



Product Portfolio

LOWARA PROVIDING PUMPING PRODUCTS AND SYSTEMS

A woman and a child are looking at a book together. The woman is on the right, and the child is on the left. They are both looking down at the book. The background is a blurred indoor setting with a plant. The entire image has a blue tint.

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 resistant to aggressive chemicals and guarantees that the production process respects the natural environment.

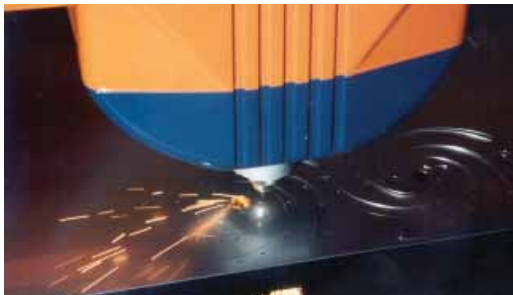
Advanced pump control and regulation systems ensure the safe, reliable and economic use of water.

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.

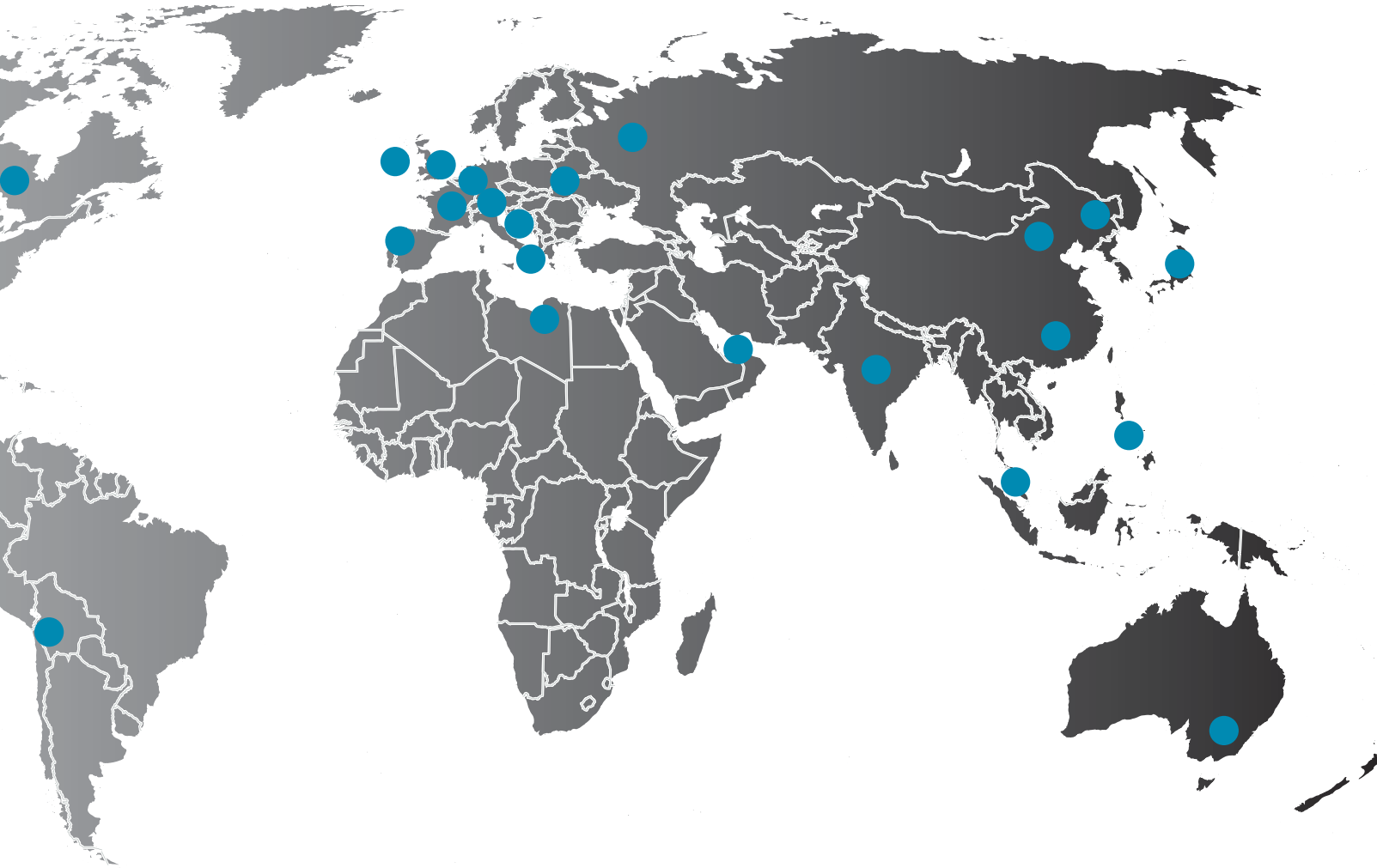
For industrial applications, Lowara is committed on drinking water process, on water treatment, industrial washing equipment and machine tool cooling.



