### WASTEWATER TREATMENT

# Passion and expertise build the world's leading wastewater treatment plants





# When there's passion every step of the way

What is it that makes us walk that extra mile to understand what is needed to achieve operational excellence at each individual treatment plant? We believe its passion.

Our passion drives us to analyze both real and possible challenges in order to best overcome them. We have been setting the benchmark for innovation, performance and reliability within aeration, mixing, pumping, disinfection, oxidation, clarification and filtration. And we deliver substantial energy savings, reduced ownership costs, reliable operations and minimum maintenance. It's no wonder we are behind the world's leading wastewater plants.

## The expertise to think how you work

A function, to us, is a specific, vital task that a particular product needs to perform at each particular stage of the treatment process. We consider a treatment plant to be the sum total of a number of inter-relating functions.

Our expertise enables us to set functions together in the most effective way possible to maximize the operating efficiency of your treatment plant. This sets us apart from the rest and ensures you are achieving optimum performance with the lowest possible lifecycle costs. Working closely with our customers, we learn their work processes and the issues that drive their business.

This is how we ensure smooth, cost-effective operations, energy savings and trouble-free maintenance in a treatment plant. And peace of mind for you.

### LEADING THE WAY WITH PASSION AND EXPERTISE

- Over 100 years of hands-on experience.
- Powerful R&D.
- Highly advanced laboratories.
- Cutting edge systems engineering.
- Systems simulation utilizing computational fluid dynamics (CFD).
- Model testing and on-site pilot testing capabilities.
- Professional guidance for achieving the lowest possible installation, operation and service costs.
- Innovative, reliable global service network.

Visit www.treatment.xyleminc.com for more information.

## Functions that set the standard in wastewater treatment

Work with us and you will understand the difference that is a result of deep-rooted passion and expertise. It is this expertise that allows us to set the right functions together in for example an oxidation ditch or Sequencing Batch Reactor, so they work perfectly to deliver results that enables our customers to set standards in the business they compete in.

#### PUMPING

This involves the handling of every type of wastewater and sludge. It also deals with various capacities and solids contents and combinations of these, as well as the balancing of robust performance with energy efficiency.

#### MIXING

The mixer configuration is actually more critical than the product itself. Expertise in the positioning and fluid dynamics of the mixer is the defining factor in maximizing efficiency.

#### AERATION

Aeration systems constitute more than half of the energy costs at a typical treatment plant. We understand the sheer complexity of balancing the right amount of oxygen needed in the process, as well as the interaction between mixing and aeration in oxidation ditches.

#### CLARIFICATION

An efficient clarification function increases the efficiency of solids removal to allow downstream wastewater treatment equipment to operate more efficiently due to lower loading, as well as increasing the efficiency of sludge handling equipment and reducing the cost of sludge processing.

#### FILTRATION

A complete operating filter system regulated to achieve maximum filtration efficiency at the longest possible filtration cycles is essential to removing suspended solids and nutrients such as nitrate and/or phosphorus and organic compounds.

#### DISINFECTION

UV light presents the most cost effective disinfection of wastewater. The UV light is generated using special lamps at a certain wavelength and when in direct contact with the contaminated wastewater, safely inactivates microorganisms without producing any byproducts.

