

Product Portfolio

LOWARA PROVIDING PUMPIMG PRODUCTS AND SYSTEMS



Lowara's values...

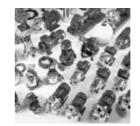
Lowara shares certain fundamental objectives with its customers: creating new products, perfecting quality and improving processes.

Therefore Lowara's values are centred on its customers. The Lowara people work in teams, since having common objectives is the best way to attain excellence in production and distribution. In its relationship with co-workers, customers and the outside world in general, Lowara consistently refers to its values: respect for people and the environment, quality of life, innovation, excellence, integrity and the pride of belonging to the team.

Lowara pumps...









Lowara is committed to studying, developing, manufacturing and distributing pumps and pumping systems for water technology applications.

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.

Water is the principle element of life and the common denominator of all applications where Lowara pumps are used.

Lowara pumps are made in fabricated stainless steel, which keeps the water free of contamination.

The laser welding technology creates pumps that are resistent to aggressive chemicals and guarantees that the production process respects the natural environment.

Advanced pump control and regulation systems ensure the safe, reliable and economic use of water.

Our mission.

We will 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, in order to maximize value for our customers, co-workers and shareholders.

Innovation for quality.

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. As a member of Xylem, Lowara also shares the most advanced research, design and industrial engineering skills with other Group Companies. This wealth of knowledge enhanced Lowara's innovation capabilities.







Applications.

Lowara offers a complete range of pumps for residential, agriculture and industrial applications.

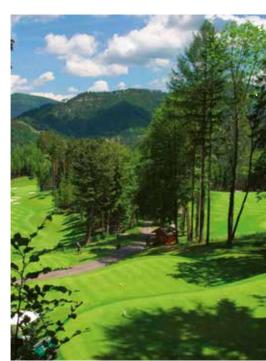
For residential service, Lowara produces pumps for pressurisation, conditioning, fire-fighting systems, lifting stations and dewatering.

For irrigation, Lowara produces pumps for agriculture applications, irrigation of gardens and parks.

For industrial applications, Lowara is committed on drinking water process, on water treatment, industrial washing equipment and machine tool cooling.







Global Organisation.

The Lowara World.

Lowara is a leader in the Eurpean residential and commercial pump market. It is part of Xylem, the world's largest producer of pumps and complementary products for water and industrial fluid applications. Xylem is a leading global water technology company which was founded in November 2011 after the spin off of ITT.



Global distribution.

Austria

France

Ireland

Lowara serves the global market directly or through the distribution network of other companies.

Lowara operates its own branches throughout Europe and is capable of reaching every market in the world from its distribution centre in Montecchio Maggiore.

Lowara's services organisation guarantees its customers consultancy, assistance, accurate and timely information along the entire distribution chain.



Italy



Netherlands





Portugal





United Kingdom





Poland







Pump selection guide.

Lowara is widely recognised as being one of the most innovative companies in the sector of hydraulic pumps and control and water handling systems. Lowara's concept of competitiveness involves developing top quality and extremely reliable products at competitive prices, hence optimising the level of customer satisfaction and service. This pump selection guide is designed to help you find and specify the best pump for your service.

LOOP4U & Xylect.

A pump selection programme which assists in the correct selection of pumps within the Lowara range. With LOOP4U as client version and Xylect as web based version, the user has a very powerful tool that will assist in the work greatly, ensuring the selections made both from a technical and commercial aspect, are correct and more importantly meet the customers needs.







