



Xylem Lowara

Pulling, Moving and Removing Water
with Efficiency and Reliability

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INTRODUCTION

MOSTRA CONVEGNO EXPOCOMFORT 2016

Welcome

Welcome to the Xylem stand at Mostra Convegno Expocomfort 2016 in Milan, Italy. Over 2,300 leading companies from around the world, will be in attendance at the show, displaying best-in-class products and solutions for HVAC, renewal energy market, residential and industrial installations.

With a completely new stand design, covering 220 sqm, we'll have a strong presence at the show - with a couple of surprises along the way. A virtual trade show will be available on line for those of you that are not able to personally attend (www.lowara.com).

Xylem is a global leader in water technology across both clean and wastewater applications, and operates in over 150+ countries.

Xylem is a single company with multiple brands, all focused on solving the most challenging water issues in multiple industries. Our aim is to approach the market as one entity, dedicated to the best products, application expertise and aftersales support for customers, across all of our core markets within Europe, the Middle East, India, Russia and Africa.

Xylem manufactures a range of products which touch on numerous parts of the building and manufacturing processes. We felt the time was right to bring all of the brands into one single organisation offering customers one contact for all applications. For example, it is entirely possible that a Lowara pump is pumping clean water into the manufacturing process and a Flygt pump is being used to pump wastewater at the other end.

Our customers.

For our customers, our unified approach under the Xylem brands means that they will have one single point of contact. Whereas before they may have had to liaise with a brand representative for each Xylem product used on a project, from now on, all contact will be centralised to make communication much easier. There will be one person with one voice, but with the full support of an array of technical experts behind them.

This new approach allows us to offer customers comprehensive technical advice which draws on the experience and expertise of our technical specialists. The in-depth knowledge we now collectively possess stretches far across the building and manufacturing processes, which means we can consult on an installation within the wider project team and highlight issues which may not have occurred to our customers.

Energy is the largest cost of running any pump, with the biggest potential savings. Xylem VSDs work with your system to make it efficient. Our intelligent variable speed drive controls the pump exactly according to the current requirements of the user. Compared to an unregulated system, VSDs could save up to 70% of the energy consumption. Smooth, optimal operation increases not only the efficiency but also the life of the system's components and reduces maintenance costs.



VARIABLE SPEED DRIVES



Hydrovar

The 5th generation takes HYDROVAR to a new level of robustness, safety, security and performance.

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

www.hydrovar.com



Lowara e-SM (SMART)

Xylem Lowara's most energy-efficient 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 / CO₂ / 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)

Wi-Fi controlled as option

Compact design

Single phase input

Sensorless version for e-LNE pump



Xylem Learning Center (XLC)

There are people who do, and people who teach.
We do both!

New for 2016, 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.



Facilities:

- Classrooms for up to 70 students
- Interactive, working demonstration units of pumping equipment and controls
- Demonstration classroom for students to install and troubleshoot numerous pumps and controls
- Classes include a factory tour of a Xylem manufacturing site
- Disabled access-friendly venues
- State of the art audio/visual equipment

www.lowara.com/training



Xylem Learning Center

From schools to skyscrapers, Xylem is building a better tomorrow. As the world's population grows and more buildings are constructed, so does the demand for clean water.

Residential and commercial buildings are responsible for an enormous amount of energy consumption – more than 20% of all energy used. In both water and HVAC systems, Xylem has applied innovative thinking to make these systems more efficient and to make buildings more comfortable, productive and healthy.



HVAC



Circulators.

High efficiency circulators range for many applications including heating, air conditioning systems and hot water.

ecocirc XL & ecocirc XLplus

Engineered to be 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.

Pressure control, speed regulation, temperature control and consumption monitoring make the ecocirc XL a leader in energy efficiency.

