



**xylem**  
Let's Solve Water

**Free Line**  
group

# Commercial Building Services

A COMPLETE RANGE OF SOLUTIONS FOR IMPROVED SYSTEM PERFORMANCE





An aerial night photograph of a city skyline, likely Dubai, featuring numerous illuminated skyscrapers and a curved waterfront with a marina filled with boats. The scene is lit with warm city lights and cool blue tones from the sky and water.

**LET'S  
CHANGE  
THE WAY  
WE SPEAK  
EFFICIENCY**

[www.buildings.xylem.com](http://www.buildings.xylem.com)

[www.flgroup.uz](http://www.flgroup.uz)





## experience

Xylem is a global leader in water technology, with advanced research, innovative design and application expertise that helps our customers solve their most complex water-related challenges. With a broad portfolio including some of the world's leading water, wastewater and HVAC brands, we can provide the most comprehensive offering of products and solutions to the commercial building services industry.

## extensive information

Having recognised the demands of the commercial building services market, we are well placed to support specifiers with the selection and specification of equipment. Xylect is an industry leading tool offering up-to-date information and an overview of our extensive range of products. Information can be distributed to members of your project, helping to shorten your lead times. Extensive documentation, such as CAD files, specifications and tender texts required by specifiers, are also available.

## exact configuration

Tailored specifically for consultants, sales engineers and specifiers, Loop4U is a selection software designed to identify and configure the ideal Xylem pumping equipment to meet your exact requirements. Loop4U matches the given data against a comprehensive database and presents the results in a list that can be arranged and fine-tuned to provide an exact configuration of the pump.

## environmentally engineered

All Xylem products are developed with the environment in mind. We continually strive to produce equipment which boasts superior performance and efficiency characteristics, significantly lowering lifecycle costs and increasing energy savings.







# You Can Trust Us

Xylem products and solutions are installed all over the world and probably close to you. We've been chosen because we are able to understand and meet the demands from a modern society focusing on cost efficiency and reliability.

Our products help creating comfort and safety in people's life whether they are at home, at work, watching a sports game or staying in 5 star hotels and spas.

## Vienna hospital, Vienna, Austria.

**Vienna hospital was inaugurated in 2004. Lowara and Vogel products distribute water and keep the temperature at a perfect level throughout the largest hospital in Europe.**

Close to 300 in-line and end suction pumps and booster sets are installed here.

## Hospital Beatriz Ângelo, Lisbon, Portugal.

**Since 2012 this has been a fully Xylem equipped hospital.**

Heating and cooling: 125 Lowara FC, e-SV and FH pumps, 92 of them with Hydrovar. Water supply and irrigation: 3 GHV booster sets. Wastewater: 3 Flygt N3127. Firefighting: 1 Lowara booster set.



## Scarlet Sails apartment complex, Moscow, Russia.

**In 2012 Block V in one of the tallest residential building complexes in Moscow was inaugurated. Lowara pumps makes taking a shower a pleasure on all floors.**

Heating and cooling: 8 FC with Hydrovar. Water supply: 7 e-SV booster sets with Hydrovars.

## Ashgabat 2017 games, Turkmenistan.

**Ashgabat in Turkmenistan is set to be the home of the fifth Asian Indoor and Martial Arts games in 2017.**

Totaling over 1,466 square meters, the multi-purpose sports facility, comprising 30 venues. The Xylem team specified more than 1,000 pumps for water and wastewater handling for phase one and two of this project.





These case studies are just a few examples, find more at **xylem.com**

### Palazzo della Regione Lombardia, Milan, Italy.

**The 160 m high building trust Lowara pumps for fresh water and comfortable indoor climate.**

Heating and cooling: FC pumps with Hydrovar. Water Supply: GHV booster sets and FH pumps.



### Hermes Park Carrefour, Sofia, Bulgaria.

**In 2010 Xylem equipped the 170.000 m<sup>2</sup> shopping mall, biggest in the Balkans, with the complete pumping need.**

Heating and cooling: 185 FH, FC and LS pumps, 85% equipped with Hydrovar. Water supply: 2 GHV booster sets and 10 in-line and end suction pumps. Wastewater: 27 lifting stations. Firefighting: 7 GEN booster sets.



### Burj Khalifa, Dubai, UAE.

**Burj Khalifa opened in 2010. Xylem special designed variable speed booster sets distribute 1000 m<sup>3</sup> of water every day all the way up to the top floor of the 800 m building.**

Water supply: 6 water transfer sets and 7 pressure booster sets.



