Product Portfolio

LOWARA PROVIDING PUMPIMG 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

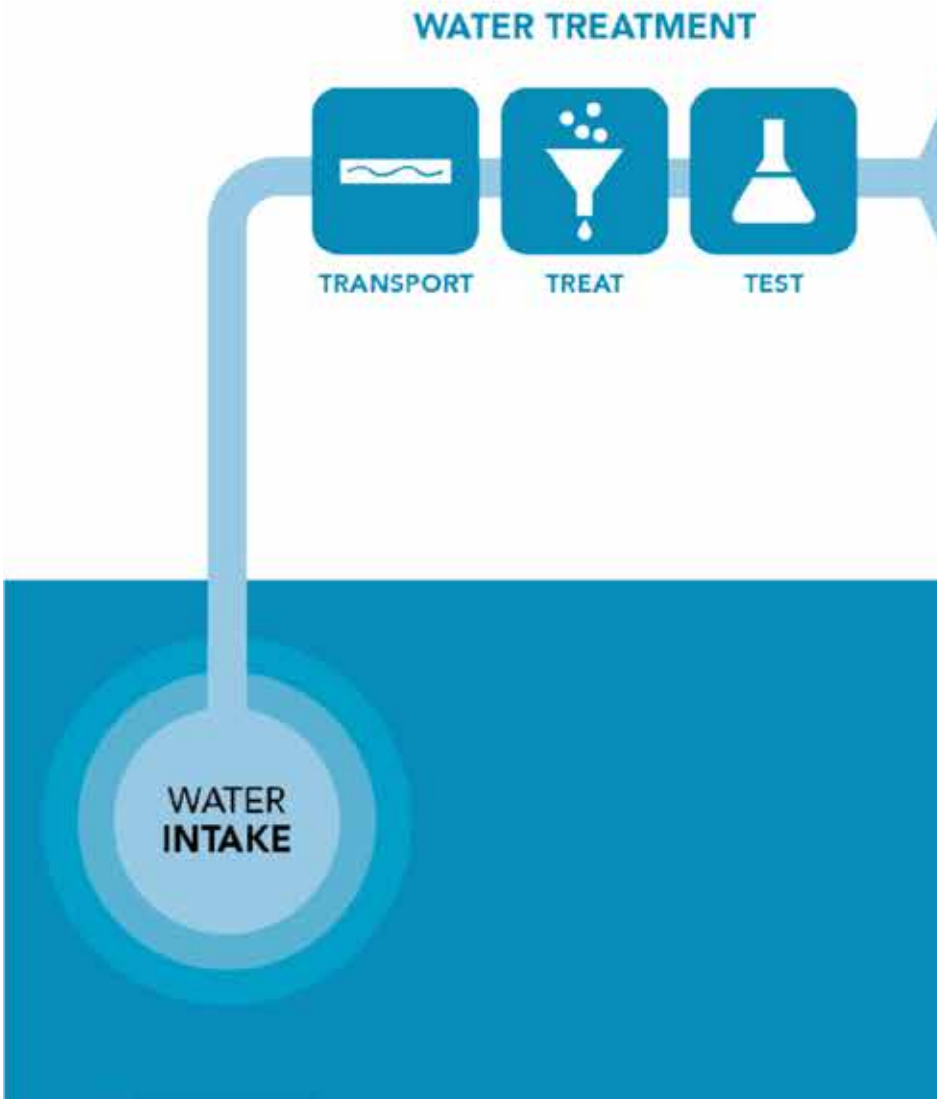
Our industry includes thousands of small companies, none of which have the breadth, scale or experience to address challenges across the complete water cycle. From water treatment – to end-use consumers – to wastewater treatment – the singular pure-play exception is Xylem.

