Product Portfolio

LOWARA PROVIDING PUMPING PRODUCTS AND SYSTEMS

LOWARA
a xylem brand

One Xylem

We are united in our focus to be the leading global technologies and applications.

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

Xylem is a single company with multiple brands, all focussed on solving the most challenging water issues in multiple industries. Our aim is approach the market as one entity, focused on 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.

What's more, if the plant is producing a large amount of wastewater it is highly likely that a Wedeco ultraviolet or ozone treatment solution is being used before discharge into the water course. Now that customer can deal with one organisation for all their needs.
The brands and their heritage will remain, but we will go to market as one company, Xylem.

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.

Our services.

Xylem has always prided itself on offering exceptional levels of service and support to customers across all of our brands.

Our staff.

The knowledge and expertise of our staff is one of our most important assets and we are constantly continuing our investment in training and development. For instance, all of our customer-facing people are being required to go through a comprehensive training programme covering everything from pump and pumping system basics, through to the technology behind variable speed drives.

provider of efficient and sustainable water

The importance of training can be demonstrated by the dynamics of our markets. The transportation, treatment and use of water, be it in the municipal or building services sector is now highly regulated. Environmental efficiency standards, such as the ErP Directive, have placed strict control on the types of pumps that can be manufactured and marketed to end-users, regardless of whether those end-users are operating a sewage pumping station or a modern office block.

Our biggest opportunities.

One of our big focuses is our ecocirc XL circulator pump. It builds on the technological advancements we made with our original domestic ecocirc, but is designed to be used within the industrial and commercial marketplace. It is a symbol of various parts of Xylem EMEIA combining to create a product that can be used by a variety of end-users across several of the company's key markets.

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.

We span the entire water cycle

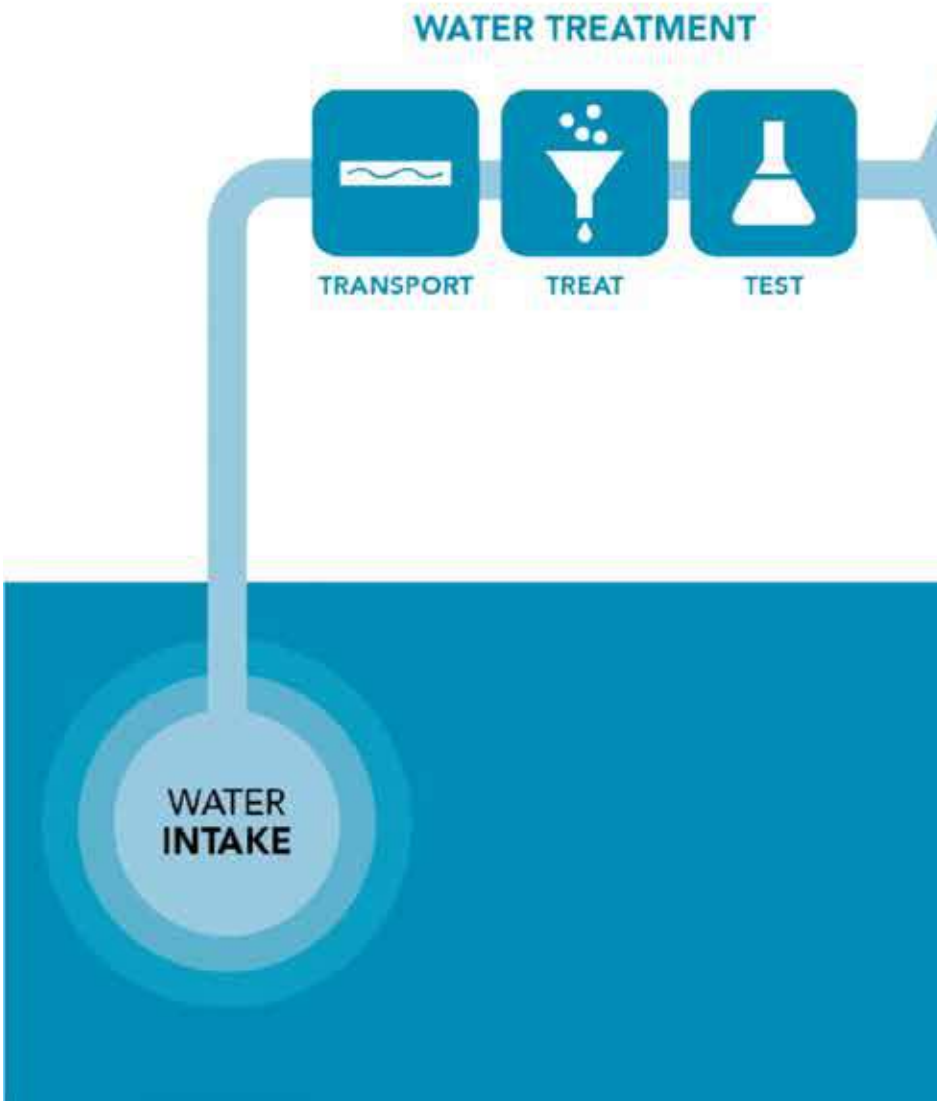
Our industry includes thousands of small companies, none of which have the breadth, scale or experience to address challenges across the complete water cycle. From water treatment – to end-use consumers – to wastewater treatment – the singular pure-play exception is Xylem.