#### OXIDATION

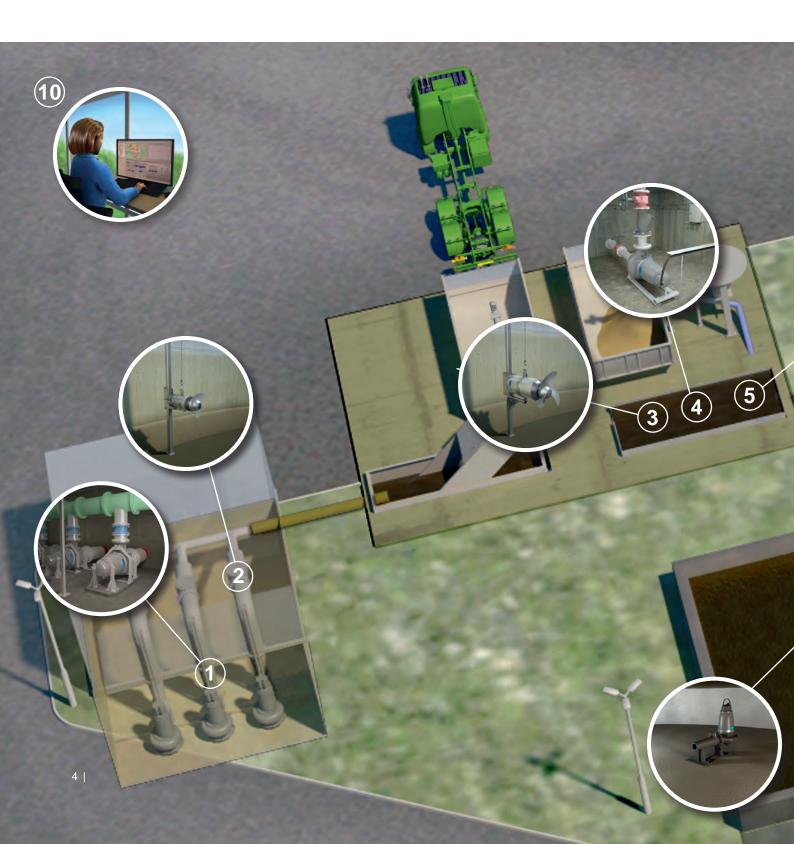
Ozone gas is used to degrade and remove harmful micropollutants as well as odor from wastewater. The entire process is efficient, eco-friendly and safe. The treated water can be either reused or discharged

## More information about our offerings is available on the following pages:

- 1 Primary and preliminary wastewater treatment .... page 4-5
- 2 Secondary and tertiary wastewater treatment .... page 6-7
- 3 Sludge wastewater treatment.....page 8-9

