Xylem solutions for the industry

WATER PUMPING AND INDUSTRIAL EFFLUENT TREATMENT SYSTEMS

xylem
Let's Solve Water

A unique offer ranging from raw water intake to...

Water is the key element for the operation of many industries and their industrial processes. At a production site, Xylem products and solutions play a role at all points along the water cycle.

A world leader in pumping and water treatment systems Xylem designs and manufactures solutions for a variety of applications, including:

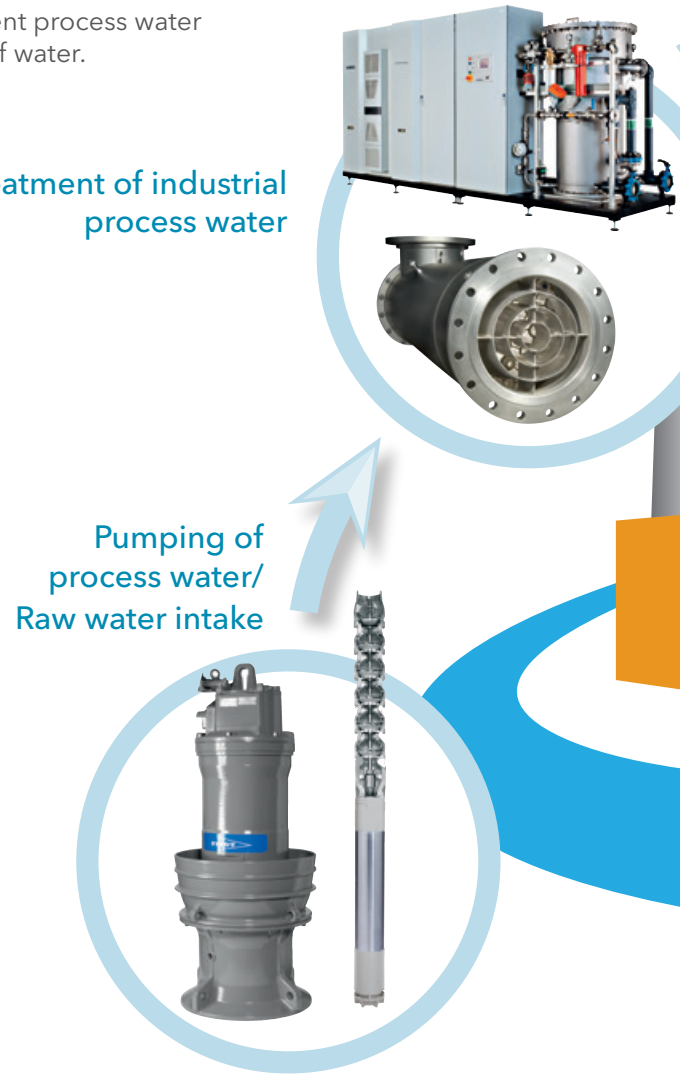
- raw water intake
- production and supply of drinking and process water
- pumping in all areas of an industrial site
- optimization of processes using water
- pressurized systems
- collection and treatment of industrial effluent and sludge
- treatment process water
- reuse of water.

Challenges faced by industrial customers

- Energy efficiency / ISO 50001 certification approach
- Improving the quality of wastewater and reducing the environmental impact thereof
- Water recycling
- Reliability of processes
- Lower operating costs
- Safety during construction and at work sites

Xylem Solutions

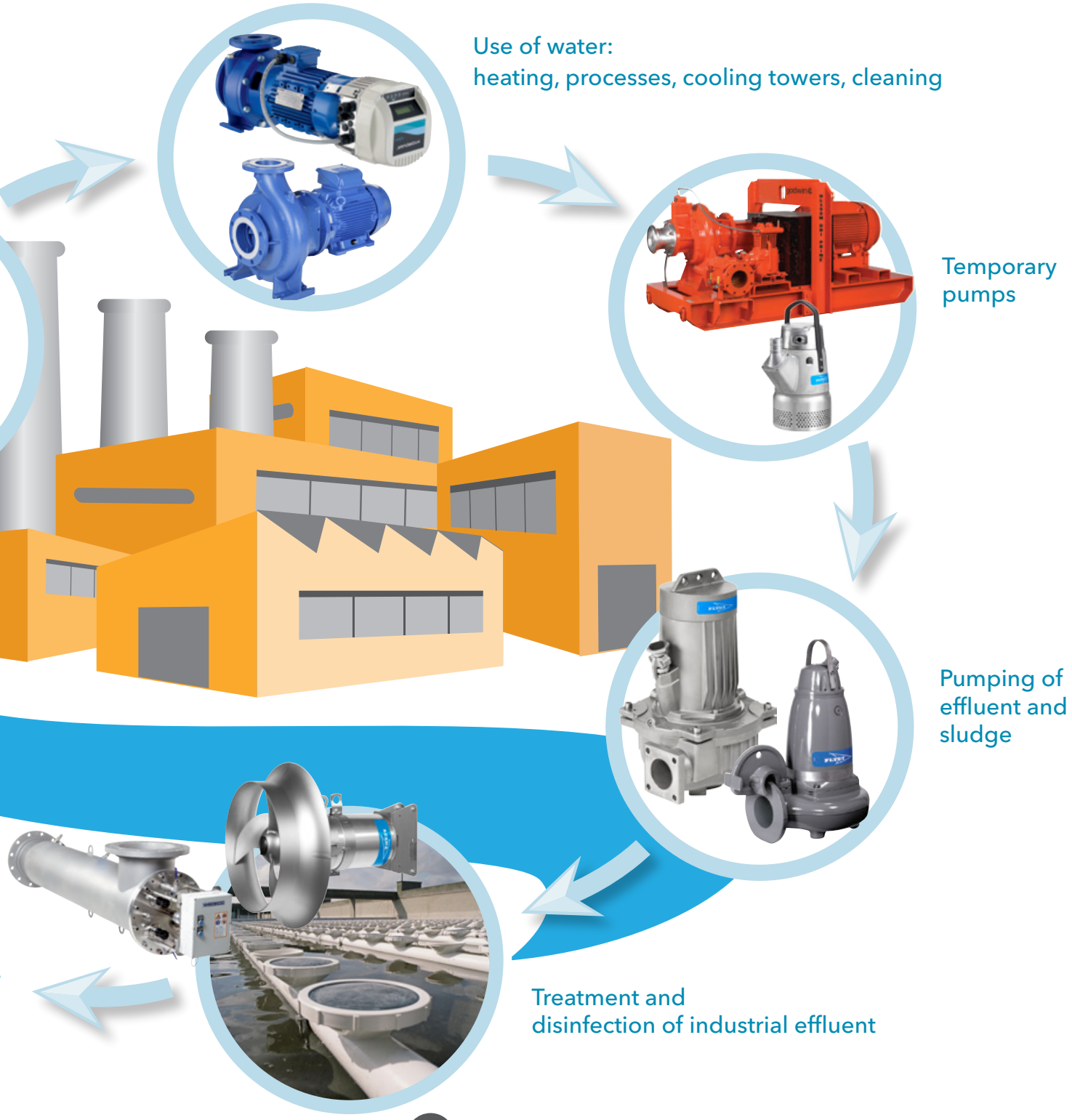
- A wide range of energy-efficient **pumps and mixers** for any type of liquid
- Reliable equipment requiring minimal maintenance
- **Variable speed solutions** to reduce energy consumption
- Cutting edge technologies for the **treatment of water using UV and ozone**, for disinfection, oxidation, reduction of the COD and various pollutants
- Solutions to improve the performance of your wastewater treatment facility
- Comprehensive solutions for **water pumping and treatment systems**
- Services and expertise, **energy audits**
- International supplier