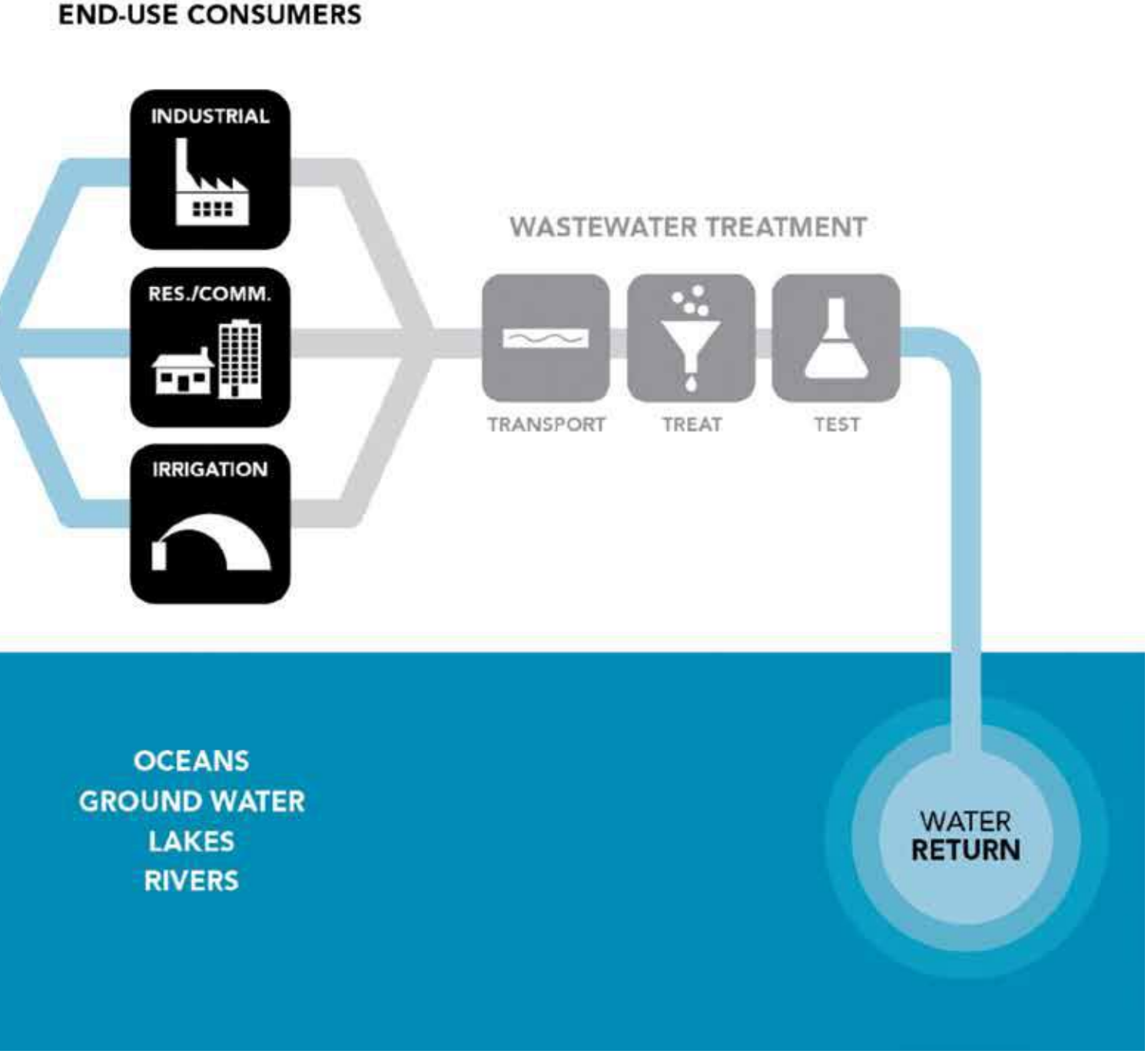
Our involvement in the water cycle can be broken down into two parts – Water Infrastructure and Applied Water.

When we talk about Water Infrastructure – which encompasses 60 percent of our business – we are talking about helping customers collect water from a source and distribute it to users, and then helping them clean wastewater and return it back to the environment. This involves three closely linked applications – transport, treatment and testing – for two types of customers: public utilities and industrial facilities.

When we refer to Applied Water – which accounts for the other 40 percent of our business – we are focused on all the applications – or uses – of water in our daily lives. The customers here come to us for solutions in three major categories: residential and commercial building service applications, industrial applications, and irrigation and agriculture applications.

Having a huge footprint throughout the water cycle gives us a balanced portfolio and presents opportunities for us to create solutions for customers no matter where they are in this loop.




END-USE CONSUMERS
INDUSTRIAL
RES./COMM.
IRRIGATION
WASTEWATER TREATMENT
TRANSPORT
TREAT
TEST
OCEANS
GROUND WATER
LAKES
RIVERS
WATER
RETURN

And here comes Lowara ....a xylem brand

Founded in 1968 and based in Montecchio Maggiore, near Vicenza in Italy, Lowara has been serving customers and users of hydraulic pumps in various sectors for almost 50 years. In 1986 Lowara was purchased by Goulds Pumps Inc. of Seneca Falls, USA.
The purchase in 1997 of Goulds Pumps Inc. by ITT Industries made Lowara one of the world's largest pump manufacturing group. In 2011 Xylem completed its spinoff from ITT Corporation, and began a new chapter as a leading global water technology company.