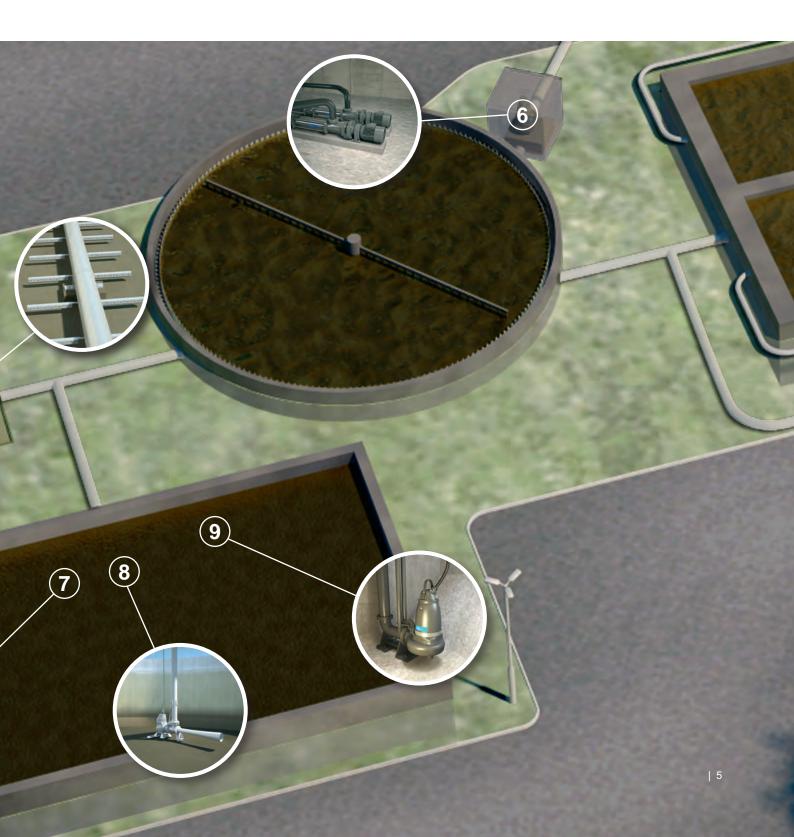


# Primary and preliminary wastewater treatment



### (1) Feeding and control of incoming wastewater

- 2 Prevention of sedimentation in pump station
- (3) Mixing in grit chamber to maintain suspension and grit separation
- (4) Withdrawal of grit from grit chamber
- 5 Aerated flotation in the grit chamber to remove fats, oils and solids
- 6 Primary sludge withdrawal from primary sedimentation
- Retention basin mixing of resuspend solids
- 8 Aeration to reduce odor in retention basin
- (9) Retention basin pumping
- (10) Monitoring and control systems for efficient treatment plant operation



# Secondary and tertiary wastewater treatment



- Mixing in secondary treatment. Homogenization in anoxic and anaerobic stages of the process.
- (2) Aeration in oxic stage of the process for BODremoval and nitrification
- 3 Aeration using blowers
- (4) Complete standardized ozone system for odor removal or sludge disintegration
- 5 Recirculation of mixed liquor from oxic zone to anoxic zone for denitrification
- 6 Biological treatment (SBR), complete biological system with all treatment steps within a single tank
- Return activated sludge pumping
- 8 Sludge removal from rectangular secondary clarifier
- Solids and nutrient removal clarification
- (1) Gravity, granular filtration for solids and nutrient removal
- (1) Withdrawal of waste activated sludge to sludge treatment (1
- (12) Inactivation of harmful microorganisms by UV disinfection
- (13) The treated wastewater is discharged to the recipient
- Degradation and removal of harmful micropollutants from wastewater streams using ozone
- (1)(2)(3) Combined in oxidation ditches

(10 9 8

## Sludge wastewater treatment



1 Monitoring and control systems for efficient treatment plant operation

(2)(3) Aeration of sludge for odor control and homogenization

- (4) Thickened sludge pumping from gravity thickening
- 5 Pumping of thickened sludge from mechanical thickener
- 6 Homogenization and blending of incoming raw (undigested) sludge in digester
- (7) Feeding and control of raw sludge from digester
- 8 Sludge storage mixing
- Feeding and control of sludge to dewatering unit
- Pumping of dewatered sludge to sludge disposal



#### PUMPING

#### FLYGT N 3000



TYPE OF HYDRAULIC: centrifugal radial flow TYPE OF IMPELLER: N self cleaning SIZE OF OUTLET FLANGE: DN 80 - DN 400 MAX. FLOW: 4,000 m<sup>3</sup>/h MAX. HEAD: 120 m MOTOR PROTECTION: IP 68, 3 thermal switches + leakage sensor FLS MAX. LIQUID TEMPERATURE: 70°C

MOTOR SEALING: 2 mechanical seals with Spin out<sup>™</sup> Pump also available in Atex EEx d II B MATERIALS: CASING: GG25 IMPELLER: GG25, G-X260Cr27 (HCR 60) OUTER SEAL: WCCr/WCCr, RSIC / RSIC COOLING JACKET: Steel painted, AISI 316

#### FLYGT F 3000, CHOPPER



TYPE OF HYDRAULIC: centrifugal radial flow TYPE OF IMPELLER: N impeller with chopper insert ring SIZE OF OUTLET FLANGE: DN50 - DN 150 MAX. FLOW: 500 m<sup>3</sup>/h MAX. HEAD: 70 m MOTOR PROTECTION: IP 68, 3 thermal switches + leakage sensor FLS MAX. LIQUID TEMPERATURE: 70°C MOTOR SEALING: 2 mechanical seals with Spin out™ Pump also available in Atex EEx d II B

#### MATERIALS:

CASING: GG25 IMPELLER: G-X260Cr27 (HCR 60) OUTER SEAL: WCCr/WCCr COOLING JACKET: Steel painted, AISI 316