Global Organisation.

The Lowara World.

Lowara is a leader in the European 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.

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



Austria



Portugal



Germany



United Kingdom



France



Poland



Ireland



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.

	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					
FHE-FHS Series					
FHF Series					
CO -CO F-SHO Series					
SHE-SHS-SHF Series					
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™ 1-125 Series					
TDB-TDV 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					
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™ Smart					
HYDROVAR™ Watercooled					
Aquontroller					
ACCESSORIES					
Genyo, Vessels, Motors, Float switches					
Filters, Softeners*, Dosing Pumps*					
Control Boxes					

* Sold in Italy Only

End suction centrifugal pumps.



FHE-FHS SERIES
cast iron pumps
acc to EN 733

	50 Hz	60 Hz
Capacities up to	600 m ³ /h	670 m ³ /h
Head up to	100 m	100 m
Powers up to	55 kW	55 kW



SHO SERIES
open impeller
pumps (AISI 316)

	50 Hz
Capacity up to	53 m ³ /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 m ³ /h	54 m ³ /h
Head up to	24 m	24 m
Power up to	3 kW	3 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



BG SERIES
self priming pumps

	50 Hz
Capacity up to	4.2 m ³ /h
Head up to	53 m
Suction head to	8 m
Power up to	1,1 kW



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

	50 Hz	60 Hz
Capacity up to	240 m ³ /h	240 m ³ /h
Head up to	110 m	120 m
Power up to	75 kW	75 kW



FHF SERIES
frame mounted
cast iron pumps

	50 Hz	60 Hz
Capacity up to	700 m ³ /h	750 m ³ /h
Head up to	100 m	100 m
Power up to	132 kW	90 kW



AG SERIES
plastic self priming
and swimming
pool pumps

Capacities up to	50 Hz 17m ³ /h
Head up to	13 m
Powers up to	0.55 kW



J SERIES
plastic self priming
and swimming
pool pumps

Capacities up to	50 Hz 32 m ³ /h
Head up to	19 m
Powers up to	1.5 kW



P-PSA-PK SERIES
peripheral pumps

Capacities up to	50 Hz 3.72 m ³ /h	60 Hz 3.9 m ³ /h
Head up to	82 m	83 m
Powers up to	1,1 kW	1,1 kW



BLOCK
PRESSURE
SETS

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



SP SERIES
self priming pumps

Capacities up to	50 Hz 2.75 m ³ /h	60 Hz 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

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



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
60 m³/h
12 m
10 bar
-10°C a +110°C

ecocirc PREMIUM SERIES high efficiency wet rotor circulators



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
3,2 m³/h
6 m
10 bar
-10°C a +110°C

ecocirc SERIES high efficiency wet rotor circulators



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
3,2 m³/h
12 m
10 bar
-10°C a +110°C

ecocirc PRO SERIES wet rotor circulators for sanitary systems



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
1 m³/h
3 m
10 bar
+2°C a +65°C