Innovation has always been one of Lowara's distinctive characteristics, as the offer of quality needs to be maintained and developed over time. Lowara invests economic, human and technological resources in training and research in order to ensure continuous improvements of its products and processes.
Lowara uses the most advanced research, design and industrial engineering to enhance its global capabilities.
This provide efficient and reliable products, services and solutions for the water supply and water pumping needs in the residential, irrigation, building services and commercial markets worldwide.
Lowara holds a comprehensive stock and manufacturing facilities thus enabling a fast and efficient response to customer's needs.

Applications.

The Lowara offer is a complete range of pumps for residential and commercial building services, agriculture, industrial and public utilities applications. In Building services, Lowara produces pumps for pressurization, conditioning, fire-fighting systems, wastewater lifting stations and dewatering.
In irrigation, Lowara produces pumps for agriculture applications, irrigation of gardens and parks. In public utilities, Lowara is committed on drinking water process, on water treatment, and district heating. In industry, Lowara products are used in a wide range of applications from washing equipment and chillers, to heavy industry such as oil & gas, mining, power generation and steel mills.

You Can Trust Us.

Lowara pumps 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.

Burj Khalifa, Dubai, UAE.

Burj Khalifa opened in 2010. Xylem special designed variable speed booster sets distribute 1000 m^3 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.

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.

State university library, Moscow, Russia.

Since 2004 Lowara products serve the 55.000 m^2 building complex with indoor climate and fresh water.

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

Municipal water supply, Tulln, Austria.

Xylem provided the booster pumps for the grid and the submersible borehole pumps.

Completely automatic Pumpstation with Hydrovar controlled booster and submersible pumps.

End suction single stage centrifugal pumps.

The centrifugal range is the largest available within the Lowara portfolio and covers a multitude of applications. The Lowara single-stage end-suction products range has a large hydraulic coverage; supported by diverse seal arrangements and material options to satisfy pumping needs from potable water to water with aggressive chemicals.
As mandated by the European Union, the applicable series are compliant with the ErP Eco-design directives.
Variable speed pumping is available with the addition of the Hydrovar (see page 18).

P-PSA-PK SERIES
peripheral pumps

	50 Hz	60 Hz
Capacities up to	3.72 m³/h	3.9 m³/h
Head up to	82 m	83 m
Powers up to	1,1 kW	1,1 kW

SP SERIES
self priming pumps

	50 Hz	60 Hz
Capacities up to	2.75 m³/h	2.7 m³/h
Head up to	49 m	46 m
Powers up to	0.75 kW	0.75 kW
Suction head to	7 m	7 m

CEA-CEAN SERIES
CA-CAN SERIES
closed impeller
pumps (AISI 316)

	50 Hz	60 Hz
Capacity up to	31 m³/h	32 m³/h
Head up to	62 m	46 m
Power up to	3 kW	3 kW

Various seals options available

BG SERIES
self priming pumps

	50 Hz
Capacity up to	4.2 m³/h
Head up to	53 m
Suction head to	8 m
Power up to	1,1 kW

CO SERIES
open impeller
stainless steel
pumps (AISI 316)

	50 Hz	60 Hz
Capacity up to	54 m³/h	54 m³/h
Head up to	24 m	24 m
Power up to	3 kW	3 kW

SHO SERIES
open impeller
pumps (AISI 316)

	50 Hz
Capacity up to	53 m³/h
Head up to	50 m
Power up to	11 kW

e-NSCE SERIES
Closed impeller
pumps, extended
shaft
According to EN 733

	50 Hz	60 Hz
Capacities up to	130 m³/h	181 m³/h
Head up to	100 m	100 m
Powers up to	22 kW	22 kW
Temp	-25°C to +140°C	

Various materials and seals options available

e-NSCS SERIES
Closed impeller pumps, stub shaft
According to EN 733

	50 Hz	60 Hz
Capacities up to	1300 m³/h	967 m³/h
Head up to	160 m	141 m
Powers up to	90 kW	90 kW
Temp	-25°C to +140°C	-25°C to +140°C

Various materials and seals options available

e-NSCF/C SERIES
Closed impeller pumps, frame mounted (elastic or spacer coupling)
According to EN 733

	50 Hz	60 Hz
Capacities up to	1800 m³/h	2200 m³/h
Head up to	160 m	155 m
Powers up to	315 kW	400 kW
Temp	-25°C to +140°C	-25°C to +140°C

Various materials and seals options available

e-SHE-SHS-SHF SERIES
Full stainless steel (AISI 316) pumps: extend shaft, stub shaft and frame mounted

	50 Hz	60 Hz
Capacity up to	240 m³/h	240 m³/h
Head up to	110 m	115 m
Power up to	75 kW (extended shaft version up to 22 kW)	75 kW
Temp	-30°C to +120°C	-30°C to +120°C