#### FLYGT D 3000



TYPE OF HYDRAULIC: centrifugal radial flow TYPE OF IMPELLER: Vortex SIZE OF OUTLET FLANGE: DN 50 - DN 100 MAX. FLOW: 240 m<sup>3</sup>/h MAX. HEAD: 105 m MOTOR PROTECTION: IP 68, thermostats included in all pumps, leakage sensors as option MAX. LIQUID TEMPERATURE: 40°C, higher on request MOTOR SEALING: 2 mechanical seals Pump also available in Atex EEx d II B (3080 in d I) MATERIALS: CASING: GG25

IMPELLER: GG25, AISI 316 OUTER SEAL: RSiC/ RSiC

#### FLYGT DY 8000



TYPE OF HYDRAULIC: centrifugal radial flow TYPE OF IMPELLER: Vortex SIZE OF OUTLET FLANGE: DN80 - DN200 OPEN THROUGHLET: 65-150 mm MAX. FLOW: 468 m<sup>3</sup>/h MAX. HEAD: 78 m MOTOR PROTECTION: More than IP55, thermostats or PTC thermistors MAX. LIQUID TEMPERATURE: 70°C MOTOR SEALING: 2 mechanical seals

#### MATERIALS:

CASING: GG25, AISI316 IMPELLER: GG25, AISI 316 OUTER SEAL: RSIC/RSIC

#### FLYGT PL/N 7000



TYPE OF HYDRAULIC: Propeller (vertical) TYPE OF PROPELLER: PL/N: self cleaning N-hydraulic DISCHARGE PIPE DIAMETER: 800 - 1,400 mm MAX. FLOW: 22,000 m<sup>3</sup>/h MAX. HEAD: 12 m

MOTOR PROTECTION: IP 68, 3 thermal switches + leakage sensor FLS MAX. LIQUID TEMPERATURE: 70°C MOTOR SEALING: 2 mechanical seals Pump also available in Atex EEx d II B

#### MATERIALS:

CASING: GG25 PROPELLER: AlBr, AISI 316 OUTER SEAL: WCCr/WCCr, RSIC / RSIC COOLING JACKET: Steel painted, AISI 316

#### PUMPING cont.

#### FLYGT PP 4600



#### FLYGT COMPACT



TYPE OF HYDRAULIC: Propeller (vertical) TYPE OF PROPELLER: 2 or 3 blade clog free design DISCHARGE: DN 400-DN 800 MAX. FLOW: 7,000 m<sup>3</sup>/h MAX. HEAD: 2 m PUMP SPEED (50HZ): 365-1,350 rpm

PROGRESSIVE CAVITY PUMP

CAPACITY: up to 225 m<sup>3</sup>/h

TEMPERATURE: up to 100°C

VISCOSITY: 300.000 mPas

PRESSURE: up to 24 bar

POWER: 1,5-30,0KW MOTOR: insulated acc. class H MOTOR PROTECTION: IP 68, 3 thermal switches. Leakage sensor optional MAX. LIQUID TEMPERATURE: 90°C MOTOR SEALING: 2 mechanical seals Available in Atex EEx d II B

DS: 12% and up to 15% with a special square inlet DESIGN: block construction alternatively with bearing house

#### MATERIALS:

MATERIALS:

AISI316

RSIC / RSIC

MOTOR COVER: AISI, 304,

OUTER SEAL: WCCr/WCCr,

PROPELLER: AISI316,

G-X260Cr27, Duplex

GG25 or AISI316, with a choice of rotor and stator materials to suit individual applications e.g. hard chrome plated rotor or natural rubber stator SEALING: mechanical or gland packing

#### FLYGT WIDETHROAT



PROGRESSIVE CAVITY PUMP CAPACITY: 215 m<sup>3</sup>/h PRESSURE: 48 bar TEMPERATURE: up to 100°C VISCOSITY: up to 1,000,000 cP