FLYGT godwin LEOPOLD

... the processing of water and effluent

Backed by unique experience acquired over more than 100 years, Xylem is there to support you in optimizing your facilities, rendering your process more reliable, implementing energy-efficient management in line with ISO 50001, and continually improving the quality of used process water and industrial effluent.



Use of water:
heating, processes, cooling towers, cleaning

Temporary pumps

Pumping of effluent and sludge

Treatment and disinfection of industrial effluent

LOWARA SANITAIRE® WEDECO®

Agri-food industry

Solutions / Application	Page	Treatment and supply of water	Transfer of process water	Cleaning of tanks	Circulation of hot/icy water	Pressurized systems	Wastewater	Treatment of effluent
Oxidation	29	●						●
UV disinfection	29	●						●
Single-stage pumps	18	●		●	●			
Multi-stage pumps	19	●		●	●	●		
Pressure tank systems	20	●		●		●		
Hydrovar variable speed pump controller	30	●		●	●	●		
Wastewater pumps	25		●				●	
Submersible stainless steel pumps for corrosive water	24		●				●	
Mixers	27	●						●
Aeration systems	28							●
Portable drainage pumps	22		●			●	●	
Monitoring and control	30	●					●	●

Examples of installations

Circulation of icy water

Production of osmosis-purified water

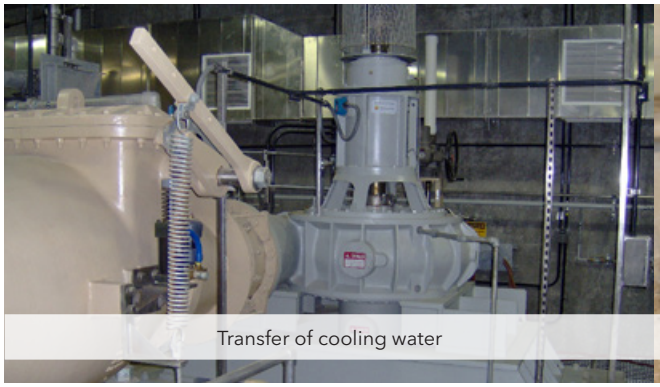
Pumping for autoclaves

Decanting from tanks

Steel industry

Solutions / Application	Page	Treatment and supply of water	Circulation of cooling / washing water	Water	Wastewater and process water	Treatment of effluent
Borehole pumps	17	●				
Oxidation	29	●				●
UV disinfection	29	●				●
Single-stage pumps	18	●	●			
Vertical and horizontal multi-stage pumps	19	●	●	●		
Pressure tank systems	20	●		●		
Hydrovar variable speed pump controller	30	●		●		
Wastewater pumps	25	●	●		●	●
Submersible stainless steel pumps for corrosive water	24				●	●
Mixers	27					●
Filtration system	28					●
Portable drainage pumps	22				●	●
Control and monitoring	30	●	●	●	●	●

Examples of installations



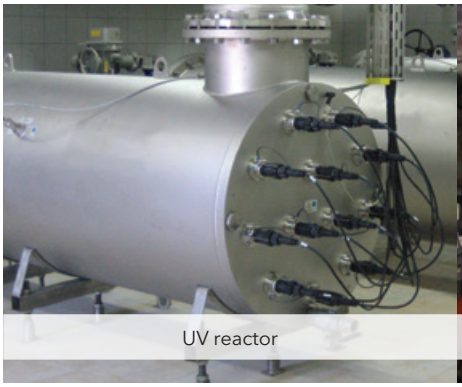
Transfer of cooling water

Pumping of returned hot water

Chemical industry

Solutions / Application	Page	Treatment and supply of water	Transfer of process water	Cooling systems	Wastewater	Treatment of effluent
Oxidation	29	●		●		●
UV disinfection	29	●		●		●
Single-stage pumps	18	●	●	●		
Multi-stage pumps	19	●	●	●		
Pressure tank systems	20	●		●		
Hydrovar variable speed pump controller	30	●		●		
Wastewater pumps	25	●	●	●	●	●
Submersible stainless steel pumps for corrosive water	24	●	●		●	●
Mixers	27					●
Aeration systems	28					●
Filtration systems	28					●
Portable drainage pumps	22	●	●		●	
Monitoring and control	30	●	●	●	●	●