Various materials and seals options available

LSB SERIES
Single stage end suction pump in close coupled (block) design

	50 Hz
Capacity up to	450 m³/h
Head up to	150 m
Temperature	140°C
Size	DN 25-150

Various materials and seals options available

LSN SERIES
Closed impeller pumps
frame mounted (elastic or spacer coupling)
According to ISO 5199

	50 Hz
Capacity up to	450 m³/h
Head up to	150 m
Temperature	140 °C standard (180°C extended temp available)
Size	DN 25-150

Various materials and seals options available

LS SERIES
Closed impeller 16 bar pumps frame mounted
According to ISO 5199

	50 Hz
Capacity up to	4600 m³/h
Head up to	100 m
Temperature	180°C
Size	DN 150-600

Various materials and seals options available

LC/LCP SERIES
Closed impeller 25 bar pumps frame mounted
According to ISO 5199

	50 Hz
Capacity up to	4600 m³/h
Head up to	100 m
Temperature	180°C
Size	DN 150-600

Various materials and seals options available

Circulators.

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

ecocirc SERIES XL and XLplus high efficiency wet rotor circulators

	50 Hz
Capacities up to	70 m³/h
Head up to	18 m
Maximum	10 bar
pressureTemp	-10°C to +110°C

ecocirc PREMIUM SERIES high efficiency wet rotor circulators

	50 Hz
Capacities up to	3,2 m³/h
Head up to	6 m
Maximum pressure	10 bar
Temp	-10°C to +110°C

TLCN-TLCHN Wet rotor circulators for sanitary systems

	50 Hz / 60 Hz
Capacities up to	12 m³/h
Head up to	12 m
Maximum pressure	10 bar
Temp	+2°C to +110°C (recommended up to 65°C)

ecocirc BASIC SERIES high efficiency wet rotor circulators

	50 Hz
Capacities up to	3,2 m³/h
Head up to	6 m
Maximum pressure	10 bar
Temp	-10°C to +110°C

TLC-TLCH* SERIES wet rotor circulators

	50 Hz
Capacities up to	12 m³/h
Head up to	12 m
Maximum pressure	10 bar
Temp	-10°C to +110°C

ecocirc PRO SERIES wet rotor circulators for sanitary systems

	50 Hz
Capacities up to	1 m³/h
Head up to	3 m
Maximum pressure	10 bar
Temp	+2°C to +65°C

* Only for Extra EEA Countries.
EEA means: European Economic Area = European Union + 3 of 4 Member States of EFTA European Free Trade Association = EU 27 + Iceland + Liechtenstein + Norway. Swiss, Turkey and Croatia have to be added to EEA list of countries for the observance of the same regulations.

In-line dry rotor centrifugal pumps.

In-line centrifugal pumps with cast iron pum available in the single and twin configurations. Suitable for handling hot or cold moderately aggressive liquids.
With wide options both in terms of impeller material and mechanical seals, the e-LNE/LNT is the right solution for 1000's of liquids.
Variable speed pumping is available with the addition of the Hydrovar (see page 18).

e-LNEE SERIES
Extended shaft

	50 Hz	**60 Hz**
Capacities up to	300 m³/h	250 m³/h
Head up to	100 m	98 m
Powers up to	22 kW	22kE
Temp	-25°C to +140°C	-25°C to +140°C

e- LNES SERIES
Stub shaft in-line pumps

	50 Hz	**60 Hz**
Capacity up to	400 m³/h	1000 m³/h
Head up to	100 m	137,5 m
Power up to	37 kW	90 kW
Temp	-25°C to +140°C	-25°C to +140°C

e-LNTE- LNTS SERIES
Extended shaft and stub shaft in-line twin

	50 Hz	**60 Hz**
Capacities up to	800 m³/h	439 m³/h
Head up to	100 m	110 m
Powers up to	37 kW	45 kW
Temp	-25°C to +140°C	-25°C to +140°C

Multi-stage pumps.

Lowara has an extensive range of multi-stage products that start with the Lowara SV standard product through to the TDB range which are available in various materials including stainless steel, bronze and various iron options.
Unique products within this range include the High Pressure e-SV system and a multi-outlet pump used in fire set applications.
Variable speed pumping is available with the addition of the Hydrovar (see page 18).

e-SV™ SERIES
vertical multistage pumps

The range of pumps features 11 models and can be specially configured for a wide range of applications.

	50 Hz
Capacity up to	160 m³/h
Head up to	330 m
Power up to	55 kW
Temp	-30°C to +120°C (high temp versions up to 180°C)

	60 Hz
Capacity up to	160 m³/h
Head up to	280 m
Power up to	55 kW
Temp	-30°C to +120°C (high temp versions up to 180°C)

e-HM™ SERIES
horizontal multistage pumps

	50 Hz / 60 Hz
Capacity up to	29 m³/h
Head up to	160 m
Power up to	5,5 kW

SVI SERIES
immersible vertical multistage pumps

	50 Hz	**60 Hz**
Capacity up to	160 m³/h	160 m³/h
Head up to	330 m	280 m
Power up to	55 kW	55 kW
Temp	-10°C to +90°C	

VM SERIES
High efficiency close-coupled vertical multistage pumps equipped with non-standard Lowara motors