Applications.		S	S		
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END SUCTION CENTRIFUGAL PUMPS					
CEA-CEAN Series					
SP Series					
BG Series					
JEC-AG Series P-PB-PK Series					
FHE-FHS Series					
FHF Series					
CO -CO F-SHO Series SHE-SHS-SHF Series					
SHE-SHIS-SHI Selles					
CLOSE COUPLED IN-LINE PUMPS					
ecocirc XL e XLplus Series					
ecocirc PREMIUM Series ecocirc Series					
ecocirc PRO Series					
TLCB-TLCHB Series					
TLC-TLCH Series FLC-EFLC Series					
FCT Series					
MULTISTAGE e-HM™ Series					
VM Series					
e-SV TM 1-125 Series					
TDB-TDV Series SVI Series					
SVI Series					
SUBMERSIBLE, DRAINAGE & SEWAGE PUMPS					
DOC Series					
DOMO Series DOMO GRI Series					
DIWA Series					
DN Series					
DL Series GLS-GLV Series					
Minibox, Midibox, Singlebox Plus, Doublebox Plus Series					
Maxibox Plus					
PARELIALE					
BOREHOLE GS Series					
SCUBA Series					
Z6 Series					
Z8-Z10-Z12 Series 40S-L4C Motors					
L6C-L6W Motors					
L8W-L10W-L12W Motors					
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™ Retro-Fitting HYDROVAR™ Smart				-	
HYDROVAR™ Watercooled					
Aquontroller					
ACCESSORIES					
Genyo, Vessels, Motors, Float switches					
Filters, Softners*, Dosing Pumps*					
Control Boxes	ı				
* Sold in Italy Only					

^{*} Sold in Italy Only

End suction centrifugal pumps.



FHE-FHS SERIES cast iron pumps acc to EN 733

Capacities up to Head up to Powers up to

50 Hz 600 m³/h 55 kW

60 Hz 670 m³/h 100 m 55 kW

SHO SERIES open impeller pumps (AISI 316)

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



CEA-CEAN SERIES closed impeller pumps (AISI 316)

Capacity up to Head up to Power up to

60 Hz 50 Hz 31 m³/h 32 m³/h 46 m 62 m 3 kW 3 kW

SHE-SHS-SHF **SERIES** stainless steel pumps acc to EN 733 (AISI 316)

Capacity up to Head up to Power up to

60 Hz 50 Hz 240 m³/h 240 m³/h 120 m 110 m 75 kW 75 kW

The centrifugal range is the largest available within the Lowara portfolio and covers a multitude of applications. The products available range from the smallest P range used for small transfer schemes through to a comprehensive range of multistage products giving various material options. Within the range there are products that have complex seal arrangements.



stainless steel pumps (AISI 316)

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



60 Hz

54 m³/h

24 m

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



FHF SERIES frame mounted cst iron pumps

60 Hz 50 Hz 750 m³/h Capacity up to 700 m³/h 100 m Head up to 100 m 132 kW 90 kW Power up to



Capacities up to Head up to Powers up to

and swimming

pool pumps

J SERIES

AG SERIES

50 Hz 17m³/h 13 m 0.55 kW



and swimming pool pumps

50 Hz Capacities up to 32 m³/h Head up to 19 m 1.5 kW Powers up to



BLOCK **PRESSURE** SETS

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



60 Hz

83 m

1,1 kW

P-PSA-PK SERIES peripheral pumps

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

SP SERIES self priming pumps

Capacities up to Head up to Powers up to Suction head to

60 Hz 50 Hz 2.7 m³/h 2.75 m³/h 49 m 46 m 0.75 kW 0.75 kW 7 m 7 m

Circulators.