TLCB-TLCHB SERIES Wet rotor circulators



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz / 60 Hz
12 m³/h
12 m
10 bar
-10°C a +65°C

TLC-TLCH* SERIES wet rotor circulators



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
12 m³/h
12 m
10 bar
-10°C a +110°C

FLC - EFLC* SERIES wet rotor circulators



Capacities up to
Head up to
Maximum pressure
Temp

50 Hz
80 m³/h
20 m
10 bar
-15°C a +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 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
190 m³/h
89 m
18,5 kW
-10°C to +130°C

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

FCTE SERIES
close coupled twin
in-line pumps



Capacity up to
Head up to
Power up to
Temp

50 Hz
340 m³/h
89 m
22 kW
-10°C to +130°C

FCTS SERIES
twin in-line
pumps



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

50 Hz
560 m³/h
89 m
22 kW
-10°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 DPS system and a multi-outlet pump used in fire set applications.



e-SV™ SERIES vertical multistage pumps

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

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)

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



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

50 Hz	60 Hz
160 m ³ /h	160 m ³ /h
330 m	280 m
55 kW	55 kW
-10°C to +90°C	



e-HM™ SERIES horizontal multistage pumps

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

50 Hz / 60 Hz
29 m³/h
160 m
5,5 kW

TDB-TDV SERIES vertical multi-stage pumps

Capacity up to 340 m³/h
Head up to 500 m
Power up to 355 kW
Temp up to +140°C

50 Hz	60 Hz
340 m ³ /h	on request
500 m	
355 kW	
up to +140°C	



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

Capacity up to 14 m³/h
Head up to 98 m
Power up to 3 kW
Max temp to up to +90°C



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

Drainage and sewage submersible pumps.

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.

DOMO GRI SERIES sewage pump with grinder device



Capacity up to
Head up to
Power up to

50 Hz	60 Hz
6,6 m ³ /h	6,6 m ³ /h
25 m	29 m
1,1 kW	1,1 kW

DIWA SERIES drainage pumps



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

50 Hz	60 Hz
25 m ³ /h	25 m ³ /h
21 m	20 m
1,5 kW	1,5 kW
	8 mm

DOMO SERIES wastewater/ sewage pumps



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

50 Hz	60 Hz
40 m ³ /h	40 m ³ /h
14,5 m	14,5 m
1,5 kW	1,5 kW
	50 mm

DL SERIES wastewater/ sewage pumps



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

50 Hz	60 Hz
42 m ³ /h	42 m ³ /h
21 m	22 m
1,5 kW	1,5 kW
	50 mm

DIWA SERIES drainage pumps



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

50 Hz	60 Hz
25 m ³ /h	25 m ³ /h
21 m	20 m
1,5 kW	1,5 kW
	8 mm

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



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

50 Hz
244 m ³ /h
41 m
7,4 kW
100 mm
2-4 poles
-10°C to +90°C

GDOC SERIES cellar drainage pumps



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

50 Hz	60 Hz
14 m ³ /h	14 m ³ /h
11 m	11 m
0,55 kW	0,55 kW
	20 mm

BOX SERIES prefabricated lifting stations

1. Minibox
2. Midibox
3. Singlebox Plus
4. Doublebox Plus
5. Maxibox Plus



Submersible borehole pumps.



Water and oil filled
4" submersible
motors series

Powers up to	50 Hz	60 Hz
	7,5 kW	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 m ³ /h	480 m ³ /h
	550 m	550 m
	350 kW	350 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	60 Hz
	300 kW	300 kW

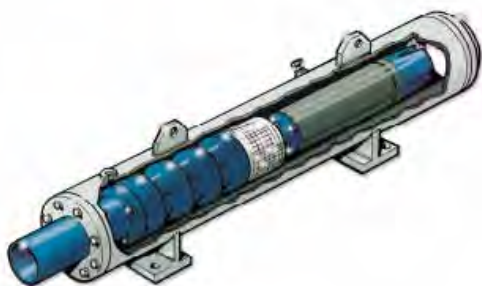
Z6 SERIES
6" borehole
pumps

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



SCUBA SERIES
5" submersible
pumps

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



GS SERIES
4" borehole pumps

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



Booster sets.