	50 Hz	**60 Hz**
Capacity up to	14 m³/h	17 m³/h
Head up to	98 m	106 m
Power up to	3 kW	4 kW
Max temp to	up to +90°C	

e-MP NEW
Horizontal and vertical multistage pumps

	50 Hz	60 Hz
Capacity up to	850 m³/h	600 m³/h
Head up to	950 m	900 m
Temp	140°C (optional up to 180°C)	
Size	DN 40-125	

MP
Horizontal multistage pump with closed, radial type impellers and roller bearings on both ends

	50 Hz	60 Hz
Capacity up to	340 m³/h	360 m³/h
Head up to	500 m	500 m
Temp	140°C	140°C
Size	DN 40-125	

MPA
Thrust bearing at drive side and medium lubricated slide bearing on suction side

Inducer optional

	50 Hz	60 Hz
Capacity up to	340 m³/h	360 m³/h
Head up to	500 m	500 m
Temp	140°C	140°C
Size	DN 40-125	

MPB/TDB
Vertical multistage pump with closed, radial type impellers in close coupled (block) design

	50 Hz	60 Hz
Capacity up to	200 m³/h	240 m³/h
Head up to	500 m	500 m
Temp	140°C	140°C
Size	DN 40-125	

MPV/TDV
Vertical multistage pumps

	50 Hz	60 Hz
Capacity up to	340 m³/h	360 m³/h
Head up to	500 m	500 m
Temp	140°C	140°C
Size	DN 100-125	DN 40-125

MPE
Horizontal multistage pump with bearings on both ends. Thrust balancing and seal pressure reduction by balancing drum.

	50 Hz	60 Hz
Capacity up to	300 m³/h	320 m³/h
Head up to	850 m	850 m
Temp	140°C (optional up to 180°C)	
Size	DN 100-125	

P / MP 300
Horizontal multistage pump with bearings on both ends

	50 Hz	60 Hz
Capacity up to	1800 m³/h	1200 m³/h
Head up to	300 m	300 m
Temp	140°C	140°C
Size	DN 80-300	DN 80-250

PVa
Vertical multistage pump with closed, radial type impellers

	50 Hz	60 Hz
Capacity up to	850 m³/h	1000 m³/h
Head up to	300 m	300 m
Temp	140°C	140°C
Size	DN 80-200	

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.

DOC SERIES cellar drainage pumps

	50 Hz	60 Hz
Capacity up to	14 m³/h	13,2 m³/h
Head up to	11 m	11 m
Power up to	0,55 kW	0,55 kW
Solids up to	20 mm	

DL SERIES wastewater/ sewage pumps

	50 Hz	60 Hz
Capacity up to	42 m³/h	42 m³/h
Head up to	21,9 m	22 m
Power up to	1,5 kW	1,5 kW
Solids up to	50 mm	

DOMO SERIES wastewater/ sewage pumps

	50 Hz	60 Hz
Capacity up to	40 m³/h	40 m³/h
Head up to	14,5 m	14,5 m
Power up to	1,5 kW	1,5 kW
Solids up to	50 mm	

DOMO GRI SERIES sewage pumps with grinder device

	50 Hz	60 Hz
Capacity up to	6,6 m³/h	6,6 m³/h
Head up to	25 m	29 m
Power up to	1,1 kW	1,1 kW

DIWA SERIES drainage pumps

	50 Hz	60 Hz
Capacity up to	25 m³/h	25 m³/h
Head up to	21 m	20 m
Power up to	1,5 kW	1,5 kW
Solids up to	8 mm	

DN SERIES drainage pumps

	50 Hz	60 Hz
Capacity up to	16,8 m³/h	18 m³/h
Head up to	22 m	21 m
Power up to	0,75 kW	0,8 kW
Solids up to	5 mm	

Lowara
1300 SERIES
Wastewater /
sewage pumps
in cast iron with
non-clog or vortex
impeller

50 Hz

Capacity up to	414 m^3/h
Head up to	63 m
Power up to	18 kW
Temp	up to +40°C

BOX SERIES
prefabricated
lifting stations

Minibox
Midibox
Singlebox Plus
Doublebox Plus
Maxibox Plus

Volume	up to 1900 liters
Pumps	1 or 2

SOS FLOODKIT
For flooded
basements and
garages

Pump type DOC 3 with
10 metres cable

Can be used in or
outside the box.

Submersible borehole pumps.

The Lowara borehole range offers products ranging in pump diameters from 4" to 12". Various material options are available including cast iron and various grades of stainless steel. In addition to the products shown, Lowara can offer alternative mounting options of this range including cooling shrouds and pressure shrouds.

e-GS SERIES
4" borehole pumps

	50 Hz	60 Hz
Capacity up to	21 m^3/h	22 m^3/h
Head up to	340 m	300 m
Power up to	7,5 kW	7,5 kW

Z6 SERIES
6" borehole pumps

	50 Hz	60 Hz
Capacity up to	78 m^3/h	90 m^3/h
Head up to	700 m	700 m
Power up to	55 kW	55 kW

L6W-L8W-L10W-L12W SERIES
Rewindable motors

	50 Hz	60 Hz
Powers up to	300 kW	300 kW

SCUBA SERIES
5" submersible pumps

	50 Hz	60 Hz
Capacity up to	7,5 m^3/h	7,5 m^3/h
Head up to	80 m	75 m
Power up to	1,1 kW	1,1 kW

Z8-Z10-Z12 SERIES
8"-10"-12" borehole pumps

	50 Hz	60 Hz
Capacity up to	520 m^3/h	480 m^3/h
Head up to	500 m	500 m
Power up to	350 kW	350 kW

Water and oil filled 4" submersible motors series

	50 Hz	60 Hz
Powers up to	7,5 kW	7,5 kW

Booster sets.