Examples of installations



UV reactor

Water supply

Industrial processes

Power generation

Solutions / Application	Page	Treatment and supply of water	Cooling systems	Production of power	Wastewater	Treatment of effluent
Column pumps / Hydroturbines	16	●	●	●		
UV disinfection	29	●	●			●
Oxidation	29	●	●			●
Single-stage pumps	18	●	●			
Multi-stage pumps	19	●	●			
Pressure tank systems	20	●	●			
Hydrovar variable speed pump controller	30	●	●			
Wastewater pumps	25	●	●		●	●
Submersible stainless steel pumps for corrosive water	24				●	●
Portable drainage pumps	22				●	●
Mixers	27					●
Monitoring and control	30	●	●		●	●

Examples of installations

Cooling system

Water supply

Cooling system

Pulp and paper industry

Solutions / Application	Page	Treatment and supply of water	Transfer of process water	Surface treatment	Paper bleaching	Fibers washing/ pressurized systems	Wastewater	Treatment of effluent
Borehole pumps	17	●						
UV disinfection	29	●	●					●
Oxidation	29	●	●	●	●			●
Single-stage pumps	18	●	●					
Multi-stage pumps	19	●	●			●		
Pressure tank systems	20	●				●		
Hydrovar variable speed pump controller	30	●	●			●		
Sludge pumps	22						●	
Wastewater pumps	25	●	●				●	●
Submersible stainless steel pumps for corrosive water	24		●				●	●
Mixers	27							●
Filtration systems	28							●
Portable drainage pumps	22		●				●	●
Monitoring and control	30		●				●	●
Aeration	28							●

Examples of installations

Ozonation

Pharmaceutical & biotechnology

Solutions / Application	Page	Treatment and supply of water	Process / osmosis-purified water / ultra-pure water, etc.	Wastewater	Treatment of effluent
Borehole pumps	17	●			
UV disinfection	29	●	●		●
Oxidation	29	●	●		●
Single-stage pumps	18	●	●		
Multi-stage pumps	19	●	●		
Pressure tank systems	20	●			
Hydrovar variable speed pump controller	30	●	●		
Wastewater pumps	25			●	●
Submersible stainless steel pumps for corrosive water	24	●	●	●	●
Mixers	27				●
Aeration systems	28				●
Filtration systems	28				●
Portable drainage pumps	22	●		●	●
Monitoring and control	30	●		●	●

Examples of installations

Water supply

UV disinfection

Marine industry

Solutions / Application	Page	Treatment and supply of water	Dewatering of dry docks	Ballasting	Cleaning of boats	Fire prevention	Wastewater	De-icing / Sediment build-up prevention
Column pumps	16		●	●		●		
UV disinfection	29	●						
Single-stage pumps	18	●						
Multi-stage pumps	19	●				●		
Vertical multi-stage pumps with submersible hydraulic unit	19				●			
Pressure tank systems	20	●			●	●		
Hydrovar variable speed pump controller	30	●						
Wastewater pumps	25	●	●	●			●	
Submersible stainless steel pumps for corrosive water	24	●	●				●	
Portable drainage pumps	22		●	●			●	●
Mixers	27							●

Examples of installations

Dewatering of dry docks

General industry and OEM

Solutions / Application	Page	Treatment and supply of water	Transfer of process water	Washing of machine tools	Wastewater	Treatment of effluent
Borehole pumps	17	●				
Oxidation	29	●			●	●
UV disinfection	29	●				●
Single-stage pumps	18		●	●		
Multi-stage pumps	19	●	●	●		
Vertical multi-stage pumps with submersible hydraulic unit	19		●	●		
Pressure tank systems	20	●	●	●		
Hydrovar variable speed pump controller	30	●	●	●		
Wastewater pumps	25		●		●	
Submersible stainless steel pumps for corrosive water	24		●		●	
Mixers	27					●
Aeration systems	28					●
Filtration systems	28					●
Portable drainage pumps	22				●	●
Monitoring and control	30	●			●	●

Examples of installations

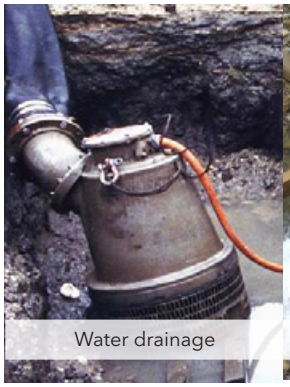
Water supply to boilers

Integration into a system

Quarries and concrete mixing plants

Solutions / Application	Page	Equipment hire available	Treatment and supply of water	Dewatering	Water	Filtration	Water drainage	Pumping of contaminated water and corrosive sludge	Treatment of effluent
Borehole pumps	17	●	●	●	●				
Single-stage pumps	18	●	●	●		●			
Multi-stage pumps	19		●		●	●			
Pressure tank systems	20		●		●				
Hydrovar variable speed pump controller	30	●	●	●	●	●			
Sludge pumps	22	●					●	●	●
Submersible stainless steel pumps for corrosive water	24		●	●			●		●
Wastewater pumps	25	●	●	●			●	●	●
Self-priming portable pumps	23	●	●	●			●	●	●
Mixers	27	●						●	●
Portable drainage pumps	22	●	●	●	●		●	●	●
Monitoring and control	30		●		●		●		●