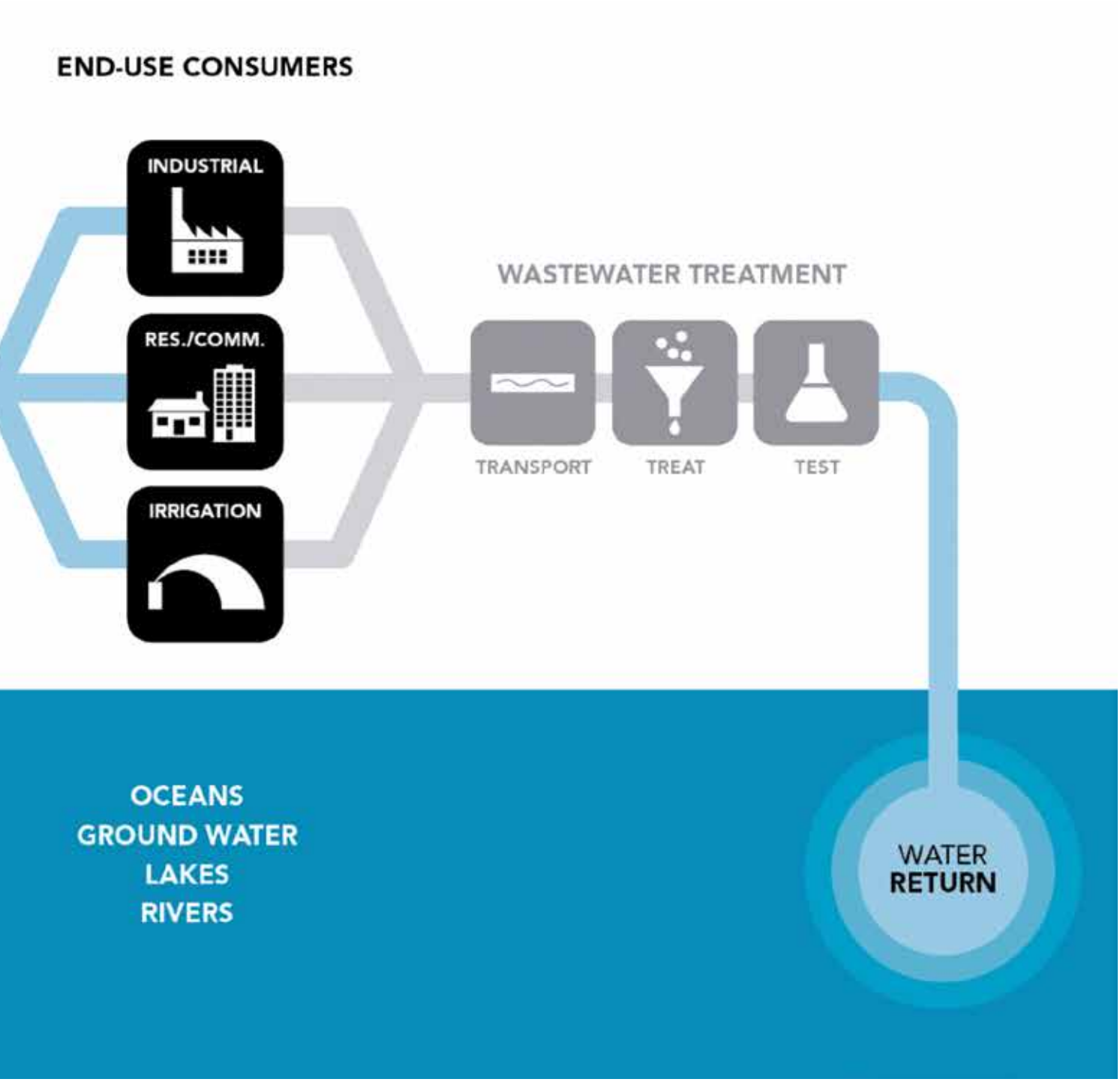
Our involvement in the water cycle can be broken down into two parts – Water Infrastructure and Applied Water.

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 over 40 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 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.

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.

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 19).

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

	50 Hz
Capacities up to	130 m³/h
Head up to	100 m
Powers up to	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
Capacities up to	1300 m³/h
Head up to	160 m
Powers up to	90 kW
Temp	-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
Capacities up to	1800 m³/h
Head up to	160 m
Powers up to	315 kW
Temp	-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
Capacity up to	240 m³/h
Head up to	110 m
Power up to	37 kW (extended shaft version up to 22 kW)
Temp	-30°C to +120°C

Various seals options available

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

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

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

CEA-CEAN SERIES closed impeller pumps (AISI 316)

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

Various seals options available

P-PSA-PK SERIES peripheral pumps

	50 Hz	60 Hz
Capacities up to	3.72 m^3/h	3.9 m^3/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 m^3/h	2.7 m^3/h
Head up to	49 m	46 m
Powers up to	0.75 kW	0.75 kW
Suction head to	7 m	7 m