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

ecocirc SERIES XL high efficiency wet

60 m³/h

12 m

10 bar -10°C a +110°C

50 Hz

10 bar

-10°C a +110°C

6 m

3,2 m³/h

Capacities up to Head up to Maximum

and XLplus

pressureTemp

rotor circulators

ecocirc PREMIUM **SERIES** high efficiency wet rotor circulators

Capacities up to Head up to Maximum pressure Temp

ecocirc PRO **SERIES** wet rotor circulators for sanitary systems

Capacities up to Head up to Maximum pressure Temp



50 Hz

1 m³/h

10 bar

+2°C a +65°C

3 m

TLC-TLCH* **SERIES** wet rotor circulators

10

Capacities up to Head up to Maximum pressure Temp

12 m³/h 12 m 10 bar

50 Hz

-10°C a +110°C

50 Hz

ecocirc SERIES high efficiency wet rotor circulators

Capacities up to Head up to Maximum pressure Temp

TLCB-TLCHB

SERIES

Wet rotor

circulators

10 bar -10°C a +110°C

50 Hz / 60 Hz

-10°C a +65°C

12 m³/h

12 m

10 bar

50 Hz

12 m

3,2 m³/h

Capacities up to Head up to . Maximum pressure Temp

Capacities up to Head up to Maximum pressure Temp

FLC - EFLC*

SERIES

wet rotor

circulators

50 Hz 80 m³/h 20 m 10 bar -15°C a +120°C

In-line series.

In-line centrifugal pumps with cast iron pump body, AISI 316L stainless steel impeller entirely welded using laser technology. Available in the single and twin versions. Suitable for handling hot or cold moderately aggressive liquids.

FCE **SERIES** closed coupled in-line pumps

Capacities up to Head up to Powers up to Temp



50 Hz

89 m

22 kW

340 m³/h

-10°C to +130°C

FCTE SERIES close coupled twin in-line pumps

Capacity up to Head up to Power up to Temp



FCS SERIES in-line circulator pumps

Capacities up to Head up to Powers up to Temp



50 Hz 330 m³/h 89 m 22 kW -10°C to +140°C



FCTS SERIES twin in-line pumps

Capacities up to Head up to Powers up to Max temp to



22 kW -10°C to +140°C

Multi-stage pumps.



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 m ³ /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

-30°C to +120°C (high temp versions up to 180°C)

TDB-TDV SERIES vertical multi-stage pumps

Temp

 50 Hz

 Capacity up to
 340 m³/h
 on request

 Head up to
 500 m

 Power up to
 355 kW

 Temp
 up to +140°C

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 DPS system and a multi-outlet pump used in fire set applications.

Lowara has an extensive range of

multi-stage products that start with the

Lowara SV standard product through

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

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

Capacity up to	
Head up to	
Power up to	
Max temp to	



50 Hz	60 Hz
14 m³/h	17 m ³ /h
98 m	106 m
3 kW	4 kW
up to	+90°C

Drainage and sewage submersible pumps.



DOMO GRI SERIES sewage pump with grinder device

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

60 Hz 6,6 m³/h 29 m 1,1 kW



DOMO SERIES wastewater/ sewage pumps

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

5 m | 14,5 m kW | 1,5 kW 50 mm

60 Hz

40 m³/h



DIWA SERIES drainage pumps

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



GDOC SERIES cellar drainage pumps

Capacity up to Head up to Power up to Solids up to



50 Hz14 m³/h
11 m
0,55 kW

10,55 kW

10,55 kW

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.

DIWA SERIES drainage pumps

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



DL SERIES wastewater/ sewage pumps

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

GLS-GLV SERIES wastewater/sewage pumps in cast iron with single cannel or vortex impeller

Capacities up to Head up to Powers up to Solids up to Motors Temp



50 Hz 244 m³/h 41 m 7,4 kW 100 mm 2-4 poles -10°C to +90°C

BOX SERIES prefabricated lifting stations

1. Minibox

2. Midibox3. Singlebox Plus

3. Singlebox Plus4. Doublebox Plus

5. Maxibox Plus

Submersible borehole pumps.



Water and oil filled 4" submersible motors series

Powers up to

50 Hz 7,5 kW

60 Hz 7,5 kW

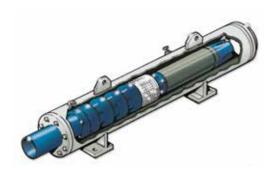
Z8-Z10-Z12 SERIES 8"-10"-12" borehole pumps

Capacity up to Head up to Power up to **50 Hz 60 Hz** 520 m³/h 550 m 550 kW 350 kW



Z6 SERIES 6" borehole pumps

Capacity up to Head up to Power up to **50 Hz**78 m³/h
700 m
55 kW **60 Hz**90 m³/h
700 m
55 kW



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.