Examples of installations



Water drainage

Water drainage

Water supply

Automotive industry

Solutions / Application	Page	Treatment and supply of water	Water	Transfer of process water	Washing of paint booths	Wastewater	Treatment of effluent
Column pumps	16	●					
Borehole pumps	17	●					
Oxidation	29	●					●
Single-stage pumps	18	●	●	●	●		
Multi-stage pumps	19	●	●	●	●		
Multi-stage pumps with submersible hydraulic unit	19				●		
Hydrovar variable speed pump controller	30	●	●	●	●		
Pressure tank systems	20	●	●		●		
Wastewater pumps	25	●		●		●	●
Stainless steel submersible pumps for corrosive water	24	●		●		●	●
Mixers	27				●		●
Aeration systems	28						●
Portable drainage systems	22	●				●	●
Monitoring and control	30	●	●	●	●	●	●

Examples of installations

Cleaning of parts

Car wash station

Surface treatment

Solutions / Application	Page	Treatment and supply of water	Washing of parts	Transfer of process water	Quenching tanks	Wastewater	Treatment of effluent
Borehole pumps	17	●					
Oxidation	29	●					●
Single-stage pumps	18	●	●	●			
Multi-stage pumps	19	●	●	●			
Vertical multi-stage pumps with submersible hydraulic unit	19	●	●	●			
Pressure tank systems	20	●	●				
Hydrovar variable speed pump controller	30	●	●	●			
Sludge pumps	22			●		●	●
Wastewater pumps	25			●		●	●
Submersible stainless steel pumps for corrosive water	24			●		●	●
Mixers	27				●		●
Filtration systems	28						●
Portable drainage pumps	22					●	●
Monitoring and control	30	●				●	●

Examples of installations

Washing of parts

Washing machines

Oxidation

Aquaculture / fish farming

Solutions / Application	Page	Treatment and supply of water	Aeration of tanks	Cleaning of shells	Fish waste management	Water	Treatment of water before disposal
Column pumps	16	●					
Borehole pumps	17	●					
UV disinfection	29	●					●
Oxidation	29	●					●
Single-stage pumps	18	●		●			
Multi-stage pumps	19	●		●			
Hydrovar variable speed pump controller	30	●		●			
Wastewater pumps	25	●			●	●	●
Submersible stainless steel pumps for corrosive water	24	●				●	●
Pump stations	26					●	●
Mixers	27		●				●
Portable drainage pumps	22	●				●	
Monitoring and control	30	●					
Aeration	28						●

Examples of installations

Circulation of cold water

Raw water intake

UV disinfection

Column pumps

Flygt P7000, Flygt L3000, Flygt large vertical and Flygt hydro-turbines

Advantages

- Modular, compact design
- Quick and easy installation
- Less maintenance owing to patented anti-clogging N technology
- Robust and durable

Applications

- Raw water intake
- Transfer of sludge and effluent in large volumes of low height
- Cooling water
- Flooding
- Outlet effluent from water treatment plants
- Aquaculture, fish farming
- Water parks and leisure parks
- Olympic white-water courses

L3000
Column pump with N impeller or with piping

P7030
Slimline propeller pump

Opting for Flygt propeller pumps allows you to reduce your construction and installation costs by 50%

Usable in applications with heads up to 20 meters (65 ft) and flows up to 10 m³/s per unit, a wide variety of site conditions can be accommodated by our family of turbines.

EL 7585
Flygt submersible hydro-turbine

AC-series, Large vertical column pump

Model	Power (kW)	Height max. (m)	Flow max. (l/s)
P7000	6.0 - 500	11	6000
L3000	1.3- 430	20	2200
AC-series, Large vertical	>500*	175*	25000*

* customization according to customer need and available power supply

4″ to 12″ borehole pumps

e-GS, Scuba, Z6, Z8, Z10, Z12

Advantages

- Compliant with ErP 2015
- Dynamic wear ring (only Z8-10-12)
- Highly resistant to use and abrasion
- Resistant to corrosion
- Available in Duplex stainless steel (only Z8-10-12)
- A choice between oil or water tank motors
- Easy to maintain
- Durable
- Horizontal or vertical operation

Scuba (5″)

Z8

Applications

- Water supply
- Irrigation
- Pressurized systems
- Lowering of the water table
- Fire prevention

Cooling jackets

Z6

Model	Size of borehole ∅	Power max kW	Height Max. m	Max. flow m³/h
e-GS	4″	7.5	340	21
Scuba	5″	1.1	80	7.5
Z 6	6″	55	700	78
Z8	8″	150	550	180
Z10	10″	300	545	350
Z12	12″	350	450	520

Single-stage pumps

e-NSC, e-SH, SHO, CO, CEA, LSN and LSB

Advantages

- High output
- Compliant with the ErP 2015 standard
- Compact design (long frame versions)
- Easy to maintain owing to its Back-Pull-Out design
- Sturdy construction
- Highly versatile owing to a wide selection of materials - the best solution, irrespective of the liquid pumped
- Speed variation option with Hydrovar
- Option for IE4 motors
- ACS certification

NSCF
Single-stage pumps
EN733 standardized

e-SH
Standardized centrifugal pumps
EN 733 with Hydrovar variator

SHO
Stainless steel
pumps with open
impellers

Applications

- Water supply
- Pressurized systems
- Circulation of overheated water
- Cooling cycles
- Transfer of process water
- Transfer of returned hot water
- Fire prevention

CO/CEA-CEAN
Stainless steel single unit centrifugal pumps with open (CO) or closed (CEA) impellers

LSN
ISO2858 standardized single unit pumps on a frame with closed radial impeller

Model	Flow max. m³/h	Max. height m	Range of temperature, °C
SHO	53	50	-10°C to 120°C
CO	54	24	
CEA(N)	31	30	-10°C to 110°C
e-SH	240 (2 poles) 130 (4 poles)	110 (2 poles) 23 (4 poles)	-30°C to +120°C
e-NSC	640 (2 poles) 1,800 (4 poles)	160 (2 poles) 100 (4 poles)	-40°C to +160°C
LSB	450	150	up to 140°C
LSN/LSNI	550	150	up to 180°C (from 160°C with API Plan for cooling)
LS	4,600	100	
LC (PN 25)	4,600	100	
LCP	4.600	100	up to 210°C with API Plan for cooling