- Low power consumption
- Easy to install and start up, requiring no advanced programming
- Standby operation saves energy during idle times
- User-friendly interface with digital display
- Multiple operating modes adapt to real-life situations
- Control panel with push buttons to change circulator status
- Operating status visualization
- Warning and alarm visualization
- Errors visualization
- Dry running detection & protection
- Multi-pump functions
- Air purge
- Insulation shell with single head pumps for heating systems

**CAPACITIES UP TO
62 m³/h**

**HEAD UP TO
18 m**



In-line dry rotor centrifugal pumps.

In-line centrifugal pumps with cast iron pump available in single and twin configurations. Suitable for handling hot or cold moderately aggressive liquids.

**CAPACITIES UP TO
800 m³/h**

**HEAD UP TO
100 m**

**POWER UP TO
1.1 kW - 37 kW (2 POLE)
0.25 kW - 37 kW (4 POLE)**



e-LNE and e-LNT

- Full cast iron in line pump
- Standard PN16 operating pressure
- Standard 140°C liquid temperature
- Standard EPDM mechanical seal
- Bronze impeller available as option
- Equipped with Hydrovar
- Hydraulic ErP 2015 compliant (MEI > 0,4)
- IE3 Motor efficiency, ErP 2017 compliant
- Energy management thanks to HYDROVAR / e-SM drive
- Wide material selection
- Reduced life cycle cost
- Total cost ownership
- Easy installation and maintenance
- Longer lifetime

Xylem Lowara has recognised the demands of the HVAC market and has committed to support the selection, specification, sales and service of equipment to end users, consultants, contractors and facilities management professionals across the HVAC industry.

COMMERCIAL BUILDING SERVICES

Lowara e-NSC

Lowara e-NSC series is a range of heavy duty end suction pumps aimed at the Industrial and Building Services market. The e-NSC series has been designed to offer end-users the most energy-efficient solution possible. It has a Minimum Efficiency Index (MEI) well above the level required by the ErP Directive's 2015 update - and uses IE3 motors, which require very low operation costs, offering long-term economic benefits for the end-user.

When combined with Xylem's Hydrovar pump controller, the pump speed can be reduced by 50 per cent to save as much as 82.5 per cent of power consumption when compared to a traditional pump. Given the scale of many commercial and industrial heating systems, this can significantly reduce a building's energy costs without impacting on system performance.

To cater for the varying needs of the Industrial Building Services market, Lowara's e-NSC end suction pump is available in six different sizes ranging from DN100 to DN300, and has pump a flow of up to 1,800 m³/h. With a head of up to 120m the e-NSC series can perform to a maximum pressure of 16 bars and pump water ranging from -20°C to +140°C. An extended temperature version is also available which can transport water from -40°C up to +180°C. The e-NSC range also incorporates a number of innovative features including mechanical face seal options to eliminate leakages, and will be available in different materials - from cast iron to duplex stainless steel - to cater for any liquid which may need to be pumped. It is suitable for a variety of applications, including: water transport, hydronic heating and chiller systems, fire systems.

CAPACITIES UP TO
1800 m³/h

HEAD UP TO
160 m

POWER UP TO
1.1 kW - 75 kW (2 POLE)
0.25 kW - 315 kW (4 POLE)



Lowara e-SH

The Lowara e-SH centrifugal pumps are designed to transfer hot, cold and moderately aggressive liquids. The range is manufactured from stainless steel and meets all EN 733 - DIN 24255 standards.



CAPACITIES UP TO
240 m³/h

HEAD UP TO
110 m

POWER UP TO
0.75 kW - 75 kW (2 POLE)
0.25 kW - 11 kW (4 POLE)



BOOSTER: The Lowara GHV series booster sets are fully automatic booster sets for water supply. They are equipped with 1-4 variable speed pumps with a Hydrovar pump controller, pressure transmitters and control panel, all mounted on a frame for easy installation.

FIREFIGHTING: The GEM series firefighting booster range is available in a modular system that's fully compliant with the EN12845 standard for automatic sprinkler systems and the UNI 10779 standard for hydrant systems.

PRESSURE BOOSTING & FIREFIGHTING

NEW



GHV

Booster.