L6W-L8WL10W-L12W SERIES Rewindable motors

Powers up to

50 Hz 300 kW **60 Hz** 300 kW



SCUBA SERIES 5" submersible pumps

Capacity up to Head up to Power up to **50 Hz** 7,5 m³/h 80 m 1,1 kW

60 Hz 7,5 m³/h 75 m 1,1 kW



GS SERIES 4" borehole pumps

Capacity up to Head up to Power up to **50 Hz** 21 m³/h 340 m 7,5 kW

60 Hz 22 m³/h 300 m 7,5 kW

Booster sets.



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

Flow rate up to Power up to



50 Hz 28 m³/h 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.

Flow up to Power up to



50 Hz 400 m³/h 2 x 4 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.

Flow up to Power up to



50 Hz 16 m³/h 2 x 1.1 kW

FIRE FIGHTING SYSTEMS EN 12845 GEM SERIES

Fire pump package manufactured in accordance to EN 12845. Max. power size for service pump 132kW. Manifold in painted steel pipe with anchor bolts to fix to a wall or floor.



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.

GHV SERIES SETS

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

Flow up to 640 m³/h
Head up to 160 m
Power up to 22 kW

GS SERIES SETS

Fixed speed booster sets, two and three pumps eSV and FH/SH series.

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

GV SERIES SETS

Variable speed booster sets up to four pumps eSV series.

Flow up to Head up to Power up to

50 Hz 640 m³/h 160 m 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 16m³/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!

HYDROVARTM 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 highlevel 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 $^{\text{TM}}$ family

Typical energy savings.

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

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 HYDROVARTM. A unique parameter gives the HYDROVARTM 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 HYDROVARTM the unit has achieved the high requirements set by the Energy Saving Trust to allow Lowara to promote the HYDROVARTM product.

HYDROVAR™ booster sets.

The HYDROVARTM 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 HYDROVARTM 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.



HYDROVAR™ Smart.

The HYDROVARTM Smart device includes all control functions of a HYDROVARTM 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 HYDROVARTM 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



CAPACITY POWER USED LENGTH TOTAL POWER CONSTANT SPEED VARIABLE SPEED kW h m³/h kWh 40 4,95 2,18 2.190 4.774 7,13 6,29 4.380 8.234 60 8,17 1,88

9,43

TOTAL ENERGY SAVINGS

2.190

0,38

13.840

832

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.



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.

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 m³/h).

Maximum liquid temperature 60°C

Low friction loss

Seminars, training and new product launches.







Teknospeed demonstration

Energy saving has become an important

issue with a large number of market

sectors. For many years Lowara have

been demonstrating the benefits of the

HYDROVAR™ energy control system, and

since the launch of the new Teknospeed

LTC - in-house training, seminars, and new product launches.

With our Lowara Training Centre we provide a learning environment that promotes the transfer of new skills and knowledge to the work setting through both classroom and technology-based instruction. Our training team comprises experienced individuals throughout the organisation who have expert knowledge of our products, markets and services. We are available to assist you and your organisation to meet your training needs.



L O W A R A



demonstration units are also now available.