GXS SERIES 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 HYDROVART[™] electronic speed controllers mounted on the motor. For SV series electric pumps.



Flow up to
Head up to
Power up to

50 Hz
640 m³/h
160 m
22 kW

GS SERIES SETS

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



Flow up to
Head up to
Power up to

50 Hz
480 m³/h
160 m
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!

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

Typical energy savings.

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

CAPACITY m ³ /h	POWER USED		POWER SAVED kW	LENGTH OF TIME h	TOTAL kWh
	CONSTANT SPEED kW	VARIABLE SPEED kW			
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

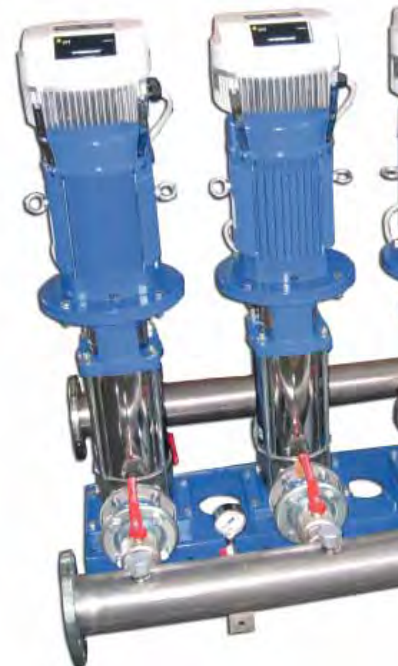
Energy savings.

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.



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.



Aquonroller 230 VAC drive for single phase motors.

The Aquonroller 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 hosesails.

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.



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.



HYDROVAR™ and Teknospeed demonstration units.

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 a number of small Teknospeed demonstration units are also now available.

