamless molding technology:

- Residential and commercial use
- All thread inlet made from 30% glass filled PP provides higher strength, temperature and pressure limits versus glass filled PE
- Reinforced composites are one third the weight of steel tanks
- All pressure tanks are 100% corrosion resistant



Pressure Tanks





Filter Media

Corodex concentrates on the improvement of water quality by means of filtration through granular filter media.

A complete range of filter media is available for different raw water types:

- Inert filter media for filtration of suspended solids
- Inorganic Filter Media for ion exchange and absorption



Filter Media



Ecosoft is a multinational company specializing in treatment of water for industrial, municipal, residential, and household consumers.

ECOMIX

ECOMIX filtration material for water problem with ion compounds.

ECOMIX purifies water from:

- Hardness salts
- Iron and manganese compounds
- Organic color
- Ammonia



Fresh HumiSorb Beads



HumiSorb Beads after Service

- HumiSorb is a proprietary sorption material for removal of organic impurities
- Organic compounds are removed by the mechanism of hydrophobic and electrostatic interactions

Ion Exchange Resin - PUROLITE

Purolite's complete product line for ion exchange offers:

- Gels
- Macroporous
- Acrylics
- Fine Mesh Nuclear
- Chelation Resins



Purolite Resin

Water Treatment Chemicals

AKZO - Salt

Efficiency of water softening solutions depends largely on the quality of the salt used. Compacted salt is necessary to produce a brine solution for regenerating the ion exchanger, which forms the heart of the softener.

AKZO NOBEL is one of the world's leading salt specialists supplying high quality products for applications in:

- Food processing
- Residential requirements
- Water softening
- Agriculture
- Oil field applications



AKZO - Salt



CABOT NORIT is a global leader in the research, development, manufacturing and sale of high-grade activated carbon used in a growing range of environmental, health, safety and industrial applications. Activated carbon is used for the purification of a wide range of substances in all kinds of industries.

Media

NORIT offers:

- 150 different types of products to match any conceivable application
- Activated carbon reactivation
- Carbon change out services
- Granular and powdered carbon systems and equipment

Serving a wide range of industries such as:

- Gas & Air Treatment / Odor Control
- Catalyst
- Mining
- Industrial Petro Chemical SND
- O.R.L & C.R.S
- Food and Beverage
- Oil & Gas
- Pharmaceutical
- Potable Water
- Chemicals
- Wastewater



Extruded Activated Carbon



Powdered Activated Carbon



Granular Activated Carbon

Water Treatment Chemicals

SNF FLOERGER®

SNF FLOERGER is today's leading producer of flocculants for water treatment with unrivalled expertise in the field of flocculants.

Flocculants clarify water by combining with suspended solids, in such a way as to enable these particles to be separated quickly and easily from the water.

SNF Superabsorbents: Absorbs to more than 500 times its weight, in the case of super absorbents for agricultural applications.

SNF Thickeners: Thickeners alter the viscosity and texture of products and used in: shampoos, creams, cosmetics, textile industry and enhanced oil recovery

SNF also offers:

- Coagulants
- Dispersants
- Deodorants
- Bleaching agents
- Antifoaming agents
- Oil absorbents



Flocculation



Disinfection Systems

HYDROTEC
commercial watertreatment solutions

Hydrotec is the UK's leading company in the design and manufacture of water treatment products for the building services industry.

HydroDOS® Chlorine Dioxide Generation

- L8 approved method of bacterial control for domestic potable water systems
- Suitable for the treatment of cooling towers or other applications where the prevention of bacterial growth is required
- A dispersive technology: moves through the entire system, killing both free swimming (planktonic) and biofilm forming (sessile) bacteria



HydroDOS® Chlorine Dioxide Generation



HydroDOS® Unit





Screens and Separation Equipment

We offer innovative solutions for the whole sector of wastewater process, clarification process, and sludge treatment.

Corodex sewerage equipment includes:

- Screening
- Clarifiers
- Conveying
- Sludge dewatering
- Screw compactor
- Grit removal systems

Industries we serve:

- Animal breeding
- Breweries
- Chemical
- Construction material
- Dairies
- Disposal
- Food
- Sewerage Pumping Station
- Sewerage Treatment Plants

Septage Receiving Station:

The septage receiving station screens and processes sewage discharge from tankers. The system ensures cleaner handling of sewage truck waste by screening and separating unwanted solids such as debris, rocks, rags, plastics and heavier solids.

Combined treatment systems:

A range of combined treatment systems that integrate screening and grit separation with the option of fat, oil and grease (FOG) removal, all within a single package unit.



Inclined Shafted Miniscreen



Compact Combi Unit Minitop



Double Motor Rotary



Spiral Sieve Intank



Septage Receiving Station

Screens and Separation Equipment

Sludgeless: Cost-effective sludge processing:

- High quality combined machines to receive and pre-treat any kind of effluent
- Used for separation of suspended solids from the liquid, washing and compaction, dewatering of the screenings, separation and dewatering of the sand

Penstock:

Penstocks and sluice gates are used for water supply, wastewater treatment, sewer systems and flood protection.