Exhibitions.

a number of small Teknospeed

HYDROVAR™ and

Lowara is a regular contributor to industry exhibitions and conferences the world over. We also believe that it is important that our customers fully understand the Lowara experience, which is why we host a series of exhibitions and trade shows. Working together with our customers we can also assist in supplying exhibition pumps, posters etc. or actually help them organise the show; a true partnership. For up to date news on product and services please visit our web site

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www.lowara.com

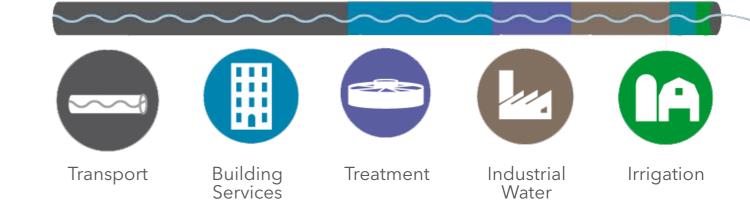


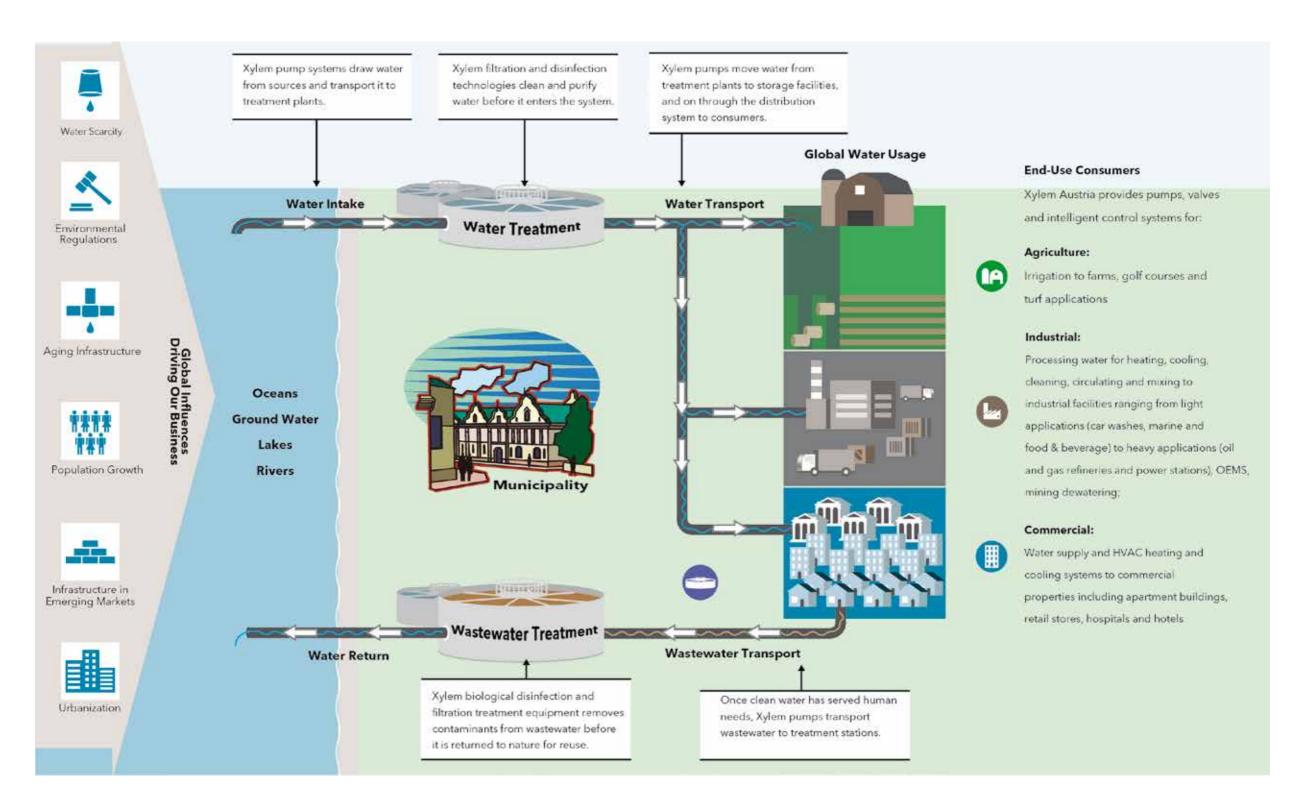
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A range of control boxes suitable for use with both submersible and surface pumps.