#### DS: more than 40% can be handled when fitted either with the integral bridge breakers or large augers DESIGN: block construction alternatively with bearing house

#### MATERIALS:

CASING: GG25 or AISI316 Rotor and stator according to the applications. SEALING: mechanical or gland packing

#### MIXING

#### FLYGT SR 4600



TYPE OF MIXER: Submersible TYPE OF PROPELLER: 2 or 3 blade clog free design DIAMETER OF PROPELLER: 210-766 mm PROPELLER SPEED (50HZ): 365-1350 rpm RATED THRUST: from 100 to 6,400 N RATED POWER AT 50 HZ: 0.75 to 25 KW MOTOR PROTECTION: IP 68, 3 thermal switches, leakage sensor optional MAX. LIQUID TEMPERATURE: 90°C MOTOR SEALING: 2 mechanical seals Available in Atex EEx d II B

#### MATERIALS:

MOTOR COVER: AISI304, AISI316 PROPELLER: AISI316, G-X260Cr27, Duplex OUTER SEAL: WCCr/WCCr, RSIC / RSIC

#### FLYGT SR 4400



TYPE OF MIXER: Submersible TYPE OF PROPELLER: 2 blade clog free design DIAMETER OF PROPELLER: 1.4-2.5m TRANSMISSION: gear box PROPELLER SPEED (50HZ): 17-54 rpm RATED THRUST: from 450 to 4,700N RATED POWER AT 50 HZ: 0.9 to 5.7 KW MOTOR PROTECTION: IP 68, 3 thermal switches, leakage sensor optional MAX. LIQUID TEMPERATURE: 40°C (60°)C MOTOR SEALING: 2 mechanical seals Available in Atex EEx d II B

#### MATERIALS:

MOTOR COVER: GG25 PROPELLER: PU/Fiber glass OUTER SEAL: WCCr/WCCr,

FLYGT JET MIXER



The Flygt jet mixer is designed to create a strong bulk flow. The mixer's significant components are the nozzle, the ejector pipe and the pump. The pump generates a primary flow that is delivered to the tank via the nozzle. As this flow enters the ejector pipe, a secondary flow is induced from the surrounding liquid. This results in a mixing effect near the nozzle. Furthermore the induced flow adds to the primary flow and creates the thrust being imparted to the tank. This thrust creates the bulk flow velocity within the tank.

#### SANITAIRE FINE BUBBLE DIFFUSER



TYPE: 7" or 9" high efficiency Silver Series II membrane DIFFUSER AIR CAPACITY: 0,85 to 6,5 Nm<sup>3</sup>/h DESIGN: Optimised slit pattern for best oxygen transfer capacity, Integrated O-ring and effective centre check valve

#### MATERIALS:

SILVER SERIES II MEMBRANE: High quality EPDM for reduced head loss and increased oxygen transfer HOLDER: PVC or PP PIPES: UPVC or CPVC with 2% TiO<sub>2</sub> for UV resistance

#### OTHER VERSIONS:

Ceramic membrane discs, EPDM membrane tubes, Low pressure silver series II membranes POWER EFFICIENCY: 2.5-6 kg O<sub>2</sub>/kWh

#### SANITAIRE COARSE BUBBLE DIFFUSER



Sanitaire stainless steel wide band coarse-bubble diffusers are mainly used for aeration in sludge-related processes, including aerobic sludge digestion, sludge holding, flow equalization and channel aeration.

The units are available in alternative lengths, 12" and 24".

The system is manufactured in corrosion-resistant stainless steel (AISI304L or 316L) for structural strength and long life.

POWER EFFICIENCY: 0.7 - 2 kg O<sub>2</sub>/kWh

#### **ZS+ POSITIVE DISPLACEMENT BLOWER**



The ZS+ series is a direct-driven high-efficiency, low noise, low pulsation, positive displacement blower. The blower is delivered with integrated VSD (Variable Speed Drive).