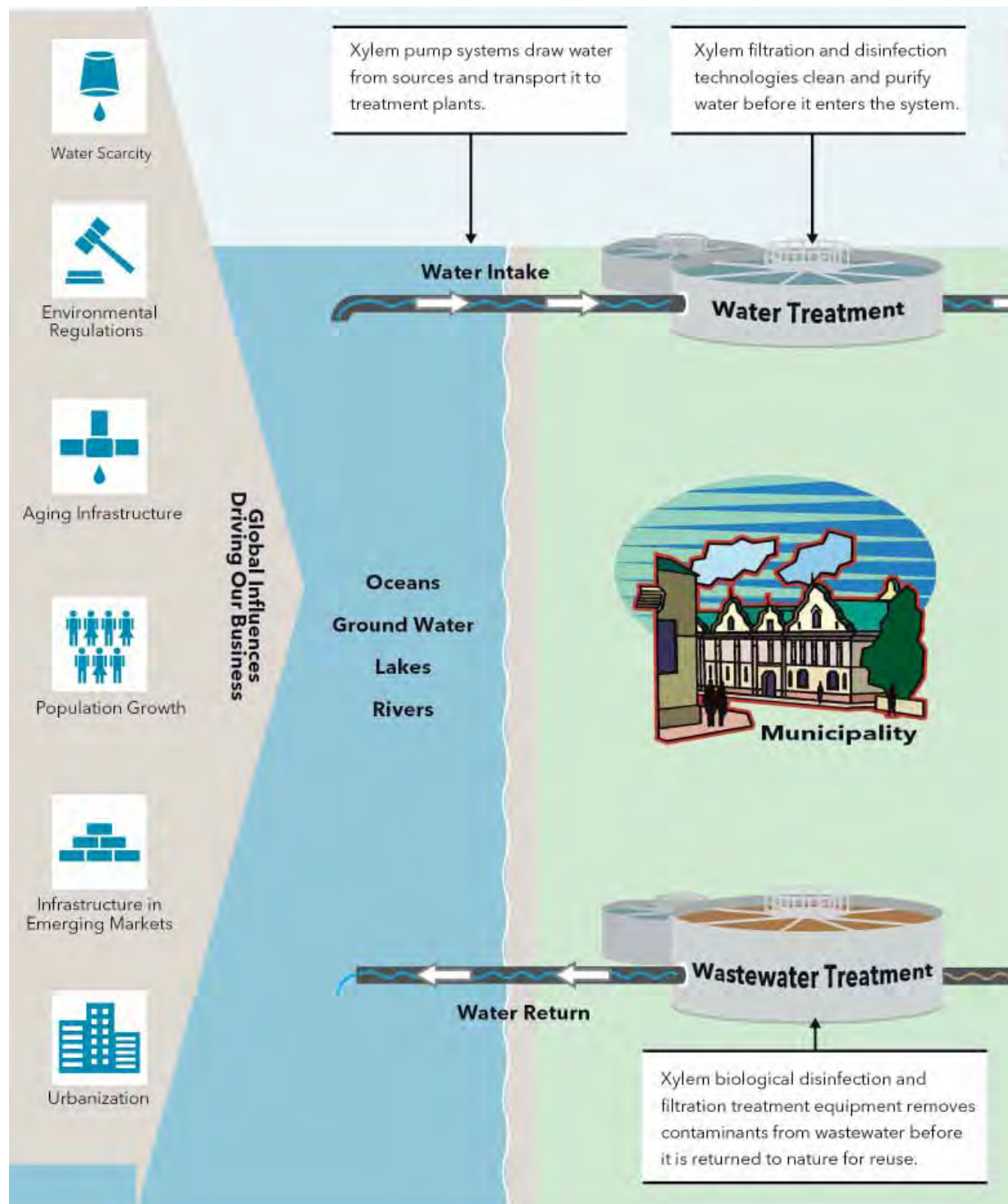
Exhibitions.

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

www.lowara.com



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





Transport



Building Services



Treatment

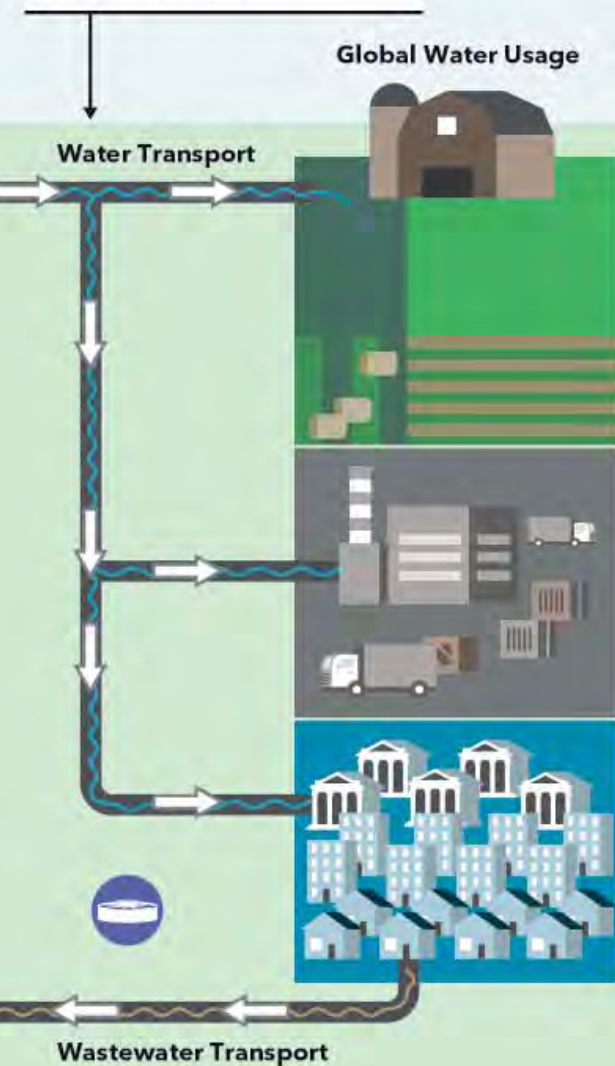


Industrial Water



Irrigation

Xylem pumps move water from treatment plants to storage facilities, and on through the distribution system to consumers.