BLOCK PRESSURE SETS

50 Hz and 60 Hz
Pre-assembled sets for use with the Lowara range of end suction pumps

LS SERIES Closed impeller 16 bar pumps frame mounted

According to ISO 5199

	50 Hz
Capacity up to	4600 m^3/h
Head up to	100 m
Temperature	180°C
Size	DN 150-600

Various materials and seals options available

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

	50 Hz
Capacity up to	450 m^3/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 m^3/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

LC/LCP SERIES Closed impeller 25 bar pumps frame mounted

According to ISO 5199

	50 Hz
Capacity up to	4600 m^3/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	12 m
Maximum pressure	10 bar
Temp	-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

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

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

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)

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

FLC–EFLC* SERIES wet rotor circulators

	50 Hz
Capacities up to	80 m³/h
Head up to	20 m
Maximum pressure	10 bar
Temp	-15°C to +120°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 19).

e-LNEE SERIES
Extended shaft

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

e- LNES SERIES
Stub shaft in-line pumps

	50 Hz
Capacity up to	400 m³/h
Head up to	100 m
Power up to	37 kW
Temp	-25°C to +140°C

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

	50 Hz
Capacities up to	800 m³/h
Head up to	100 m
Powers up to	37 kW
Temp	-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 19).

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)

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	

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

TDB-TDV SERIES
vertical multi-stage pumps

	50 Hz
Capacity up to	360 m³/h
Head up to	500 m
Power up to	355 kW
Temp	up to +140°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	

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
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
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	

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	

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	

GLS-GLV SERIES wastewater/sewage pumps in cast iron with self-cleaning channel or vortex impeller

	50 Hz
Capacity up to	244 m³/h
Head up to	41 m
Power up to	7,4 kW
Solids up to	100 mm
Motors	2-4 poles
Temp	up to +40°C

COMING SOON

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

50 Hz

Capacity up to	414 m³/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.

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

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

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

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

TVS Series
8" to 12" borehole pumps

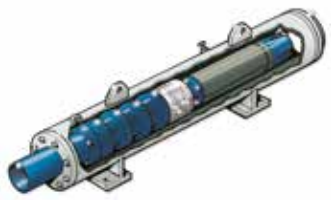
	50 Hz	60 Hz
Capacity up to	520 m^3/h	480 m^3/h
Head up to	500 m	500 m
Power up to	350 kW	350 kW

Water and oil filled 4" submersible motors series

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

L6W-L8WL10W-L12W SERIES
Rewindable motors

	50 Hz	60 Hz
Powers up to	300 kW	300 kW



Cooling shrouds and pressure shrouds

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
Flow rate up to	58 m³/h
Power up to	2 x 1.5 kW

GTKS SERIES SETS

Single-phase power supply, variable speed and control by pressure transducers and Teknospeed electronic speed controllers integrated with the motor. For BG, CA, CEA, HM and SV series electric pumps.

	50 Hz
Flow up to	52 m³/h
Power up to	2 x 1.1 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
Flow up to	62 m³/h
Power up to	2 x 4 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.

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
Flow up to	640 m³/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
Flow up to	640 m³/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
Flow up to	480 m³/h
Head up to	160 m
Power up to	37 kW

Variable speed drives... Teknospeed.

Series of Variable Speed Electric Pumps and Pressure Booster Units.

The single-phase Teknospeed variable speed electric pumps and pressure booster units are designed for residential applications as they provide all the comfort and advantages of constant pressure in the home. The Teknospeed series comprises a frequency converter integrated into the pump which adjusts motor speed so as to constantly provide users with the same pressure, even when demand for water changes. The main applications for which the Teknospeed series offers elevated comfort and benefits are: home pressurisation, irrigation, greenhouses, light industry, fountains and creative water displays.

The range features a large number of models and pump types.

Horizontal and vertical pumps:
TKS/HMZ, TKS/BG, TKS/CA-CEA, TK/SV.
Single pump or two-pump pressure booster units:
GTKS20/HMZ, GTKS20/CA, GTKS20/SV

Specifications.

Delivery: up to 16m^3/h

Head: up to 75m

Power supply: single-phase 50 and 60Hz

Power: from 0.3kW up to 1.1kW

Temperature of pumped liquid: to 80°C

Applications.

Water distribution

Industrial washing equipment

Pressure boosting

Irrigation

Water treatment

H.V.A.C.