# 5<sup>th</sup> Generation Hydrovar

Energy is the largest cost of running any pump. Hydrovar Variable Speed Drive (VSD) works with your system to make it efficient.

Available from 1.5 to 22 kW in single or three phase, pump or wall mounted.

Pump mounted version will fit on any standard IEC motor. Optimised cooling of the HYDROVAR depending on the power and the speed of the pump is guaranteed by the motor fan.

Easy to commission, easy to setup and operate with the easy start up menu allowing you to walk through every step. New features include a larger screen display.

No external control panel needed.

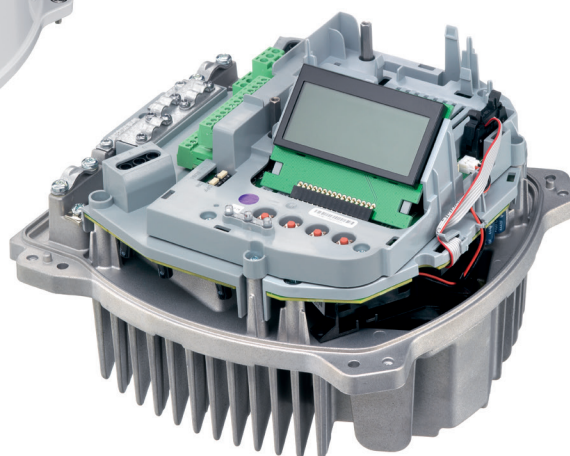
No water hammer. The steady operation of the pump in partial loads also prevents water hammer, which normally arises in the start/stop operation of full speed pumps.

Lower starting current. High current peaks are prevented by adjusting the start ramp times as you can in a soft starter.

Multi-pump capability comes as standard which allows control from 1 to 8 pumps. Communicating with a central control system is also possible via an RS485 interface, and each HYDROVAR contains an individual microprocessor which operates independently if a failure occurs. Modbus and BACnet protocol fitted as standard.

Lower noise from the pump because of lower speeds during operation. There is less noise in the pipeline and valves because of pump performance to the actual demand, and control along the system curve.

Less wear and less mechanical stress because of lower speed of the pumps during operation and no additional load in the starting moment because of the soft start feature.



**Energy savings of up to 70%, depending on energy costs and operating times; payback is normally within 2 years.**







# IT'S ABOUT SHORTEST PAYBACK TIMES

Running pumps at full speed is a waste of energy. Xylem's Hydrovar delivers exactly the flow and head you need in your system. This is energy saving. This is the power of e.





# IT'S ABOUT THE PUMP, MOTOR AND VARIABLE SPEED DRIVE

e is here. The ecocirc XL, new from Lowara. It's everything you need in a large wet rotor circulator and nothing you don't. The purposefully engineered, easy-to-install ecocirc XL is designed with simplicity and efficiency in mind. With a wide range of sizes and large coverage of flow curve, the ecocirc XL fits seamlessly into virtually any environment. This is your opportunity to create a more efficient system. This is the power of e.





# HVAC



Xylem offers a complete range of high efficiency pumps for heating, cooling and hot water systems, including state-of-the-art variable speed solutions.



## ecocirc Series

- High efficiency energy saving variable speed circulators suitable for stand alone and boiler OEM applications.
- ErP ready to 2015 standards.
- Capacities to 3,2 m<sup>3</sup>/h
- Head to 6 m
- Maximum pressure 10 bar
- Temp -10°C to +110° C
- Stainless steel pump body for DHW applications



## ecocirc XL Series

- High efficiency energy saving variable speed circulators.
- ErP ready to 2015 standards.
- Capacities to 70 m<sup>3</sup>/h
- Head to 18 m
- Communicate with Modbus, RTU and Bacnet systems
- Temp -10° C to +110° C
- Stainless steel pump body for DHW applications



## ecocirc PRO Series

- High efficiency circulators for DHW applications
- Capacities to 1 m<sup>3</sup>/h
- Head to 3 m
- Maximum pressure 10 bar
- Temp +2°C to +165°C



## e-LNE & e-LNT Smart Series

- Single/twin head
- Capacities to 38 m<sup>3</sup>/h
- Head up to 35 metres
- Powers to 1.5 kW

*Twin head available 4<sup>th</sup> QTR 2017*



## e-LNE Series

- Single head in-line pumps
- Capacity up to 900 m<sup>3</sup>/h
- Head to 100 metres
- Powers to 90 kW
- Temp -25° C to +140° C
- Can be equipped with Hydrovar variable speed pump controller