Delivering innovative technologies that touch every part of the water cycle with a single goal in mind: enable sustainable use of water everywhere.







Solutions for any Application.









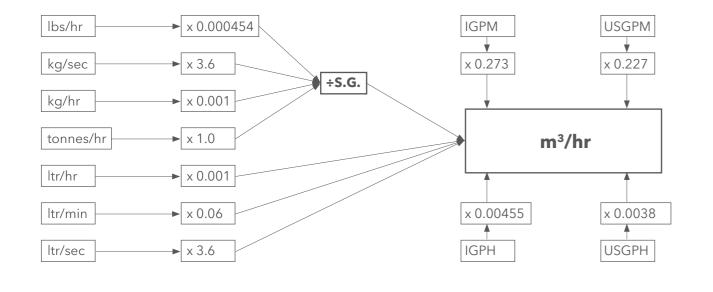






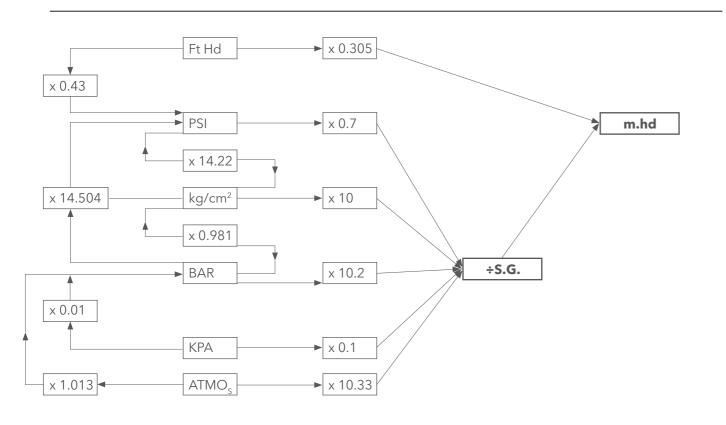


Calculation and conversion charts.









Conversions.

To convert to litres/sec.

IGPM	x 0.0757
m³/hr	x 0.278
m³/min	x 16.68
Metric tonnes/hr	x 0.278 ÷ S.G.
Litres/min	x 0.0167
Kilogrammes/hr	x 0.000278 ÷ S.G.
USGPM	x 0.063
Cubic feet/sec	x 28.3
Cubic feet/min	x 0.47
British tons/hr	x 0.282 ÷ S.G.
British barrels/hr	x 0.453

To convert to m³/hr.

IGPM	x 0.273
Litres/sec	x 3.60
Litres/min	× 0.06
Metric tonnes/hr	x 1 ÷ S.G.
m³/min	x 60
Kilogrammes/hr	x 0.001 ÷ S.G.
Kilogrammes/sec	x 3.6 ÷ S.G.
USGPM	x 0.227
Cubic feet/sec	x 102.0
Cubic feet/min	x 1.7
British tons/hr	x 1.015 ÷ S.G.
British barrels/hr	x 0.163

Pumping Head Conversions.

To convert to metres.

Feet	x 0.305
kg/cm ²	x 10 ÷ S.G.
PSI	x 0.704 ÷ S.G.
Inches Hg	x 0.345 ÷ S.G.
cm Hg	x 0.1362 ÷ S.G.
Atmospheres	x 10.35 ÷ S.G.
KN/m² (KPa)	x 0.102 ÷ S.G.
Bar	x 10.2 ÷ S.G.

Power Conversions.

To convert to kilowatts.

Horse power x 0.746

To convert to HP.

Kilowatts x 1.341

kW =

m³ / hr x Total head in metres x S.G. 367.87 x Pump Efficiency

BHP =

IMP.GPM x Total head in Ft x S.G. x 10 33,000 x Pump Efficiency



Xylem |'zīləm|

- 1) The tissue in plants that brings water upward from the roots;
- 2) a leading global water technology company.

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