Slide Penstock



Franklin Miler is a US manufacturer of grinding and shredding equipment to suit entire spectrum of application including sewage, industrial, marine, food and beverage. Product line includes:

- Grinders
- Shredders
- Crushers



Grinders

These units play a critical role in wastewater treatment, septage receiving, industrial process and waste, pulp and paper, agricultural facilities and food processing.

Recycling System



RGF is committed to helping industry comply with strict EPA regulations. Founded in 1985, we pioneered the development of water recycling systems. Since then, we have continuously expanded our ability to meet the world's water, air and food environmental needs, now and through the 21st Century.

RGF Recycling System:

- Closed loop wash water recycling systems
- Utilize 40 technologies to develop application specific systems
- Removes contaminants while leaving in the dissolved cleaning agent
- Re-use of wash water
- Recycling wash water and cleaning agent
- Less cost

Intended for washing applications such as:

- Automated car washes
- Rental car companies
- City transportation
- Military bases
- Truck and tractor repair shops
- Bus companies
- AG/machinery companies
- Construction companies
- Equipment rental companies
- Mining materials companies



RGF Advanced Oil Water Separator System



Wash Master - High Volume Car Wash Water Recycle System



Thermo Oxidizer



Wash Master - Very High Duty Wash Water Recycle System

Air Purification



Odor Control Unit

Odor control technologies can be grouped into five distinct categories:

- Chemical Absorption: acid and caustic wet scrubbing
- Biological Oxidation: bio-filtration, bio-scrubbing, bio trickling filtration
- Adsorption: activated carbon and other adsorptive medias
- A combination of the above systems are usually used for biological oxidation and chemical scrubbing
- UV photoionization

Emission sources that require odor control:

- Pump stations
- Wet well
- Sludge dewatering
- Manholes
- Air valve chambers
- Sludge trans-shipment operations from silo into trucks



Chemical Scrubber



Activated Carbon OCU



Biological OCU

Odor Control and Abatement



Yara is a leading chemical company that converts energy and nitrogen from the air into essential products for farmers and industrial customers.

The Nutriox process:

- Treatment process assuring protection and optimal dosing

Analysing your system:

- Initial on-site problem assessments
- Specific dosing and control strategy is established

Setting up a trial phase:

- Pre-dose monitoring phase
- Trial equipment installed to determine the right amount of solution
- Efficiency of the trials monitored by Yara H₂S experts

Selecting optimal equipment:

- Equipment best suited for your installation

Monitoring the process:

- A blend that corresponds to your needs is automatically injected where and when it is required, together with the right quantity of specific bacteria
- IDA controller will be linked to our web based eNutriox data viewing service to monitor dosage from a distance and check the results at any time

Sustained prevention:

- Nutriox creates perfect conditions enhancing nitrate reducing bacteria population and depressing Sulphate reducing bacteria thus preventing septic conditions
- Your monitoring record will demonstrate the absence of H₂S, whilst in the previously undosed period there were high levels of H₂S in solution

Continuous evaluation and optimisation:

- Our experts are regularly present by your side to ensure that all of the Nutriox system is running smoothly



Nutriox Dosing System



Full service odor control Nutriox provides a comprehensive package of services to ensure lasting protection

Municipal Equipment Sewer Cleaners - Jetting Units and Recyclers



Aquatech is a global leader in quality combination jetting and vacuum systems. Hi-Vac offers world class sales and technical support including aftermarket support services.

Aquatech Sewer Cleaning Trucks:

- User-friendly
- Tough enough to tackle any application
- Jet/Vac combination units
- High-pressure water jetting combined with a high-flow vacuum source
- Clean out pipes and sewers and then vacuum up the material, which returns and maintains normal sewer flow

Aquatech offers two different design options:

B-Series:

- Reel mounted on the rear of the truck
- Reduces heat and noise for the operator
- Ergonomically beneficial

F-Series:

- More conventional front-mounted design



AQUATECH



Combination JET / VAC Truck Mounted Systems

Municipal Equipment



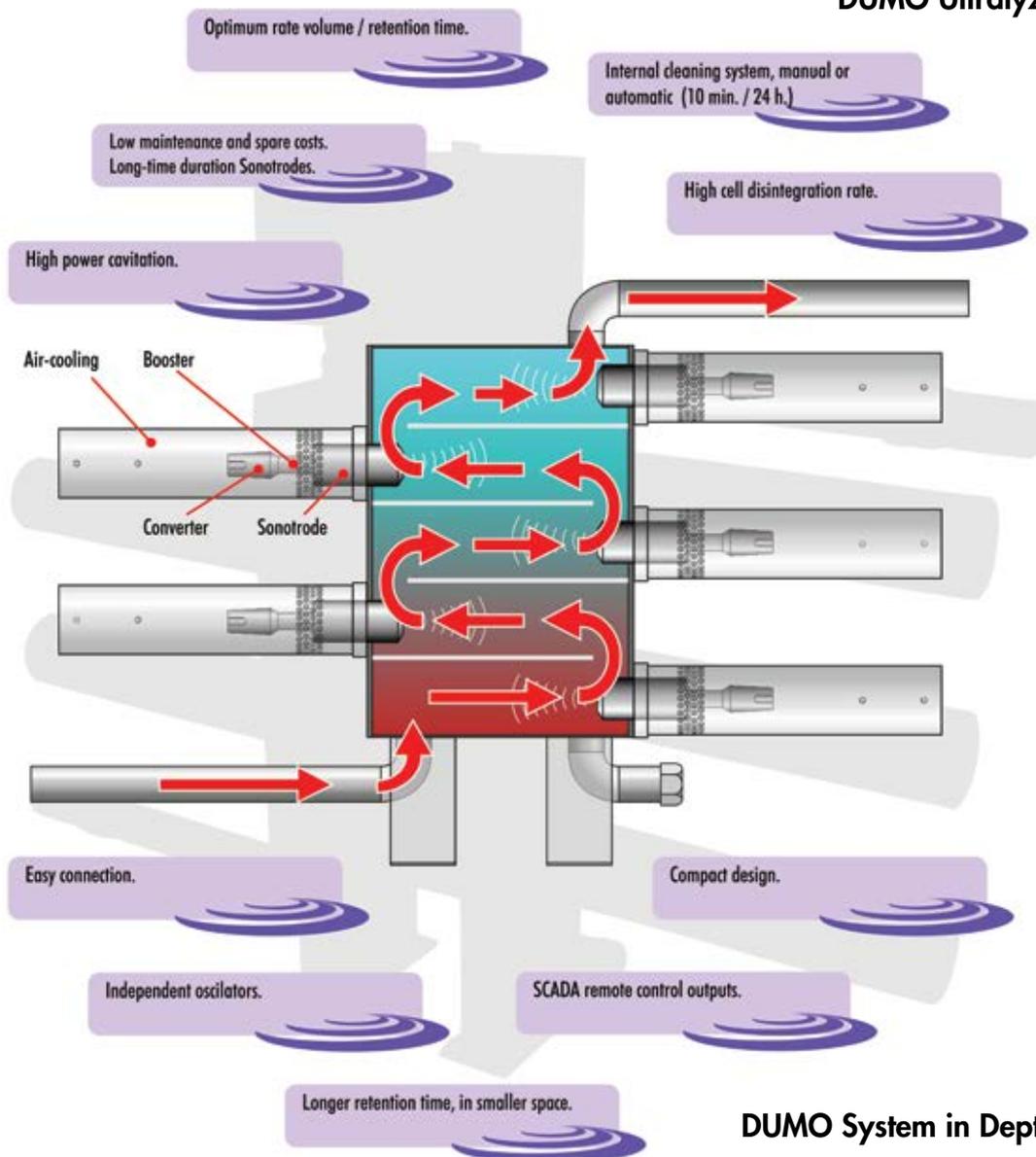
ULTRAWAVES GmbH develops and markets innovative high-power ultrasound systems for water and environmental engineering. Apart from the disintegration of biomass in wastewater treatment and biogas plants, the systems are also used in industrial applications.

The DUMO Ultralyzer System serves wastewater treatment plants using an ultrasound application.

- Improving the anaerobic digestion
- Increased degradation of organic matter
- Increased retention time in digestion
- Increased production of biogas
- Improved dewatering of final sludge
- Decreased final waste sludge



DUMO Ultralyzer



DUMO System in Depth



IPEX designs and manufactures the largest, most recognized and diverse range of integrated piping products – everything professionals need to manage the full spectrum of today’s municipal, industrial, commercial and residential challenges.

Vortex Flow Insert for Odor and Corrosion Control

Patented Spiral Flow Design:

- Eliminates odorous and corrosive gases by using the wastewater’s own flow energy to suppress the turbulence which releases noxious gases
- The spiral flow creates a downdraft which traps airborne gases and forces air into the sewage flow to oxidize odorous gases

Reduced Corrosion Extends Sewer Life:

Hydrogen sulfide (H₂S) emissions from force main discharges can literally eat through a concrete drop manhole. By oxidizing dissolved H₂S, a Vortex Flow Insert in a municipal sewer drop can significantly reduce concrete and metal corrosion, extending sewer life and saving the municipality money.

Reduces Odor Treatment Costs:

By increasing dissolved oxygen levels in wastewater and oxidizing sulfides and other odorous compounds, the use of a Vortex Flow Insert in a drop structure reduces the need for costly chemical injection, high-maintenance biofilters and air scrubbers.

Improves Wastewater Quality:

Because a Vortex drop structure reduces the odorous and corrosive elements in the flow, a Vortex Flow Insert, installed upstream of a treatment plant, can actually improve wastewater quality prior to treatment, reducing treatment costs at sewage plants.

Reduced Maintenance Costs:

The use of a Vortex drop structure eliminates the corrosion of concrete and metal sewer components, dramatically reducing municipal maintenance costs of manholes and sewers.



Vortex Flow Installation





Concorde - Corodex Group

Fire Protection, Water and Wastewater Treatment and Environmental Specialists

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