The Lowara GHV series booster sets are fully automatic booster sets for water supply. They are equipped with 2-4 variable speed pumps with a Hydrovar pump controller, pressure transmitters and control panel, all mounted on a frame for easy installation. Fitted with the new Hydrovar pump controller, GHV is easy to program, designed for maximum energy efficiency and can communicate with a BMS system via Modbus or BACnet.

**CAPACITIES UP TO
640 m³/h**

**HEAD UP TO
160 m**

**POWER UP TO
22 kW**

GEM

Firefighting.

The GEM series firefighting booster range is available in a modular system that's fully compliant with the EN12845 standard for automatic sprinkler systems and the UNI 10779 standard for hydrant systems. Xylem configures all modules as a single unit containing a pump which can be either electric or diesel according to your needs. Each one includes all its main components and is connected and assembled in the factory in accordance with EN12845 standards. The correct water supply is obtained by using a combination of modules – either single, superior single, twin or combined according to your needs – to the EN12845 standard for firefighting systems.



**CAPACITIES UP TO
766 m³/h**

**HEAD UP TO
160 m**

**POWER UP TO
200 kW**

Working from decades of experience in producing both industrial and commercial pumping solutions, Xylem brings to the market an extensive portfolio of innovative solutions for residential applications; products such as domestic & hot water circulators, condensate removal units, underfloor mixing modules, booster sets, submersible drainage and sewage products.



RESIDENTIAL



Sekamatik

Sekamatik series is a range of grey / rain water or sewage lifting stations ideal for larger private or public buildings. Motor power up to 11.5 kW with capacities up to 200 m³/h and storage tanks are available in plastic with volumes from 180 up to 800 liters. The compact design allows an installation with minimum space requirement.

Sekamatik 10 E 7M is a compact behind the toilet pumping station with cutter pump. Install a toilet anywhere, typically without any major construction.

DISCHARGE
1" (DN25)

DELIVERY UP TO
4.3 m³/h

MAX HEAD UP TO
6.5 m

SUPPLY VOLTAGE
220/1/50 Hz

Typical applications.

This domestic lifting station can be used where the standard size pipework is not possible and is ideal where any toilet needs to be fitted such as under stairs, in cellars, loft extensions or below the sewer level or where a gravity flow is not possible. This unit connects to any standard size toilet fitting and uses a standard 1" discharge pipe and can be installed with minimum construction work.

Features.

- Integrated pump cutter system allowing the use of DN25 discharge pipework
- Compact design
- Easy installation
- Odour-tight plastic collection tank
- Reliable cutter system
- Easy maintenance
- Integrated thermal switch that protects motor from overheating
- Built in air vent with activated carbon filter



DOC

DOC pumps are versatile, corrosion-resistant and compact. Three basic versions are available with 0,25 to 0,55 kW power. Submersible pumps for drainage of clean or dirty water.

The new DOC GW is ideal for applications where limited space is available in the sump, also with presence of debris in the water.

Typical applications.

Emptying of residential sump pits, rainwater tanks or laundry drainage. Garden or lawn irrigation, emergency drainage of flooded basements or garages. Transfer of water from tanks.



CAPACITIES UP TO
14 m³/h

HEAD UP TO
11 m

POWER UP TO
0.55 kW

SOLIDS HANDLING
10 mm OR 20 mm

SUPPLY VOLTAGE
220/1/50 Hz

Water flows through every human need. Xylem specializes in providing equipment and services for water supply and distribution. We offer a broad portfolio of products to supply water to residential, commercial and industrial users.



WATER SUPPLY



Lowara e-GS

The Lowara e-GS series compliant with directive 2009/125/EC, designed for 4" wells, is available in 50 and 60 Hz versions. Its compact and robust design ensures high corrosion resistance and long-lasting performance, ideal for use in irrigation systems, pressure boosting and fountain applications.

Features & benefits.