Wide range of 2, 3 or 4 pump units controlled by pressure switches or pressure transmitter, with constant or variable speed. The Lowara range of automatic booster units is designed to supply water to intermittent and variable demand users, employing centrifugal electric pumps controlled by an electric panel.

Available at 60 Hz on request.

GXS SERIES SETS

Single-phase power supply, fixed speed and pressure switch control. For BG, CA, CEA, HM and SV series electric pumps.

	50 Hz /60 Hz
Flow rate up to	58 m^3/h
Power up to	2 x 1.5 kW

GMD SERIES SETS

Three-phase power supply, fixed speed and pressure switch control. For BG, CA, CEA, HM and SV series electric pumps.

	50 Hz /60 Hz
Flow up to	62 m^3/h
Power up to	2 x 4 kW

GHV SERIES SETS

Single-phase or three-phase power supply, variable speed and control by pressure transducers and HYDROVAR™ electronic speed controllers mounted on the motor. For SV series electric pumps.

	50 Hz /60 Hz
Flow up to	640 m^3/h
Head up to	160 m
Power up to	22 kW

GV SERIES SETS

Variable speed booster sets up to four pumps eSV series.

	50 Hz /60 Hz
Flow up to	640 m^3/h
Head up to	160 m
Power up to	37 kW

GS SERIES SETS

Fixed speed booster sets, two and three pumps eSV and e-NSC series.

	50 Hz /60 Hz
Flow up to	480 m^3/h
Head up to	160 m
Power up to	37 kW

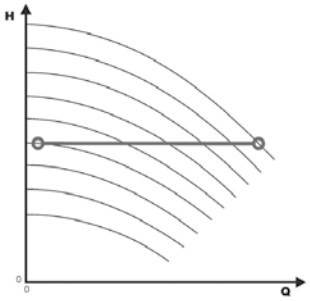
FIRE FIGHTING SYSTEMS EN 12845 GEM SERIES

Fire pump package manufactured in accordance to EN 12845. Max. power size for service pump 200 kW. Manifold in painted steel pipe with anchor bolts to fix to a wall or floor.

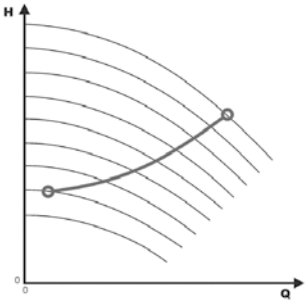
	50 Hz /60 Hz
Flow up to	766 m^3/h
Head up to	146 m

5th Generation Hydrovar.

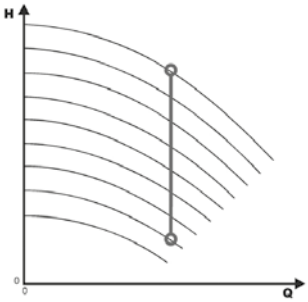
Energy is the largest cost of running any pump. Hydrovar Variable Speed Drive (VSD) works with your system to make it efficient.



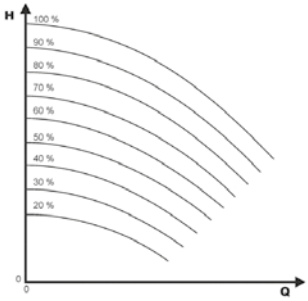
Control for constant pressure



Control to match a system curve



Control for constant flow



Control according to an external signal

What is HYDROVAR capable of?

HYDROVAR is an intelligent controller that matches pump performance to demand. It controls the speed of a standard IEC motor by converting the fixed voltage and frequency from the power supply line.

It can be fitted easily to any new pump system or retrofitted to existing pumps using the fast and easy "clip and play" mounting clamps.

Pump systems are very often oversized for the application and therefore using much more energy than needed.
With energy savings of up to 70% at partial loads alone, the typical investment payback period is less than 2 years, depending on energy costs and pump operating times.

A motor running at 80% of its maximum speed uses 48% less energy and slashes carbon emissions.

The controls available include constant pressure, system curve, constant flow or via an external signal. In addition to these functions HYDROVAR can do things that are normally only performed by the most advanced computerized control systems such as: stopping the pump or pumps at zero demand; stopping the pump or pumps in case of water failure; allowing protection against dry running; a standard feature of a 2nd required input value that allows change over between two different pressure settings via an external switch; sensor failure and over temperature of inverter and motor which protects the pump and motor from under or overvoltage.

Other features include: automatic test starts; auto cyclic change of lead and lag pump units; a memory for any inverter fault signals; an operating hours run counter; two levels of password protection if required.

HYDROVAR product overview.

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. Optismised 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.

LOWARA a xylem brand
EcoDesign
EN50598-1-2

Retro-fitting.