LSB
single unit pumps
standardized, with closed radial
impeller

Multi-stage pumps

e-SV, MPB-MPV, SVI and e-HM

Advantages

- Impellers available in different materials (stainless steel, bronze, cast iron) for corrosive liquids
- High output
- Energy efficient and reliable
- Easy to maintain
- Tandem pumps up to 40 bar (e-SV)
- Speed variation option with Hydrovar
- Option for IE4 motors
- ACS certification

Applications

- Water supply
- Water circulation
- Pressurized systems
- High-pressure washing
- Cooling cycles
- Transfer of process water
- Water supply into industrial boilers
- Lubrication of machine tools

e-SV
Multi-stage vertical pumps

e-SV™ series
Available in multiple configurations: 180°C and 150°C versions, low NPSH, high pressure (up to 40 bar). Passivated / Electropolished finish

e-HM
Horizontal multi-stage

SVI
Vertical multi-stage with submersible hydraulic unit

MPB/MPV
Multi-stage horizontal and vertical

Model	Max. flow m³/h	Height max. m	Temperature range °C
e-SV	160	330	-30°C up to +180°C
MPB-MPV	340	500	-10°C up to +140°C
SVI	160	330	10°C up to +90°C
e-HM	29	160	-10°C up to +120°C
PVa	900	350	up to +140°C
MP / MPA / MPAI	340	500	
e-HM	29	160	-10°C up to +120°C
P	2.000	420	up to +140°C
MPE	300	850	up to +160°C

MPE
Multi-stage with closed radial impellers

Pressure tank systems

GXS, GMD, GS, GTKS, SVH, GHV, SPI

Advantages

- Comprehensive turnkey skid systems
- Standalone multi-pump operation
- Fixed or variable speed with Hydrovar variators
- Flexible usage
- Optimized operational costs
- Easy to maintain
- ACS certification

Applications

- Water distribution
- Water overpressure
- Washing facilities
- Fire prevention

GHV40
with 4 e-SV pumps

GXS
With 2 e-HM pumps

SVH
with Hydrovar variator

GSD
with 3 pumps + jockey

Model	Number of Pumps	Type of pump	Speed	Phases	Max. flow m³/h	Height max. m	Power max. kW
GXS	2	CEA, e-HM, e-SV	fixed	1	58	140	2 x 1.5
GMD	2	CEA, e-HM, e-SV	fixed	3	62	160	2 x 4
GSD/GSY	2-3	e-SV, e-SH or eNSC	fixed	3	480	160	2-3 x 37
GTKS	2	CEA, e-HM, e-SV	variable	1	50	90	2 x 1.1
SVH	1	e-SV	variable	3	160	260	1 x 22
GHV	2-4	VM, e-SV	variable	3	640	250	2-8 x 45
Special SPI configurations	2-8	Tailor-made design to ensure suitability for your specific set-up					

Circulation pumps

For heating networks or domestic hot water

Circulation pumps for industrial buildings

ecocirc XL
Single version circulator

Ecocirc XL advantages

- Dry run detection
- Analog input (0-10 V / 4-20 mA)
- Digital input on/off
- Digital signal output
- Speed, pressure and immediate pressure reading
- Provision of an insulation casing for single version

Ecocirc XL plus advantages

- Wi-Fi connection (module as an option) or Ethernet cable
- Integrated GTC Communication (Modbus RTU, BACnet)
- Automatic switching for double version
- Temperature probe input (delta T)

e-LNEH
Single version online pump
with Hydrovar variator

e-LNT
Double version
online pump

ecocirc XL
Double version circulation pump

Single or double centrifugal online pumps

e-LNE (single) and e-LNT (double) advantages

- Energy efficiency higher than the requirements of ErP standards, high output IE3 motors for the entire range.
- Option for IE4 motors
- Speed variation option with Hydrovar
- ACS certification for the entire range

Applications

- Heat transfer
- Heating and air conditioning of buildings
- Water supply to boilers
- Domestic hot water cycles

ecocirc XL
Bronze version circulation pump

Drainage pumps

BIBO, Ready, 2600, 2800, H5000

Advantages

- High reliability
- Resistance to heavy use
- Safe operation
- Easy to maintain
- Different compositions (cast iron, chrome casting, etc.)
- Modular pumps with several different motor and hydraulic variations

Applications

- Drainage of catch basins
- Drainage of wastewater tanks (paper pulp production, etc.)
- Pumping of runoff water, water in settling tanks
- Pumping of liquids with abrasive particles
- Evacuation of sludge (mines and quarries)
- Industrial residual water

H5000: for sludges with particles up to 40 millimeters in grain size.

Ready

2400 2250

2600

H5000

Equip-ment hire available

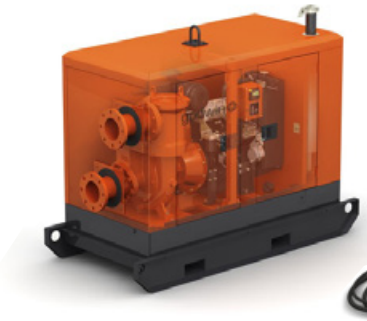
BIBO 2800

Model	Product type	Max. power kW	Fluid density pumped	Weight max kg	Diameter max. mm	Height max. mm
Voltage 400 V / 3 ~ / 50 Hz, 2-pole, 400 V / 3 ~ / 50 Hz, 4-pole or 230 V / 1 ~ / 50 Hz, 2-pole						
2000 classic	207x, 2125, 2190, 2201, 2400, 2201, 2250	90	1.1	985	770	705 - 1,245
Ready	2004, 2008, 2008S	0.9	1.1	15	260	400 - 505
2600	2610, 2620, 2630, 2640, 2660, 2670	18.0	1.1/1.2	132	395	955
BIBO 2800	2830, 2840, 2860, 2870	18.0	1.1	154	500	991
5000	5520,5530,5100,5150,5570	170	1.5	2000	1225	2312