Cooling and chiller accessories

Variable speed drives... HYDROVAR™.

HYDROVAR™ – the intelligent and user friendly speed controller for pumps!

HYDROVAR™ is a pump or wall-mounted variable speed, microprocessor based system controller, and was the world's first of its type to manage motor speed and match pump performance to a range of hot and cold water applications.
Due to the unique modular design the HYDROVAR™ unit can be mounted or retrofitted to any existing centrifugal pump which has a standard IEC motor.
This is the long-awaited solution for high-level installations requiring failsafe systems with a superior range of features, while its modularity also provides a cost-effective solution for low-level, reduced feature demands.
The HYDROVAR™ needs no additional master control and enables virtually any configuration of pumps: up to 8 master drives or a mix of master and slave drives.
The units are available in powers from 1,1 - 22 kW.
The HYDROVAR™ does much more than just change the motor speed.
It truly manages your pump performance to match a wide range of system conditions, allowing energy savings up to 70% (approved by TUEV Austria)*.

* Tests carried out by TUEV Austria (Austrian testing authority) on 5 March 2005 based on comparative tables and data on intake performance at identical flow.

The HYDROVAR™ eliminates the need for.

- Expensive additional master control panels and circuitry
- System control valves
- Large pressure vessels

Benefits.

- Sizes available 1,1 - 22 kW
- Extension up to 315 kW by using the external Hydrovar Smart controller
- Shut down at zero demand
- Easy to integrate into BMS systems - ModBus communication included as standard
- Can be mounted directly on any standard IEC motors
- Included 2 line LCD display
- Enclosure IP 55 protection
- Up to 8 HYDROVAR™ pumps can be connected to one system
- Available in 3 different levels (Master/ Single/Basic) to offer the right solution for system requirement
- 2 sensor inputs for implementing of two actual value signals within one system (min/max, difference) or for a second sensor for safety reasons (Master Inverter)
- Different types of sensors supported (4-20mA, 0-20mA, 0-10Vdc, 2-10Vdc)
- Energy savings up to 70% achievable
- Error Log with Time and date stamp
- Extended manual control mode with different fixed speed valued selectable via external contact

Typical examples of application.

Maintaining a constant pressure, as in water boosting or irrigation

Maintains a constant flow, as in filter and water supply applications

Compensating for losses in a system (following a system curve), as in heating systems

Control of pump performance by temperature sensors

Emptying or filling tanks by level probes

Control of boiler feed water

Cascade control capability by combining different executions (Master/Basics) of the modular HYDROVAR™ family

Energy savings.

Energy saving is a large issue within the heating and ventilating market and within the Lowara product portfolio we can offer a variable speed drive, the HYDROVAR™. A unique parameter gives the HYDROVAR™ an added advantage. This parameter allows the pump to follow a system curve, the minimum system head is set together with the maximum and the pump will then operate between these two points.

This option has been specifically developed for use in the heating industry as it allows the user to save up to 70% energy costs over a fixed speed pump. Due to the energy saving capabilities of the HYDROVAR™ the unit has achieved the high requirements set by the Energy Saving Trust to allow Lowara to promote the HYDROVAR™ product.

HYDROVAR™ booster sets.

The HYDROVAR™ allows up to 8 units to be interfaced together which offers the user ultimate flexibility. The pumps have an automatic cyclic changeover facility and in the case of failure the remaining pump/s take up the duty. The HYDROVAR™ utilises a 4 - 20A signal to regulate the motor speed in order to meet the system requirements. By controlling the pump in this way the user can make substantial savings in comparison to conventionally controlled systems.

Typical energy savings.

Pump Type: In-line FCE 80 - 200/110 at a head of 25 metres

CAPACITY	POWER USED		POWER SAVED	LENGTH OF TIME	TOTAL
	CONSTANT SPEED	VARIABLE SPEED			
m^3/h	kW	kW	kW	h	kWh
40	7,13	4,95	2,18	2.190	4.774
60	8,17	6,29	1,88	4.380	8.234
90	9,81	9,43	0,38	2.190	832
				TOTAL ENERGY SAVINGS	**13.840**

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.

HYDROVAR™ Watercooled for low power boosting systems.

