

# Commercial Building Services

A COMPLETE RANGE OF SOLUTIONS FOR IMPROVED SYSTEM PERFORMANCE



LET'S APPLY THE  
POWER OF **e**

[www.buildings.xylemapplie](http://www.buildings.xylemapplie)



## 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.



dwater.com

# 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.

## 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.



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.

## 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.



## State university library, Moscow, Russia.

**Since 2004 Lowara products serve the 55.000 m<sup>2</sup> building complex with indoor climate and fresh water.**

Heating and cooling: FC pumps. Water supply: SV pumps.



These case studies are just a few examples, find more at [xylem.com](http://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.

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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.

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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.

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No external control panel needed.

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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.

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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.

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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.

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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.**





# ENERGY

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.



# EFFICIENCY

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



## 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



## ecocirc XL Stainless Steel 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



## e-LNE Series

- Single head in-line pumps
- Capacities to 400 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



## 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-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



## 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 315 kW
- Can be equipped with Hydrovar variable speed pump controller



## GS Series

- Fixed speed booster sets with 2-3 pumps.
- Capacities up to 630 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 55 kW/ pump
- Communicate via Modbus



## GV Series

- Variable speed booster sets with a variable speed drive and controller built in the control panel. For 2-6 pumps.
- Capacities up to 750 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 Hydrovars. for 2-4 pumps
- Capacities up to 640 m<sup>3</sup>/h
- Head up to 160 m
- Power up to 22 kW/ pump
- Communicate via Modbus



## 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



EFFECTIVE

**The Lowara e-SV. Everything you require from a vertical multistage pump; high efficiency, robust performance, long life design and large flow and head coverage. This is your opportunity to create more effective boosting systems. This is the power of e.**

# EVOLUTION

**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



## 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.



### D 3000 Series

- Submersible pumps with vortex impellers for high head/ low flow duties
- Capacities up to 47 l/s
- Head up to 28 m
- Power up to 7,4 kW



### N 3000 Series

- Submersible pumps with self cleaning impellers for long time efficient, non clogging wastewater pumping
- Capacities up to 600 l/s
- Head up to 100 m
- Power up to 105 kW



### 6020 Concertor Series

- Wastewater clog-free pumping system with integrated intelligence
- Capacities up to 130 l/s
- Head up to 50 m
- Power up to 7,3 kW



### N&C 3001 Series

- Large submersible pumps with closed channel impellers for very high flow
- Capacities up to 3.300 l/s
- Head up to 100 m
- Power up to 560 kW



### Dry installed pumps

- All Flygt wastewater pumps comes in versions for dry pit installation.



### Top station concept

- A self cleaning pumping station design that prevent clogging and odeurs. The TOP station is available in prefabricated GRP or PE as well as on site built concrete stations.

# 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: NSCC series
- Maximum operating pressure: 16 bar



# ESSENTIAL

**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 a global team unified in a common purpose: creating advanced technology solutions to the world's water challenges. Developing new technologies that will improve the way water is used, conserved, and re-used in the future is central to our work. Our products and services move, treat, analyze, monitor and return water to the environment, in public utility, industrial, residential and commercial building services, and agricultural settings. With its October 2016 acquisition of Sensus, Xylem added smart metering, network technologies and advanced data analytics for water, gas and electric utilities to its portfolio of solutions. 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 with a strong focus on developing comprehensive, sustainable solutions.

**For more information on how Xylem can help you, go to [www.xylem.com](http://www.xylem.com)**



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