## e-LNT SERIES

- Twin head in-line pumps
- Capacities to 800 m<sup>3</sup>/h
- Head to 100 metres
- Powers to 37 kW
- Temp -25° C to +140° C
- Can be equipped with Hydrovar variable speed pump controller



# Water Supply



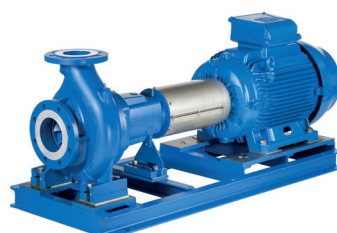
Reliable water supply means clean water out of the tap, as well as on the top floor.

Xylem offers Wedeco UV disinfection systems and a wide range of Lowara multistage pumps and prefabricated, ready to operate booster sets with or without variable speed control to meet your highest expectations for water quality, life cycle cost and efficient operation.



## e-MP Series

- Cast iron/stainless steel vertical and horizontal multistage pumps
- Capacities up to 850 m<sup>3</sup>/h
- Head up to 950 m
- Power up to 1.250 kW
- Can be equipped with Hydrovar variable speed pump controller



## e-NSC Series

- Cast iron end suction pumps according to EN 733
- Capacities up to 1,800 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 355 kW
- Can be equipped with Hydrovar variable speed pump controller



## e-SV Series

- Stainless steel vertical multistage pumps
- Capacities up to 160 m<sup>3</sup>/h
- Head up to 330 m
- Power up to 55 kW
- Can be equipped with Hydrovar variable speed pump controller



## GS Series

- Fixed speed booster sets with 2-3 pumps.
- Capacities up to 480 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 37 kW / pump
- Communicate via Modbus



## GV Series

- Variable speed booster sets with a variable speed drive and controller built in the control panel, equipped with 2 to 4 pumps
- Capacities up to 640 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 37 kW / pump
- Communicate via Modbus or internet



## GHV Series

- Fully flexible variable speed booster sets where all pumps are speed controlled with individual Hydrovar, equipped with 2 to 4 pumps
- Capacities up to 640 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 22 kW/ pump
- Communicate via Modbus and BACnet



## AQUADA UV

- The benefits of Ultraviolet Disinfection, enhances overall water safety, no harmful chemicals or by-products, no affect on taste and water quality, simple to install with low maintenance and economical.
- Capacities up to 28 m<sup>3</sup>/h



# Lowara Smart Pump Range (e-SM drive)



Xylem Lowara's most energy-efficient permanent magnet motor with integrated variable speed drive taking motor efficiency to a new level.



- Power up to 1.5 kW
- Can link up to 3 pumps
- Can be coupled with most Lowara pump units
- Reduced energy / CO<sub>2</sub> / life cycle / running costs
- Easy to commission
- Less wear and less mechanical stress to the pump unit
- Works with your system to make it efficient
- BACnet and Modbus as standard (card required for multi-pump)
- Compact design
- Single phase input
- Sensorless version for e-LNE pump
- IES2 compliant when fitted with IE5 Lowara Motor




## SMB Smart Booster Sets

- Variable speed booster set with 2 or 3 pumps
- Capacities up to 90 m<sup>3</sup>/h
- Head up to 150 m
- Power up to 1.5 kW per pump







**THERE ARE  
PEOPLE WHO DO,  
AND PEOPLE WHO TEACH.  
WE DO  
BOTH!**

**Exclusive training programme.** Xylem provides complimentary training in selection and use of all Xylem products at its training centers in Europe. The courses are designed to be practical as well as theoretical, preparing delegates with skills to size and specify the correct pumps and related technologies for a range of applications and systems.

**For more information**  
**[www.lowara.com/training](http://www.lowara.com/training)** [training.aws.emea@xylem-inc.com](mailto:training.aws.emea@xylem-inc.com)  
(+998) 95 475 00 40, (+998) 90 350 38 68, (+998) 90 908 97 11

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Let's Solve Water



# Drainage and wastewater products



The Lowara submersible pumps range is suited for a wide variety of applications such as, for example, drainage of residential sump pits, sewage pumping, emptying of sumps, septic tanks and wastewater discharge tanks.