- Compact
- Abrasion resistant
- All components are FDA compatible
- Eco Designed compliant to directive 2009/125/EC (ErP 2015)
- Reliable and high sand resistance (150 g/m³)
- Accurate alignment with motor
- High mechanical resistance
- Low friction loss
- Easy replacement
- Floating impeller design
- Frontal wear ring
- Robust and remarkable casing thickness
- AISI 304 SS check valve, seat & motor adaptor
- Plug and play version solutions as packages

Applications.

General purpose / Residential / Agricultural /
Water supply / Irrigation systems /
Pressure boosting / Fire fighting / Fountains

CAPACITIES UP TO
22 m³/h

HEAD UP TO
340 m

POWER UP TO
0.37 kW TO 7.5 kW



Lowara Scuba

The Lowara Scuba series is a 5" close-coupled submersible pump. It's the ideal choice for primary water supply in tanks or reservoirs, sprinkler irrigation systems and pressure boosting for tanks or wells.

CAPACITIES UP TO
7.5 m³/h

HEAD UP TO
80 m

POWER UP TO
0.55 kW TO 1.1 kW



Lowara ResiBoost

Clever and simple, ResiBoost is a variable speed drive inverter for constant pressure systems. ResiBoost automatically controls the speed of the pump while keeping the pressure in the system constant in relation to the signal of the electronic pressure transmitter.

The ResiBoost is specially designed for maintaining constant pressure independent of flow for maximum comfort. Energy saving is the result of the precise speed control. Top quality components guarantee high reliability and a trouble-free life. The inverter has inbuilt protection against various system and electrical faults. Smooth operation and soft starting ensure silent running and an extended pump life. With pipe or wall mounted versions together with ready built, the quick set up means easy installation.

CAPACITIES UP TO
7.2 m³/h

HEAD UP TO
65 m

POWER UP TO
1,5 kW 1~ PHASE
2,2 kW 1~3 PHASE



Pump mounted version.

Turns a fixed speed pump to a variable speed.

- Easy to set up and operate, just select the required pressure "Plug and Play"
- Built-in dry run protection
- Compact design
- Built in pressure transducer with digital indicator
- Control and panel with LCD display
- Stored information of operated hours, number of starts, connections to the power supply, register of alarms
- Built in protection of over current, incorrect supply voltage and short circuit



Wall mounted version.

Wall mounted Variable speed pump driver. Single or three phase pumps.

- Control and information panel with LCD screen
- Cooling by natural or forced convection depending on model
- Aluminum heat exchanger
- 4-20 mA, 0-10 Bar external pressure transducer supplied (0-16 bar supplied as option)
- Stored information of operated hours, number of starts, connections to the power supply, register of alarms
- Automatic restore system in case of water or power supply failure
- Built-in dry run protection
- Electronic input for detection of water level in tank; this system is independent of the dry run protection

Find your ResiBoost solution.

e-HM



Scuba



VM



GS



BG





Q-Smart

Q-SMART is a single phase electronic control panel for 1 or 2 pump control with options for controlling booster or sewage applications, and with LED display allowing maximum flexibility to your systems. Can manage more than 50 different pumping applications.

Q-SMART 10: One pump control

Q-SMART 20: Two pump control

Specifications.

- Built-in overload circuit breaker(s)
- For fixed speed pump control
- In case of control board failure, pumps can still be operated
- Power size up to 1.5 kW (power output for pump up to 12A)
- 5 digital inputs for pressure switch or floats, external on/off,min/max pressure/level alarms, 1 analogue input for sensor, 5 inputs for sewage app probes
- Illuminated coloured LED status lights
- 4 push button key pad
- Alarm log
- Auto test facility
- Pump rotation option
- Real time clock with hour counter



Wedeco Aquada

Aquada UV.

Eliminate bacteria in your drinking water. Xylem offers Wedeco UV disinfection systems to meet your highest expectations for water quality.

Available in five models, flows up to 28 m³/h.

Applications.

The Aquada UV system is suitable everywhere that drinking water is taken from its own sources or the quality from public networks is no longer sufficient for your own needs. Moreover, it is used in residential treatment plants for disinfection of rainwater, in process water circulations, aquarium or private swimming pools, ventilation and airconditioning, fountains and water attractions. Aquada UV systems can be integrated into existing water pipeline systems without a great deal of effort.