Global Water Usage

End-Use Consumers

Xylem Austria provides pumps, valves and intelligent control systems for:

Agriculture:



Irrigation to farms, golf courses and turf applications

Industrial:



Processing water for heating, cooling, cleaning, circulating and mixing to industrial facilities ranging from light applications (car washes, marine and food & beverage) to heavy applications (oil and gas refineries and power stations), OEMS, mining dewatering;

Commercial:



Water supply and HVAC heating and cooling systems to commercial properties including apartment buildings, retail stores, hospitals and hotels

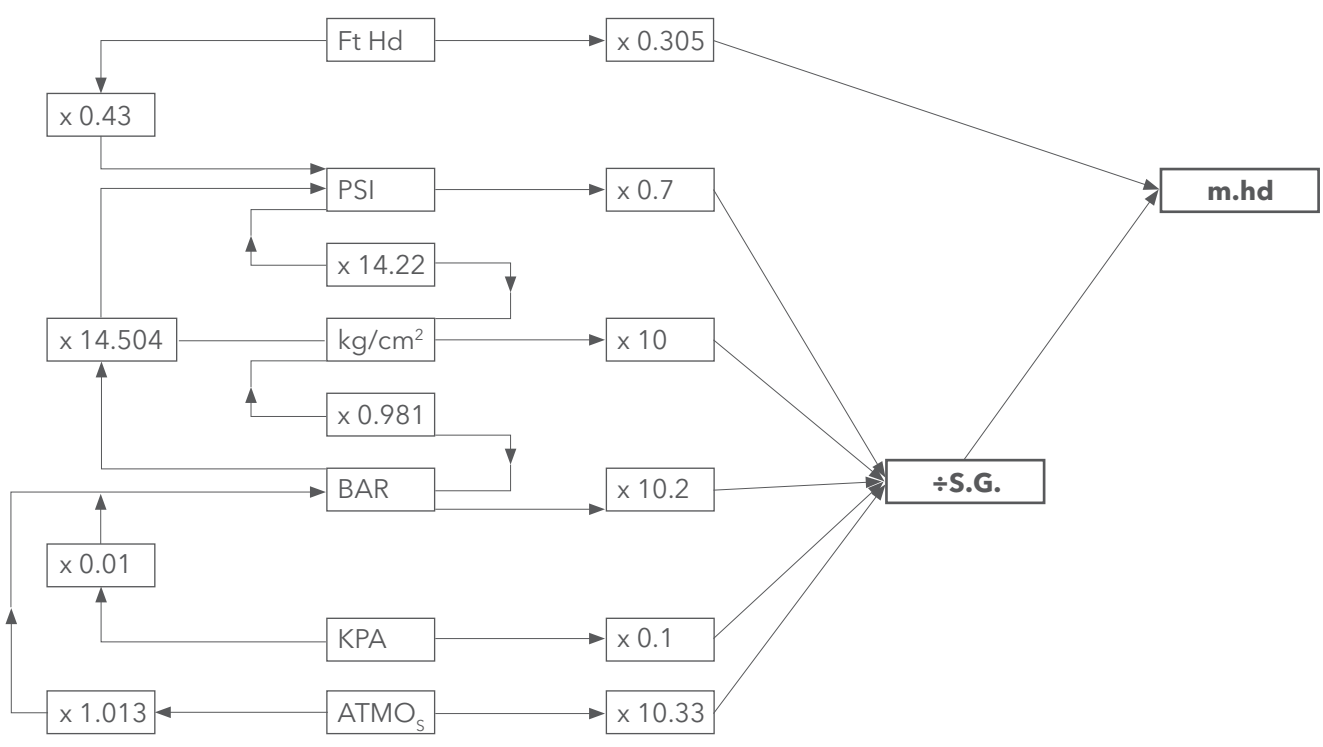
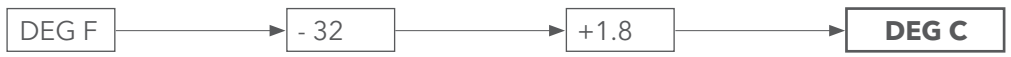
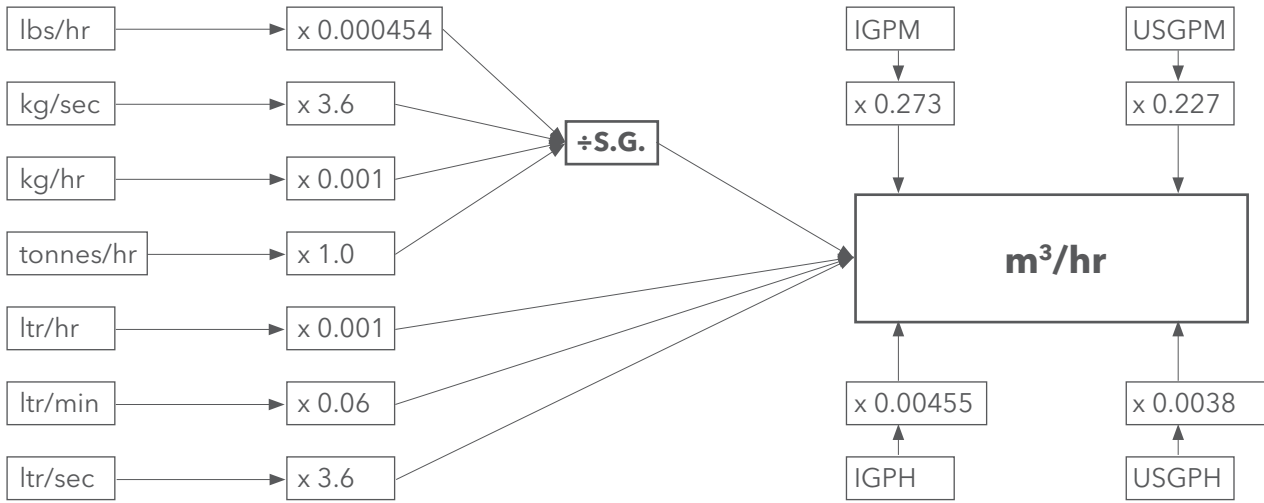
Once clean water has served human needs, Xylem pumps transport wastewater to treatment stations.



Solutions for any Application.



Calculation and conversion charts.



Conversions.

To convert to litres/sec.

IGPM	x 0.0757
m ³ /hr	x 0.278
m ³ /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	x 0.06
Metric tonnes/hr	x 1 ÷ S.G.
m ³ /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/m ² (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 =

$$\frac{\text{m}^3 / \text{hr} \times \text{Total head in metres} \times \text{S.G.}}{367.87 \times \text{Pump Efficiency}}$$

BHP =

$$\frac{\text{IMP.GPM} \times \text{Total head in Ft} \times \text{S.G.} \times 10}{33,000 \times \text{Pump Efficiency}}$$



Xylem |'zīləm|

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

We're approximately 12,900 people unified in a common purpose: creating innovative solutions to meet our world's water needs. Developing new technologies that will improve the way water is used, conserved, and reused in the future is central to our work. We move, treat, analyze, and return water to the environment, and we help people use water efficiently, in their homes, buildings, factories and farms. In more than 150 countries, we have strong, long-standing relationships with customers who know us for our powerful combination of leading product brands and applications expertise, backed by a legacy of innovation.

For more information on how Xylem can help you, go to xylem.com.



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