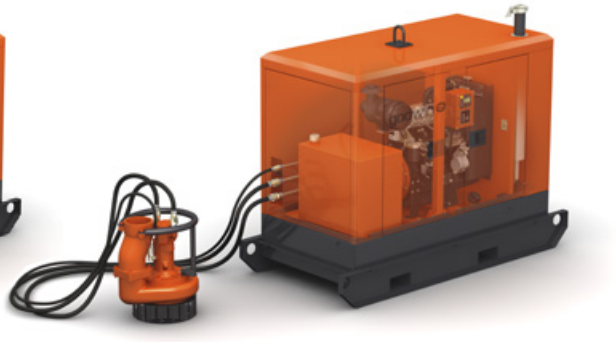
Self-priming pumps for contaminated wastewater

Dri-Prime® CD, NC, HL, Heidra

Dri-Prime® CD and HL



Dri-Prime version sound-proof casing



Heidra, submersible with hydraulic drive

Advantages of the Dri-Prime® CD , NC and HL

- Automatic dry self-priming
- Sturdy design
- Can dry-run infinitely
- Pumping of liquids containing solid matter
- Large capacity fuel tank
- Soundproof chamber for silent operation
- Electric or diesel motor

Applications

- Drying up in mines and quarries
- Wastewater diversion
- Temporary pumping in the event of fire or flood
- Lowering of the water table and drying up
- Pumping of sludge and emptying of tanks
- Temporary raw water supply

Equip-ment hire available

Advantages of the Heidra

- Sturdy cast iron construction
- Multiple versions: silent or open, on fixed frame, building site or road trailer
- Diesel motors
- "Sludge door" option for mixing: resus-pension without using a stirrer

Applications

- Pumping of light liquid sludge
- Drainage of wastewater
- Drainage of surface water
- Resuspension of sludge without using a stirrer

Model	Max. height m	Max. flow m³/h	Flow area max. mm
CD	80	2.900	125
NC	45	1.400	–
HL	200	1.300	65
Heidra	105	1.368	125

Submersible stainless steel pumps

Flygt D8000

Advantages

- Highly resistant to wear and corrosion
- Sturdily constructed with vortex impeller
- Compact design
- Easily transportable
- Made entirely from stainless steel
- Low maintenance

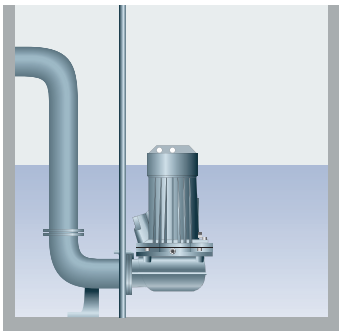
Applications

- Pumping of corrosive liquids
- Pumping of corrosive industrial liquids
- Pumping of sea water
- Pumping of corrosive wastewater

Ideal for pumping corrosive water containing high quantities of particles and/or fibrous materials

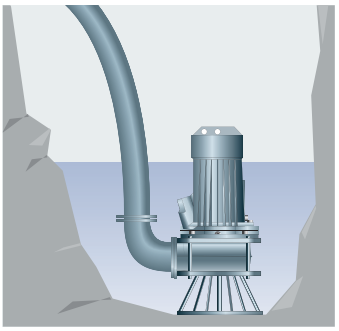
Types of installation

DP



Semi-permanent installation with mounting base and double guide bar.

DS



Portable, for temporary installations with base and connection for flexible piping.

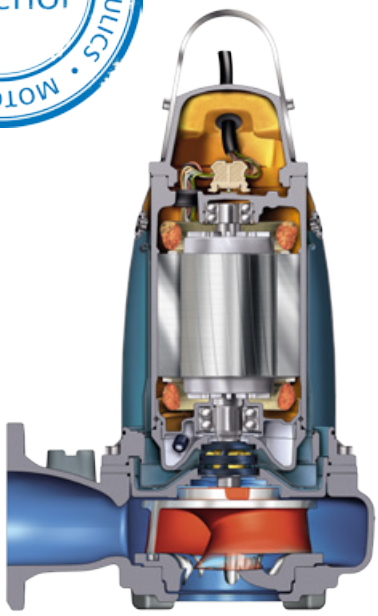
Model	D 8050	D 8053	D 8056	D 8058
Power 50Hz	1.5-2.6 kW	3.5-4 kW	5-7.5 kW	9-13 kW
Backflow (DN)	50mm (2") 65mm (2½") 100mm (4")	50mm (2") 65mm (2½") 100mm (4")	- 65mm (2½") 100mm (4")	- 65mm (2½") 100mm (4")
Versions available	LT, MT, HT	LT, MT, HT	LT, MT, HT	LT,HT

Self-cleaning wastewater pumps

Flygt 3000

Advantages

- Patented self-cleaning, anti-clogging N impeller technology
- High, constant output
- Different types of hydraulics (vortex, channel, N, grinder, chopper, etc.)
- Different compositions (cast iron, chrome casting, etc.)
- Many different options (voltage, cabling, paint, etc.)
- Modular construction
- High reliability
- Low maintenance

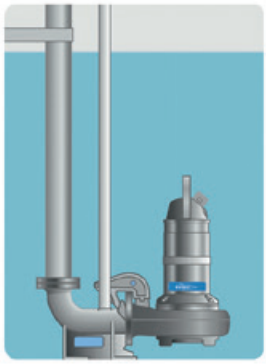


Applications

- Wastewater and contaminated water
- Cooling water
- Recirculation of sludge
- Industrial effluent
- Rainwater collection
- Transfer of process water

Flygt N 3000 pumps are as suitable for use in submerged set-ups as in dry pits.