The HYDROVAR™ speed controller can be mounted or retro-fitted to any existing centrifugal pump manufacturer's unit, which has a standard IEC motor. The units are available in powers from 1.1–22 kW. The units can be mounted directly on to the pump motor (horizontal or vertical) or can be wall mounted. The HYDROVAR can also be connected by cable to another control system with microprocessor, using the RS-485 database located on the main terminal board under the cover. This enables the HYDROVAR system to send information about the system conditions to an external unit, and to be controlled from a distance.

HYDROVAR Smart.

The HYDROVAR Smart device includes all control functions of a HYDROVAR and can be combined with all standard frequency converters, regardless of the power range and the available supply voltage range. The inbuilt microprocessor manages all pump specific control requirements including cascading of up to 4 drives in multipump systems. The patented HYDROVAR controller ensures an immediate stop of the pump at zero demand.

Advantages.

- Patented HYDROVAR Control System.
- Integrated multi pump controller.
- No external power supply required
- (24V AC/DC output of the VFD can be used).
- Enclosure IP55 for panel or wall mounting.
- Suitable for combination with all standard frequency converters.
- No limitation of the power range.
- HYDROVAR controlled variable speed drive
- for any supply voltage range possible.
- RS485 interface input included as standard.

ResiBoost
Variable Speed Drive.

	50 Hz
Capacities up to	7.2 m^3/h
Head up to	65 m
Powers 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 of 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

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.

Find your ResiBoost solution.

e-HM

Scuba

BG

GS

VM

Smart Pump range

Smart Pumps are not only smart. They're smooth. They operate steadily in partial loads, which prevents the water hammer that's normally associated with full speed pumps. What's more, their accurate speed control during operation and their smooth start-up reduce mechanical stress and wear.

Available in single phase from 0.37 to 1.5 kW, Smart Pumps are easy to commission, set up and operate using the simple start-up menu. Parameters and alarms appear on an easy-to-read display designed to provide complete control of system operation. They're easy to program too, with just three keypad touches.
Each Smart Pump features an IE5 motor for best-in-class efficiency and enhanced hydraulic performance. The range has an IP55 enclosure rate, and includes BACnet and Modbus capability for seamless building management system integration in all stand-alone configurations. The drive is suitable for installations from -20°C to 50°C without power derating.

Applications.

Water supply systems in residential buildings

Air conditioning

Water treatment plants

Industrial installations

Discover the great trio of efficiency.

Lowara Smart Pumps combine three essential elements to ensure outstanding reliability, optimal savings and the shortest payback times. It's not about individual components. It's about a great team of three perfectly concerted elements: Ultra-premium IE5 motors for best-in-class efficiency, according to IEC 60034-30-2

Power drive system (drive and motor) in the highest efficiency class, IES2, according to IEC 50598-2

Hydraulic pump designed for exceptional Minimum Efficiency Index (MEI) ratings, according to EU Regulation No. 547/2012

Enjoy plug-and-play ease.

The all-inclusive Lowara Smart Pump range is easy to install and commission in new or retrofit applications.
Standard BACnet and Modbus capabilities ensure quick connectivity and seamless integration with your building management system.

Meet 2020 standards today.

Be ready now for the 2020 European Union Ecodesign Directives (EN 50598) on water supply and HVAC products. The Lowara Smart Pump range already meets the performance standards expected to be enforced in 2020 for the total pump system. What's more, the combined power drive system has achieved the highest IES class, IES2, according to IEC 50598-2. It's designed to work as a complete, integrated solution – so you can meet energy and operating efficiency goals today and tomorrow.

Lowara offers the most efficient smart pump system to meet the EU's Extended Product Approach standard.

Genyo

The Genyo is designed to replace traditional pressure boosting systems in domestic applications; it offers the advantages of smaller overall dimensions and no maintenance is required. Genyo provides the electric pump with adequate protection against dry running.

GENYO 8A

GENYO 16A

Suitable for use with both surface and submersible electric pumps

- Two models: Genyo 8A and Genyo 16A
- Maximum current 16 A
- Maximum pressure 10 bar
- IP 65 protection
- Delivery up to 170 l/min (10 m^3/h).
- Maximum liquid temperature 60°C
- Low friction loss

Applications.

- Domestic pressure boosting
- (single and multi-family dwellings)
- Small irrigation and gardening
- Civil water systems (bathing establishments, campgrounds, sporting facilities)

Benefits.

- Protection against dry running integrated in the device
- No maintenance required (a convenient alternative to traditional diaphragm
- surge tanks)
- Quick and easy installation
- Compact size
- Stable pressure without fluctuations at constant operating point
- Back-up tank to compensate for small leaks or drips in the hydraulic system (patented system)
- Limited flow resistance

For genyo 16A model only:

- Automatic restart in case of water failure
- Adjustable starting pressure

Q-Smart
Single phase electronic control panel.

Q-Smart single-phase electronic control panel intended to be used with 1 or 2 single phase electric pumps within different fixed speed systems. Over 50 different combinations available within this one product that can be used for controlling pressure boosting or sewage applications.

Q-Smart 10: One Pump Control
Q-Smart 20: Two Pump Control

Ease of Use.

- Pre-programmed packages that decrease installation and commissioning costs
- Illuminated coloured LED status lights

Versatile.