## DOMO Series

- Wastewater/ sewage pumps
- Capacities up to 40 m<sup>3</sup>/h
- Head up to 14,5 m
- Power up to 1,5 kW
- Solid up to 50 mm



## DIWA Series

- Drainage pumps
- Capacities up to 25 m<sup>3</sup>/h
- Head up to 21 m
- Power up to 1,5 kW
- Solid up to 8 mm



## DL Series

- Wastewater/ sewage pumps
- Capacities up to 42 m<sup>3</sup>/h
- Head up to 21,9 m
- Power up to 1,5 kW
- Solid up to 50 mm



## DOMO GRI Series

- Sewage pumps with grinder device
- Capacities up to 6,6 m<sup>3</sup>/h
- Head up to 25 m
- Power up to 1,1 kW



## DN Series

- Drainage pumps
- Capacities up to 16,8 m<sup>3</sup>/h
- Head up to 22 m
- Power up to 0,75 kW
- Solid up to 5 mm



## LOWARA 1300 Series

- Wastewater / sewage pumps in cast iron with non-clog or vortex impeller
- Capacities up to 414 m<sup>3</sup>/h
- Head up to 63 m
- Power up to 18 kW
- Temp up to +40°C



# Waste Water



## Market leader in public utility wastewater handling for decades.

Flygt products live up to the toughest demands in the market, and now can deliver new benefits to commercial buildings. Flygt non-clogging wastewater products are built to be efficient for decades in removing dirty water containing solids.

The range covers pumps with hydraulic technology optimized for the duty points, pumping station designs and monitoring/ control equipment.



### Concertor Series

- Wastewater pumping system with integrated intelligence
- Maximum energy savings and clean wet wells
- Capacities up to 130 l/s
- Head up to 50 m
- Power up to 7.3kW



### Centrifugal pumps - N 3000

- Submersible pumps with self-cleaning N-technology impellers for clog free wastewater pumping
- Capacities up to 600 l/s
- Head up to 100 m
- Power up to 105 kW



### Vortex pumps - D 3000

- Submersible pumps with vortex impellers
- Capacities up to 47 l/s
- Head up to 28 m
- Power up to 7.4 kW



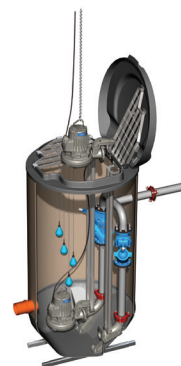
### Grinder pumps - M 3000

- Submersible pumps with grinder hydraulics
- Capacities up to 13 l/s
- Head up to 68 m
- Power up to 10,9 kW



### Pumpstations

- Range of self cleaning pumping stations for collection of rain/grey water and sewage. Complete package including all necessary components, for residential and commercial building applications.



### Top station concept

- A self cleaning pump station design that prevent clogging and odours. TOP is available in GRP material with retrofit as an alternative for old concrete stations.





# IT'S READY FOR 2020 LEGISLATION

Evolution is a process of continual improvement. The Flygt N technology is the market-leading, self-cleaning wastewater pump derived from our 60 years of experience in developing solutions for wastewater applications. It combines high efficiency with superior non clogging qualities. Evolution also means we continuously work on improving the N technology to set new standards for wastewater handling. This is why you always benefit from our history. This is the power of e.





# Waste Water lifting stations



The Lowara Sekamatik series is a comprehensive range of wastewater lifting stations for the collection and pressurization of rain/clean/grey water and sewage for residential and commercial building applications.

Sekamatik lifting stations come all ready as complete units, as they include all necessary components such as tank, pumps, piping and the controls. All you need at once.



## Sekamatik 10

- Ideal for secondary bathrooms/ guest rooms
- Tank volume up to 11 lt
- Max flow 15 m<sup>3</sup>/h
- Max head 17 m
- 1 pump



## Sekamatik 200

- Ideal for secondary bathrooms/ guest rooms
- Tank volume 40 lt
- Max flow 22 m<sup>3</sup>/h
- Max head 14 m
- 1 pump



## Sekamatik 50

- Ideal for complete bathrooms
- Tank volume 46 lt
- Max flow 21 m<sup>3</sup>/h
- Max head 33 m
- 1 or 2 pumps



## Sekamatik 100

- Ideal for complete bathrooms
- Tank volume up to 95 lt
- Max flow 50 m<sup>3</sup>/h
- Max head 15 m
- 1 or 2 pumps



## Sekamatik 300

- Ideal for complete bathrooms
- Tank volume up to 600 lt
- Max flow 60 m<sup>3</sup>/h
- Max head 18 m
- 2 pumps