As the name implies the unit utilises the water pumped through it to cool the internal electronics and its unique design has been developed for use within residential applications. The HYDROVAR™ Watercooled variable speed drive will be supplied along with a pump and will protect the unit from dry running, overheating, short circuit and over-current and due to the soft start/stop operation protect the system from water hammer.
The HYDROVAR™ Watercooled is an important part of the HYDROVAR™ product family to complete the product portfolio on the low power end and continue to offer its users a reliable variable speed drive solution.

Aquontroller 230 VAC drive for single phase motors.

The Aquontroller is specially designed for maintaining constant pressure independent of flow for maximum comfort. Energy savings are 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 and electrical faults.
Smooth operation and soft starting ensure silent running and an extended pump life. With pipe or wall mounted versions, the quick set up means easy installation.

Vessels and accessories.

Pressure Vessels.

Sizes to 5000 litre

Horizontal and vertical

Pressure to 10bar

Temperature to 99°C

Products available with WRc approved materials

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

Genyo

Float switches

Flow switches

Direct on line starter

Non return valves, strainers and hosetails.

Water softners

Filters

Dosing Pumps

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.

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

Pump selection guide.

Xylem offer great online and off-line tools to make users and specifier's life easier and for better performance.
They are easy to use and minimize the risk of making mistakes in the selection process.

The selection software comes in stand-alone (Loop4U) or web based (xylect.com) versions and allows you to find the best solutions for your pumping problems even without knowing the Xylem product portfolio.
The software let's you search on duty point, application or browse by product.

Detailed output from our tools includes downloadable documents such as data sheets and dimensional drawings in dxf, stp or revit formats.

Besides a comprehensive range of software, Xylem offers a whole range of systems engineering tools for sizing a pump system as well as training in pump sizing and pump systems optimization.
And if you need further help, Xylem also has skilled application engineers ready to assist you in designing optimal pumping systems.

Applications.

	PUBLIC UTILITIES (MUNI)	RESIDENTIAL BUILDING SERVICES	COMMERCIAL BUILDING SERVICES	INDUSTRY	AGRICULTURE
END SUCTION CENTRIFUGAL PUMPS					
CEA-CEAN Series		■		■	■
SP Series		■			
BG Series		■		■	■
JEC-AG Series		■	■		
P-PB-PK Series		■	■	■	
e-NSCE, e-NSCS Series	■	■	■	■	■
e-NSCF Series	■		■		
CO -CO F-SHO 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 PREMIUM Series		■			
ecocirc Series		■			
ecocirc PRO Series		■			
TLCN-TLCHN Series		■	■		
TLC-TLCH Series *		■	■		
FLC-EFLC Series *			■		
e-LNEE, e-LNES, e-LNTE, e-LNTS Series			■	■	
MULTISTAGE					
e-HM™ Series		■		■	■
VM Series	■	■	■	■	■
e-SV™ 1-125 Series	■	■	■	■	■
TDB-TDV Series	■		■	■	■
SVI Series				■	
MP Series	■		■	■	■
P-MP Series				■	■
PVa Series			■	■	■
SUBMERSIBLE, DRAINAGE & SEWAGE PUMPS					
DOC Series		■			
DOMO Series		■			
DOMO GRI Series		■		■	
DIWA Series		■		■	
DN Series		■		■	
DL Series		■		■	
1300 Series		■	■	■	
GLS-GLV Series		■	■	■	
Minibox, Midibox, Singlebox Plus, Doublebox Plus Series		■	■	■	
Maxibox Plus			■	■	

	PUBLIC UTILITIES (MUNI)	RESIDENTIAL BUILDING SERVICES	COMMERCIAL BUILDING SERVICES	INDUSTRY	AGRICULTURE
BOREHOLE					
GS Series					
SCUBA Series					
Z6 Series					
Z8-Z10-Z12 Series					
40S-L4C Motors					
L6C-L6W Motors					
L8W-L10W-L12W Motors					
TVS Series					
BOOSTER SETS					
Block Pressure Set					
GXS Series					
GMD Series					
GTKS Series					
GHV Series					
GEM Fire Fighting Systems EN 12845					
GS Series					
GV Series					
VARIABLE SPEED CONTROLS					
Teknospeed					
HYDROVAR™					
HYDROVAR™ Retro-Fitting					
HYDROVAR™ Smart					
HYDROVAR™ Watercooled					
Aquontroller					
ACCESSORIES					
Genyo, Vessels, Motors, Float switches					
Filters					
Control Boxes					

* 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 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 xyleminc.com.

LOWARA

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