The ZS+ series blowers are built as complete units, and include an intelligent control unit that is ready to plug and play. This provides extremely reliable 100% oil free air

CAPACITY: 200 - 4,600 m<sup>3</sup>/h

#### ZB VIRIABLE HIGH SPEED TURBO BLOWER



The ZB VSD (Variable Speed Drive) is a turbo blower. Through the integration of revolutionary technologies, the ZB VSD offers unparallel savings in life cycle costs thanks to its very high efficiency and very low maintenance costs. In addition, it has a small footprint and extremely low noise levels.

The machines are delivered with

- the following, as standard: magnetic bearings
- air inlet system including filter
- controller and electrical
- installation acoustic enclosure and silencers
- check valve
- blow-off valve
- variable speed drive system

#### CAPACITY: 2,500 - 6,000 m<sup>3</sup>/h

The HA series single-stage air compressor can handle flows from 8,200 to 85,000 m<sup>3</sup>/hr (4,800 to 50,000 cfm) at discharge pressures up to 2 bar

#### ZL TRI LOBE BLOWER



The ZL series is a standard roots type, lobe blower featuring relatively low noise, low vibration, low pulsation, delivery in a complete, ready-to-run package.

The ZL comes in a range of 20 sizes for intake volumes of 25 to 10,000 m<sup>3</sup>/hr at over pressures of up to 1,000 mbar, depending on the blower size.

#### AERATION cont.

#### FLYGT JET AERATOR



DESIGN: submersible self aspirating jet aerator TYPE: JA112, JA117, JA217 and JA317 CAPACITY: 60 kg O2/h at 7,5 meter water depth NUMBER OF EJECTORS: 1, 2 or 3 EJECTOR TYPES: 4812 (55 mm nozzle) 4817 (95 mm nozzle) N-PUMPS: 3085, 3102, 3127, 3153, 3171 and 3202

#### MATERIALS:

PUMPS: see N-pump product data EJECTOR HOUSING: cast iron or stainless steel OUTLET PIPES: stainless steel SUCTION AND CONNECTION PIPES: stainless steel or galvanized steel POWER EFFICIENCY: 0.5-1.2 kg O<sub>2</sub>/kWh

#### **BIOLOGICAL TREATMENT**

#### INTERMITTENT CYCLE EXTENDED AERATION (ICEAS)



The ICEAS process is a complete treatment system providing cost effective treatment solution for the most demanding effluent qualities. A flexible, simple and energy efficient process that includes fine bubble diffusers, blowers, decanters, controls, pumps, mixers and complete customized process design. Flows range from 25,000 GPD (1.2 l/s) to over 150 MGD (6,600 l/s)

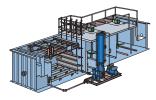
#### **CLARIFICATION**

#### LEOPOLD CLARI-DAF® SYSTEM (CONCRETE TANK)



A concrete tank system that is built on-site. The concrete tank will be poured for the rapid mix, flocculators, dispersion and reaction zones, sludge collection channel, and clarified water channel. Xylem would provide engineering design, the rapid mixer, flocculators with VFDs, effluent laterals, mechanical sludge removal, and complete recycle system with pumps, valves, air compressor, saturator tank and dispersion header, as well as instruments and controls. Can be engineered to specific design requirements for mixing time, loading rate, or recycle rate. Provided for systems that require flow above 2 MGD (300 m<sup>3</sup>/hr).

#### LEOPOLD CLARI-DAF® (STEEL TANK)



A steel tank system to be installed on a concrete pad with the recycle system shipped separately and connected on site. The total system is comprised of a compartmented tank, rapid mix, flocculators, dispersion and reaction zones, effluent laterals, mechanical sludge removal, and complete recycle system with pumps, valves, air compressor, saturator tank and dispersion header, as well as instruments and controls. Can be engineered to specific design requirements for mixing

time, loading, or recycle rate.