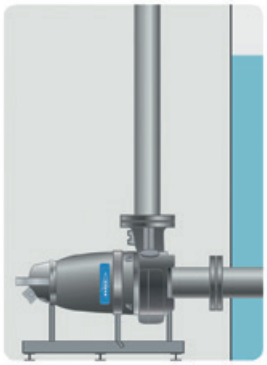
Possible installations:



P

S

T



Z

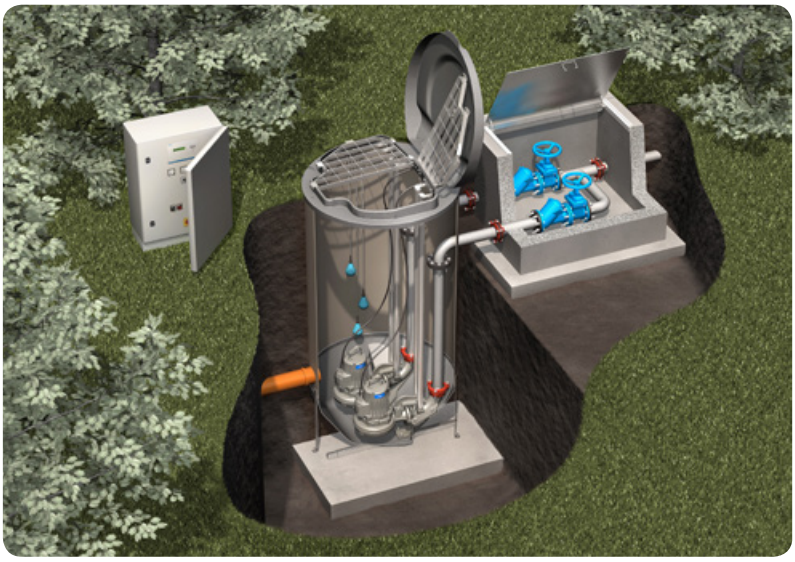
Model	Power (kW)	Max. height (m)	Flow max. (l/s)	Hydraulic
N 3000	2-310	100	900	Anti-clogging N impeller

Complete pumping solutions

Engineered and packaged pumping solutions

Ready-to-install pumping solutions

Xylem offers pre-engineered, pre-fabricated pumping solutions combining premium pumps with dedicated monitoring and control options designed for your needs. The prefabricated pumping stations are available in a range of designs and sizes, all supplied complete with the necessary equipment to allow ease and speed of installation and commissioning.



Prefabricated pumping station with mid-size submersible pumps

Engineered pumping solutions

Xylem can offer reliable and cost-effective pumping solutions meeting your specific requirements. Our know-how in pump station design is based on a long history within pumping. Our engineers work closely with you, from design and system analysis to selection of pumps, installation equipment and monitoring & control solutions.

Dry-installed submersible pumps

Integrated monitoring and control systems for remote monitoring and control.

Mixers

Flygt 4320, 4400, 4600

Advantages

- Expertise from over 50 years of mixing experience
- Flexibility in terms of settings and adjustable pressure
- Wide selection of materials and options (for example, hot liquids)
- Can be adapted to all types of tank
- Optimized mixing with low energy consumption
- Prevention of sediment deposits

Compact mixer
Model 4600

Low speed mixer
Model 4320

Applications

- Quenching tanks
- Treatment of activated sludge
- Aeration tanks
- Retention basins
- Prevention of ice formation
- Settling tanks
- Mixing of liquids with abrasive particles
- Oxygenation in lakes and ports
- Resuspension, homogenization

Model 4320: Super premium (IE4) high efficiency mixer with integrated variable frequency drive

Model	Description	Motor / assembly	Power	Propeller diameter m	Pressure
4320	Low speed mixers integrated variable frequency drive (IE4 motors)	Submersible/ horizontal	2 - 8kW	1.4 - 2.5	up to 6,100 N
4400	Low speed mixers	Submersible/ horizontal	0.9 - 5.7kW	1.4 - 2.5	up to 4,700 N
4600	Compact mixers	Submersible/ horizontal	0.9 - 25kW	0.2 - 0.8	up to 6,400 N

Aeration and filtration of wastewater

Fine and coarse bubble aeration systems

Sanitaire®'s fine bubble diffuser is comprised of an EPDM membrane over a flat bottomed PVC disc that serves to support the membrane, and a PVC clamping ring. This diffuser system can either be installed on PVC or stainless steel piping for fixed set-ups at the bottoms of tanks. Typically used for biological treatments, with its modular design, the Sanitaire® fine bubble diffuser will suit all different types of configurations of treatment tanks.

Sanitaire coarse bubble diffused aeration is ideally suited for the applications where tanks cannot be dewatered for maintenance, in channels and grit chambers where mixing is more important than aeration, in aggressive industrial applications and in applications where energy consumption is not the main consideration.

Ceramic discs are often the preferred diffuser for applications that require durability and resistance to chemical attack, for example managing aggressive industrial discharges.

Applications

- Designed for air supply in the biological treatment processes at wastewater treatment facilities.

Advantages

- Higher aeration capacity with the lowest life-cycle costs
- The highest oxygen transfer capacity in the market
- Lasts for 7 to 10 years as opposed to 2 to 5 years for tube membrane diffusers
- Up to 40% energy savings for your aeration system

Leopold filtration systems

Reduce your operating costs!

The Leopold brand has been a leader for 90 years in the provision of gravity-based rapid filtration solutions with filters, for the clarification, denitrification and collection of sludge and backwash water at water processing plants. Leopold has developed drinking water filtration solutions based on floor filtering mediums that are as suitable for the restoration and repair of existing installations as for turnkey projects.