## Sekamatik 400/800

- Ideal for complete bathrooms
- Tank volume up to 800 lt
- Max flow 200 m<sup>3</sup>/h
- Max head 38 m
- 1 or 2 pumps






# Prefabricated lifting stations.





	 Minibox 85 liters	 Midibox 110 liters	 Singlebox plus 270 liters	 Doublebox plus 550 liters	 Maxibox plus 1900 liters
DOC 3	•	•			
DOC 7	•	•			
DOMO (VX)		•	•	•	•
DOMO GRI					•
DN			•	•	
DL / DLV					•

## The right solution for every application.







### Secondary bathrooms / guest bathrooms

	 Sekamatik 10E 7M	 Sekamatik 10E 15M	 Sekamatik 10E 8M	 Sekamatik 200
Residential sewage	•	•		
Residential sewage also from wall hung sanitary units		•		
Residential grey water	•	•	•	•
Residential grey water, also at high temperature		•		
Rainwater				•

### Complete bathrooms

	 Sekamatik 50	 Sekamatik 100	 Sekamatik 300	 Sekamatik 400/800
• Single-family houses	•	•		
• Installations not requiring a backup pump	1 pump	1 pump		
• 2- and multi-family buildings	•	•		
• Small commercial buildings (offices, small hotels, restaurants, etc.)	2 pumps	2 pumps		
• Commercial buildings (offices, hotels, restaurants etc.)			•	
• Multi-family buildings				•
• Large commercial buildings (shopping malls etc.)				•

### Models

	 Sekamatik 10	 Sekamatik 200	 Sekamatik 50	 Sekamatik 100	 Sekamatik 300	 Sekamatik 400/800
# pumps -	1	1	1 or 2	1 or 2	2	1 or 2
Power (P <sub>2</sub> ) [kW]	0.35 - 1.1	0.18 - 1.1	0.9 - 1.9	1.1 - 2.1	1.7 - 3.3	0.9 - 11.5
Flow max [m³/h]	15	22	21	50	60	200
Head max [m]	17	14	33	15	18	38
Volume Total [lt.]	up to 11	40	46	up to 95	up to 600	up to 800
Delivery port	DN25 / 2"	1 1/4" F	2"	DN 80	DN 80	DN 100
Hydraulic	Open/Grinder	Open	Grinder	Vortex	Vortex	Channel/Vortex



# Fire Fighting



The broad range of Lowara firefighting booster sets conform to EN 12845 for automatic sprinkler systems.

The Lowara fire fighting booster sets GEM series is available with the use of either an electric motor or a diesel engine, depending on the type of water supply needed and the level of reliability required from the system. The booster sets are manufactured using either cast-iron or stainless steel centrifugal end suction pumps, ensuring all fire system application requirements can be met. The modular design of the booster not only keeps installation easy and simple, but also enables each fire set module to be tailored to meet the fire systems specific requirements.

Electric or diesel engine motors can be selected with each module which helps the end user to obtain the correct configuration, ensuring the highest levels of safety and reliability.

A range of accessories are also available, such as a flow meters, reduction suction tapers and alarm panels.

The booster sets also feature either an automatic self-test or automatic shut off feature which allows maintenance of the system to be performed without the need to shut down the system fully.



**GEM...J**  
Single electric service pump module, with jockey pump on board

- Flow: up to 766 m<sup>3</sup>/h
- Head: up to 146 m
- Maximum power output:  
Electric service pump 200 kW
- Horizontal electric service pump: NSCC series
- Vertical jockey pump:  
1SV series version T or 1VM Series
- Maximum operating pressure: 16 bar



**GEM...**  
Single electric service pump module

- Flow: up to 766 m<sup>3</sup>/h
- Head: up to 146 m
- Maximum power output:  
Electric service pump 200 kW
- Horizontal electric service pump: NSCC series
- Maximum operating pressure: 16 bar



**GEMK...**  
Single diesel engine service pump module

- Flow: up to 766 m<sup>3</sup>/h
- Head: up to 146 m
- Maximum power:  
Diesel engine service pump 200 kW
- Horizontal diesel engine service pump: NSC series
- Maximum operating pressure: 16 bar





# IT'S MADE SMART TO BE EASY

In automatic sprinkler systems, trustworthy products are a must. Designed and tested to meet a building's most demanding requirements, Lowara GEN firefighting booster sets deliver water when needed. This is essential. This is the power of e.







# 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](http://xyleminc.com)

## Free Line group

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

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