Available in standardized design and flow capacity below 2 MGD

and flow capacity below 2 MGD (300 m<sup>3</sup>/hr).

LEOPOLD CLARI-VAC® SYSTEM



A floating sludge collector installed in rectangular wastewater secondary clarifiers. It operates on the principle of siphon where the collection header vacuums the solids that have been naturally settled on the tank floor. The sludge is siphoned into a separate trough where it is pumped to waste or returned to the activated sludge biological process. There are no moving parts under water. All parts except the drive are nonferrous metals to minimize corrosion potential.

#### FILTRATION

#### LEOPOLD ELIMI-NITE GRAVITY FILTRATION



The Leopold elimi-NITE<sup>®</sup> denitrification system harnesses the advantages of deep bed, mono-media filters to effectively and efficiently remove nitrogen in wastewater effluent. In addition to nitrogen the elimi-NITE<sup>®</sup> denitrification system can remove suspended solids. Methanol, or another carbon source, is added to the filter influent to provide an organic substrate for the denitrifying microbiological culture in the filter media.

The culture metabolizes the nitrate, changing it to nitrogen gas that becomes embedded in

the filter bed as bubbles which are then released into the atmosphere.

A complete backwash cycle cleans the media, removing influent suspended solids trapped during the normal filter cycle and some of the microbiology.

#### LEOPOLD FILTER SYSTEM FOR WASTEWATER TERTIARY FILTRATION



The system consists of underdrains, air distribution pipe, flume, backwash water troughs and FilterWorx<sup>®</sup> control systems combined with the correct filter media.

The underdrain collects filtered water from the filter during the

filter run and introduces water and air during backwashing and air scour.

Air distribution pipe delivers air to the underdrain for air scour during the backwash sequence. Made of durable fiberglassreinforced plastic (FRP), Leopold sizes its wash troughs for the carrying requirement of the filter design.

#### LEOPOLD TYPE S\* FAMILY OF UNDERDRAIN



Underdrain is used to support media during filtration and to uniformly distribute backwash air and water when the filtration media needs to be cleaned.

Leopold has designed a water recovery channel into its Type S<sup>®</sup> technology underdrain to help ensure uniform and continuous airflow from all of the top deck orifices.

The water recovery channel is designed to allow water to re-enter the underdrain to equalize the low-pressure areas. The results of Type S technology are:

- Airflow range is 1 to 5 scfm/sf
- Low water maldistribution less than 5 percent (total)

#### OUR RANGE OF DISINFECTION PRODUCTS

#### WEDECO LBX



The compact UV system with a hydraulically optimized, closed reactor chamber, provides cost-effective and maximum disinfection performance of up to 1,335 m<sup>3</sup>/h wastewater per unit. It makes wastewater reusable for agricultural purposes or as service water at the treatment plant.

The UV light is generated by efficient WEDECO Spektrotherm low pressure high intensitiy lamps. Calibrated UV sensors acc. to DVGW / ÖNORM monitor the UV intensity to ensure optimized life time of the lamps. The system is delivered with sampling valves at both inlet and outlet flanges. The Wedeco LBX device has a fully automatic wiping system for cleaning of the lamps.

With the UV device comes a control system that makes sure that the UV dose is constant irrespective of changes in water quality or flow.

#### WEDECO TAK 55



The easily-installed UV TAK system ensures safe and chemical-free operations with excellent disinfection results. Installed in the final effluent open channels, the modular design of the TAK allows for practically unlimited flow capacities. It makes wastewater reusable for agricultural purposes or for discharge into the environment.

With the UV comes a control system that make sure the UV dose is constant irrespective of changes in water quality or flow. The system is equipped with a fully automatic wiping system for cleaning of the lamps. The lamps are of low pressure high intensity design. The sealed and ready calibrated UV sensor is automatically cleaned to make sure the dose is always correct.