Choosing Leopold means investing in an ACS-certified filtration system offering a combination of efficient performance, ease of set-up, ease of operation and savings in terms of energy and maintenance.

Advantages

- Quick and easy to implement
- Less frequent backwashing
- Highly adaptable to existing filters
- Lower operating costs
- Economical set-up

Applications

- Treatment of process water
- Treatment of effluent

Oxidation and disinfection

Wedeco UV and Ozone solutions

Advantages of UV and Ozone solutions

- Improved water quality through removal of hazardous pollutants
- Disinfection of pathogens
- Lower energy consumption
- Micro-pollutant removal
- Odor and taste removal
- Eco-friendly solution as no harmful chemical residue (such as chlorine) remains, and it has no unpleasant odor
- Easy to install, with low maintenance

Spektron

Disinfection / oxidation units using UV

to achieve optimized hydraulic performance owing to a unique flow distribution concept, and that are equipped with an automatic motorized cleaning system serving to cut down on maintenance

Model	Power	Flow	Application
Spektron	0.055 - 0.38kW	2.9 m³h - 36.8 m³/h	Clean water
Spektron E	0.53 - 16.6 kW	49m³h - 4,156 m³/h	Clean water
LBX	0.1 - 20.57kW	2.6m³/h - 1,346 m³/h	Wastewater
Duron	tailor-made	≥ 750m³/h	Wastewater
Quadron	1.5 - 48kW	1,200m³/h - 4,100m³/h	Clean water

Killing bacteria, viruses and parasites using ultraviolet (UV) radiation is a tried and tested eco-friendly means of disinfection. ACS-UV certification (decree of 9 October 2012)

Applications

- Drinking water
- Process water cycles
- Water recycling
- Cooling water
- Industrial laundries
- Wastewater, effluent
- Lowering of the soluble COD

Ozone generators

Each generator is tested at the factory before being dispatched.
The dielectric tubes have a 10-year warranty.
Electrical supply through IGBT allows for the absence of harmonics.
They are delivered standard with:

- Dew point analyzer
- Detector of ozone leaks
- Measurement of speed, regulation valve

Lower maintenance and cases equipped with an air-conditioning system

Ozone generator

Model	Description	Production of ozone
GSO EVO & OCS	Small "ready to install" ozone generators	2g/h up to 400g/h per unit
SMO evo	Compact system on Skid for an average ozone production capacity	200g/h up to 20,000g/h per system
PDO evo	Production of large volumes of ozone	15.3kg/h up to more than 200kg/h Ozone per system

Speed variation devices

Hydrovar variable speed pump controller

Pumps operating at full speed often lead to a waste of power.
Equipped with the Hydrovar® speed variator, your pump provides the exact speed and manometric height required for your specific set-up.

This represents a true energy savings. This does not only serve to change the speed of the motor, but it also manages and improves the performance of the pump in such a way that it adapts to the set-up concerned.

- Functioning possible under constant flow, pressure and temperature
- Up to 70% in energy savings
- Set-up possible for any pump brand
- Standalone system separate to the motor
- Easy "clip & work" type assembly
- Easy to maintain
- Multi-pump assembly (up to 8 Hydrovars)

Control units and devices

Advantages

- Easy to use
- Rapid implementation
- Single-phased or three-phased current versions
- Depending on the model, regulation through level ball or sensors

Applications

- Boring
- Wastewater lift stations with 1 or 2 pumps

Equipment hire: a turnkey solution!

Benefit from our expertise for your temporary water pump requirements to prepare for unforeseeable circumstances. Hire a reliable turnkey solution for water pumping, aeration and mixing.

- Bypassing of wastewater
- Drainage of tanks
- Hiring of equivalent equipment during maintenance or while repairs are being effected
- Temporary pumping for fire prevention
- Temporary raw water supply
- Trial hiring before purchase
- Cleaning out of tanks, water tests, etc.

All of our short- and long term turnkey solutions include a hydraulic study, transportation, installation, the removal of pumps and accessories, monitoring of work sites and on-site maintenance

Safe, optimal usage

To provide fast and reliable maintenance and repairs of our Xylem products in all kinds of industries everywhere in the world, we have established a network of authorized, local service providers. We are pleased to recommend our professional and experienced Xylem Authorized Service Partners.

When you go to a Xylem Authorized Service Partner you can be sure to receive qualified, high-quality service. Our partners are trained and certified to provide Xylem specified services, like:

· Installation & Commissioning
· Repair & Maintenance
· Maintenance Agreements
· Inspection & Auditing

Xylem [’zīləm]

1) Plant tissue which transports water from the roots to the upper part of plants (xylem);
2) Leading company worldwide in the water technologies sector.

We all share the same goal: to create innovative solutions that meet the planet’s water needs. Developing new technologies that improve the way in which water is used, stored and re-used in the future forms the cornerstone of our work. At all points of the water cycle, we transport, treat, analyze and return it to its natural environment. This enables us to contribute towards efficient, responsible use of water in houses, buildings, manufacturing plants and farming operations. With a presence in more than 150 countries, we have, for a long time been building strong relations with our customers, who acknowledge our unique combination of leading brands and expertise in engineering, backed by a long history of innovation.

For more information on how Xylem and its solutions can help you, go to www.xyleminc.com

FLYGT godwin LEOPOLD LOWARA SANITAIRE WEDECO

xylem
Let’s Solve Water

Flygt, Lowara and Wedeco are Xylem brands. To get the latest version of this document and for more information about our product brands, go to **www.xyleminc.com**

2491 . Xylem solutions for the indystry . 1 . Master . 1 . 20160922
East Europe Export

N°5 - Manufacturing Brochure - FR - 2000/50 - 06/2016 - Quadri Communications - Photo credit Xylem