Lowara 1300

The new Lowara branded wastewater pump range for commercial building services.

Lowara's new range is a series of submersible pumps that delivers pure performance at outstanding value. Combining performance and quality in a convenient, value for money package, these pumps will help ensure the smooth running and profitability of your operation, making them ideal pumps for sewage and surface wastewater within municipal and commercial building applications. The range is based on technology developed and tested around the globe in tough conditions and environments, enabling you to count on these pumps for trouble-free, reliable operation. Their hydraulic design has been proven to reduce clogging and maintain efficiency.

CAPACITIES UP TO
414 m³/h

HEAD UP TO
63 m

POWER UP TO
18 kW

Benefits.

- A non-clogging pump that lowers unplanned maintenance costs
- Standardized offer, easy to select and buy.
- Value for money
- Robust
- Powerful
- Durable
- Efficient solids handling capability

Non clogging.

- Non-clogging hydraulics: the pump maintains a high level of pumping efficiency with lower energy consumption thanks to the auto-cleanse impeller design
- Vortex hydraulics: In case of limited flow, a vortex impeller is the best choice. A vortex impeller is also suitable in media containing sand and other abrasive solids

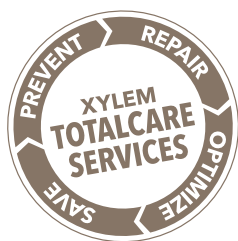




Because Every Drop Counts

Xylem Watermark is Xylem Inc.'s corporate citizenship and social investment program, created to provide and protect safe water resources in communities around the world. Xylem works with leading international non-profits organizations to provide water with community-based and emergency response projects, and to protect water resources through disaster risk reduction efforts. For more information please visit:

www.xylemwatermark.com



Xylem TotalCare is a comprehensive, integrated portfolio of services that ensures your business keeps running at its best. Our portfolio comes backed by deep systems knowledge and expertise in water and wastewater applications. Xylem TotalCare gives you operational security and more time to focus on your core business.

Our brands

Xylem offers five market-leading brands that primarily serve the municipal and industrial markets with regard to the movement and treatment of water and wastewater. The Flygt, Godwin, Leopold, Sanitaire and Wedeco brands are all market leaders, each investing heavily in research and development to bring you highly efficient and effective products.

Our people

We have a team of knowledgeable, professional and highly skilled staff, who pride themselves on their ability to help customers optimize their business by providing the right solution every time.

Solutions expertise

Access the deep system expertise and know-how built into Xylem product brands to ensure they're always performing at their best. Our standardized service packages let you use our service and support on your terms.

Select the service level you need

Our standardized service packages meet your every need - from the very basic to the advanced. The more basic the service, the easier it is on your budget. The more advanced it is, the greater your peace of mind will be.

Reliable service

Our global expertise and local presence means you can rely on us as your trustworthy partner. We assure prompt service delivery worldwide. With Xylem TotalCare services, you're just one phone call away from integrated service and support that you won't find anywhere else.

For further information please visit our website: www.xylemtotalcare.com

Products available in the Xylem Lowara portfolio.



The complete
Xylem brand offering.

Xylem is now offering a single
network of sales and service to
provide you the best customer
experience.

Our mission is to be
the best provider of complete
fluid handling solutions.

AANDERAA

AC FIRE
PUMP

Bell & Gossett

BS Bellingham
+ Stanley

-ebro-

FLOJET

FLOWTRONEX

FLYGT

Global Water

godwin

GOULDS
WATER TECHNOLOGY

JABSCO

LEOPOLD

LOWARA

McDonnell & Miller

mjk

O-I Analytical

PCI
MEMBRANES

RED JACKET
Water Products

ROYCE
TECHNOLOGIES

rule

SANITAIRE

SI Analytics

SonTek

Standard Xchange

Water
Equipment
Technologies

WATER LOG

WEDECO

WTW

YSI



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 innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and reused 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 xylem.com



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