- Ideal for use in various water and wastewater applications
- Manages up to 2 pumps (booster sets)
- In case of control board failure, pumps can still be operated
- 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 application probes

Specifications.

- Built in overload circuit breaker(s)
- Power Size up to 1.5kW (power output for pump up to 12A)
- 4 Push Button Key Pad
- Auto Test Function
- Pump Rotation Option
- Real Time Clock with Hour Counter
- Dry run, overload and shortcircuit protections

Option extras.

- ModBus RTU module
- Programmable free voltage contacts module

DRAINAGE/ SEWAGE PUMPS

PRESSURE BOOSTING PUMPS

Control Boxes.

A range of control boxes suitable for use with both submersible and surface pumps.

Accessories.

An extensive range of accessories is available to complement the pump range illustrated in this brochure. This includes:

- Pressure switches
- Pressure gauges
- 5 way connector
- Flexible connector
- Float switches
- Flow meters
- Direct on line starter
- Non return valves, strainers and hosetails.
- Water softners
- Motor filters
- Cables and junctions
- Temperature sensors
- Pressure vessels
- Cooling and pressure shrouds


XLC
Xylem Learning Center
PUMP FUNDAMENTALS
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 training.aws.emea@xyleminc.com
xylem
Let's Solve Water

Applications.

	PUBLIC UTILITIES (MUNI)	RESIDENTIAL BUILDING SERVICES	COMMERCIAL BUILDING SERVICES	INDUSTRY	AGRICULTURE
END SUCTION CENTRIFUGAL PUMPS					
P-PB-PK Series		■	■	■	
SP Series		■			
CEA-CEAN Series		■		■	■
BG Series		■		■	■
CO -COF-SHO Series				■	
e-NSCE, e-NSCS Series	■	■	■	■	■
e-NSCF Series	■		■		
e-SHE, e- SHS, e,SHF Series		■	■	■	■
LS-LC-LCP-LSN-LSB Series			■	■	■
CLOSE COUPLED IN-LINE PUMPS					
ecocirc XL e XLplus Series			■		
ecocirc BASIC and PREMIUM Series		■			
ecocirc PRO Series		■			
TLCN-TLCHN Series		■	■		
TLC-TLCH Series *		■	■		
e-LNEE, e-LNES, e-LNTE, e-LNTS Series			■	■	
MULTISTAGE					
e-HM™ Series		■		■	■
VM Series	■	■	■	■	■
e-SV™ 1-125 Series	■	■	■	■	■
SVI Series				■	
MP Series	■		■	■	■
MPE Series and e-MP Series	■			■	■
P/PVa Series	■			■	■
SUBMERSIBLE, DRAINAGE & SEWAGE PUMPS					
DOC Series		■			
DOMO Series		■			
DOMO GRI Series		■		■	
DIWA Series		■		■	
DN Series		■		■	
DL Series		■		■	
Lowara 1300 Series		■	■	■	
Minibox, Midibox, Singlebox Plus, Doublebox Plus Series		■	■	■	
Maxibox Plus			■	■	
SOS Floodkit		■			

	PUBLIC UTILITIES (MUNI)	RESIDENTIAL BUILDING SERVICES	COMMERCIAL BUILDING SERVICES	INDUSTRY	AGRICULTURE
BOREHOLE					
e-GS Series					
SCUBA Series					
Z6 Series					
Z8-Z10-Z12 Series (TVS Series)					
40S-L4C Motors					
L6C-L6W Motors					
L8W-L10W-L12W Motors					
BOOSTER SETS					
GXS Series					
GTKS Series					
GMD Series					
GHV Series					
GV Series					
GS Series					
GEM Fire Fighting Systems EN 12845					
MONITORING & CONTROLS					
Hydrovar 5th generation					
e-SM drive					
Teknospeed					
ResiBoost					
Genyo					
Q-Smart					

* Only for Extra EEA Countries.
EEA means: European Economic Area = European Union + 3 of 4 Member States of EFTA European Free Trade Association = EU 27 + Iceland + Liechtenstein + Norway. Swiss, Turkey and Croatia have to be added to EEA list of countries for the observance of the same regulations.

Xylect

Xylect™ is pump solution selection software with an extensive online database of product information across the entire Xylem range of pumps and related products, with multiple search options and helpful project management facilities. The system holds up-to-date product information on thousands of products and accessories.
The possibility to search by applications and the detailed information output given, makes it easy to make the optimal selection without having detailed knowledge about products.

The search can be made by:
Application

Product type

Duty point

Xylect™ gives a detailed output:
List with search results

Performance curves (flow, head, power, efficiency, NPSH)

Motor data

Dimensional drawings

Options

Data sheet printouts

Document downloads incl dxf files

The search by application guides users not familiar with the product range to the right choice.

The best way to work with XylectTM is to create a personal account. This makes it possible to:
Set own standard units

Create and save projects

Share projects with other Xylect™ users

Every user has a My Xylect space, where all projects are saved.
For more information about Xylect™ please contact our sales network or visit **www.xylect.com.**

The detailed output makes it easy to select the optimal pump from the given alternatives.

Dimensional drawings appear on the screen and can be downloaded in dxf format.

For more information on how Xylem can help you, please visit: www.buildings.xylem.com

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

LOWARA

xylem
Let's Solve Water

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