#### OXIDATION

#### WEDECO SMO/SMA



#### WEDECO PDA/PDO



Wedeco SMO/SMA is a compact. fully assembled ozone system in the production range of 200-20,000 g O<sub>3</sub>/h for efficient and reliable ozone generation. All ozone generators are fitted with patented EFFIZON<sup>®</sup>HP

electrodes providing efficient and reliable generation of high concentration ozone from oxygen or dry air feed gas. Typical production turndown is from . 1% to 100%. Reduced energy costs and less maintenance in

connection with extremely high plant availability are some of the considerable benefits for operators of WEDECO SMO/SMA ozone systems.

#### The customized Wedeco PDA/ PDO ozone system delivers reliable

and efficient production of large quantities of ozone from 15,3 kg  $O_3/h$  to more than 250 kg  $O_3/h$ . Two key features separate

WEDECO ozone generators from the others: The exclusive use of EFFIZON<sup>®</sup> HP electrode/dielectric technology and the variable frequency technology. These features combined are the basis for an ozone generator with

unmatched flexibility and low specific power consumptions. All in a compact package that minimizes space requirements and associated facility construction costs.

#### MONITORING AND CONTROL

#### FLYGT AquaView SCADA SYSTEM



#### **APX 761 FLYGT CONTROLLER**

2.2

Acquisition) system enables remote control of connected stations or plants within a network providing a complete overview of the operational status.

(Supervisory Control And Data

Flygt AquaView SCADA

All data automatically present the information as trends, graphs and reports. It provides extensive alarm functionality so that, should a problem occur, all necessary information will be available in precise detail and on time.

Flygt AquaView provides cost-effective, efficient, convenient and practical plant operations.



The advanced Flygt APX 761 controller is exclusively designed for fluid handling. The modular design and platform let your plant expand free from care. Built-in functions such as flow measurement, capacity- and

energy calculation can be uniquely programmed. Advanced alarm handling provides immediate attention and time-stamped data

#### FLYGT pumpSmart® VARIABLE PUMP DRIVES



The algorithm within PumpSmart<sup>®</sup> is designed with mind on the pump hydraulic, protect the pump, optimize the performance, reduce pump ware, increase lifetime, reduce

downtime, cut energy costs, reduce clogging and installation costs.

It can operate two variables at the same time, which is excellent in treatment applications.

PumpSmart<sup>®</sup> patented internal SmartFlow PID control reduces the need of external flow meter.  $\mathsf{PumpSmart}^* \, \mathsf{communicates} \, \mathsf{with}$ most SCADA or DCS systems.

#### AFTER SALES SERVICES



Service is a life-long commitment that goes hand in hand with quality products. It means more than only installing your equipment correctly from the start. It also involves supplying spare parts quickly and efficiently, and providing dependable

maintenance. It also means doing everything necessary to ensure the efficient operation of your installation or plant. Not just avoiding breakdowns, but ensuring continuous, troublefree operation. Our service professionals are always close at

hand, no matter where you are in the world. They have unique training and know-how about our products and applications. And they are backed by our R&D teams, production resources and supply chain.

Visit www.flgroup.uz for more information.

## Xylem ['zīləm]

- 1) The tissue in plants that brings water upward from the roots
- 2) A leading global water technology company

We're 12,000 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xyleminc.com







We offer:

- Engineering and technical solutions of Xylem for water supply, wastewater and water purification systems, which are leading in the world.

 A full range of pumps and equipment for such applications as supplying drinking or untreated water, diversion of industrial wastewater, sewage, drainage, monitoring installations and operation, primary and secondary biological treatment, filtration and disinfection.

- Technical support and maintenance of pumps. Our local service center provides comprehensive services and support for safe, efficient and reliable operation. You can rely on us to ensure trouble-free operation and minimal downtime. We will quickly respond and give a professional answer to your questions, as well as provide high-quality service using original spare parts.

#### **Free Line Group LLC**

Official distributor and service-partner of Xylem Inc. in Uzbekistan, Tajikistan, Kyrgyzstan and Turkmenistan

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