




FULL RANGE OF PUMPING SYSTEMS

PUMPING SYSTEMS



” INTRODUCTION

MACS L.L.C.

is an engineering solutions provider
& supplier Company based in United
Arab Emirates.

Our focus has been in the Pumps field in which we successfully completed a large number of projects for many prestigious premises, including:

- High Rise Buildings
- Commercial/Residential Buildings
- Hotels
- High Rise Buildings
- Villas & Accommodations
- Substations
- Showrooms
- Hospitals
- Industrial / Warehouses

MACS strives to deliver highest standards of pumping services carefully paying attention to Client's requirements, collaborating in development of the right scope of work. We have excelled in providing solutions to complicated systems bringing an unmatched combination of knowledge, skill, experience in the field of HVAC, Water Supply, Drainage, Electrical, and Pipe Works and continue to work on further complex projects.

Behind the name of MACS stands an experienced and professional team that works together to deliver and maintain the highest standard services in the world of Pumping Systems with the support of our affiliates, partners and mainly our principle Xylem Pumps & Systems.



The Company runs on a platform of continuous improvement using a dedicated service and maintenance team getting feedback on past experiences and studies to enhance in system design and quality up to market requirements.

With top quality of work and technically competent, dedicated team of professionals, MACS has the capacity to provide turnkey solutions to high profile Clients nationally & internationally.

MISSION

Guided by our vision we shall deliver high-quality, cost effective works on schedule and enhance our Client's satisfaction through continuous improvement of our business practices in terms of safety, quality, services, delivery, as well as environmental protection.

Our commitment to excellence, integrity, diversity of experience and team collaboration allows us to exceed our Client's expectations on every project & to develop and maintain long lasting customer relationships.



VISION

We strike to become the leading and most reliable MEP contracting company in UAE, continuously conforming to our ever-growing professional and ethical demeanor as well as a quality assurance standards to earn the privilege of being your entrusted business partner.

VALUE

To provide our Clients with the highest standards of contracting services, we at MACS-MSD are proud to have been an efficient and successful partner to many reputed and established names throughout our history.

This success could not have emerged without our belief in the core values of trust, attention to detail and reliability.

Our value are shown by our commitment to achieving and maintaining the highest standard of work.

Burj Khalifa, Dubai, UAE.

The Burj Khalifa opened in 2010. Xylem's custom-designed variable speed booster sets distribute 1000m of water everyday all the way up to the top floor of the 830m building.

Water supply:
6 water transfer sets and 7 pressure booster sets.

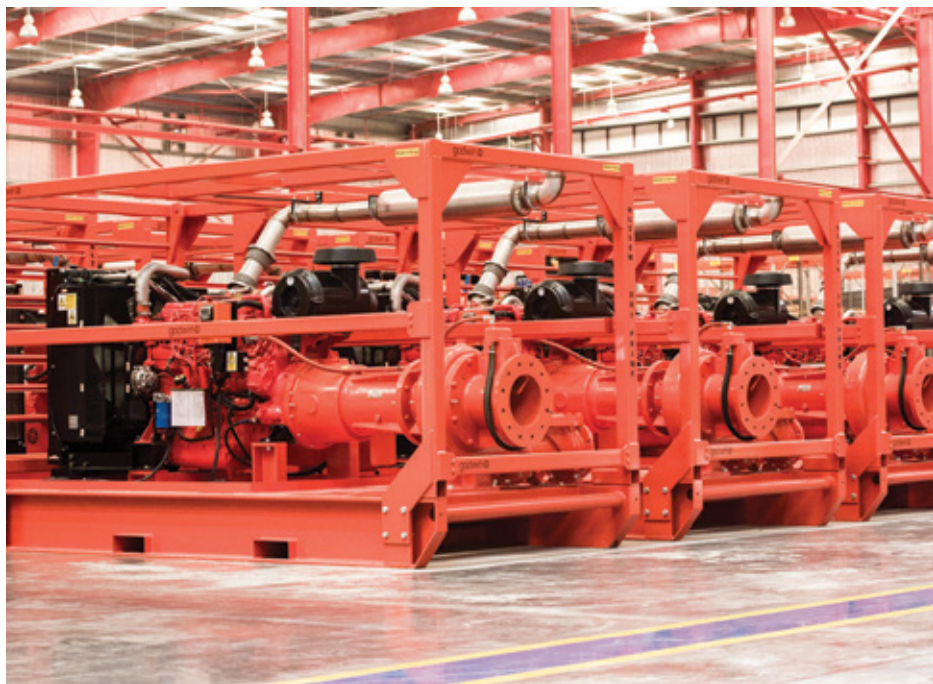


OUR PARTNER



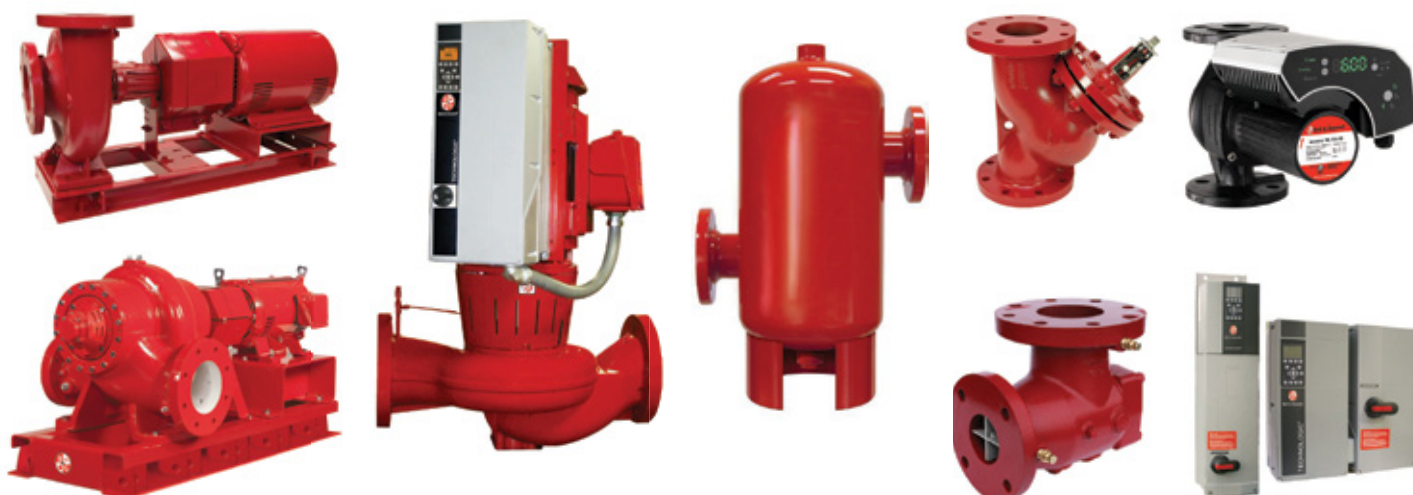
State-Of-The-Art Manufacturing:

- Dedicated production lines with modern tools to build the pumps
- Cutting-edge, regional pump performance testing facility
- Hi-tech data acquisition system to monitor and process real time pump performance
- Performance testing as per HI 14.6 and ISO 9906 Standards for all related grades
- FAT (Factory Acceptance Test) capability enabling customers to view pump performance before shipment
- Third party witness testing capability i.e. from SGS, BV, etc.
- NPSH testing capability
- Machining facility for dynamic balancing of impellers
- Pump painting to customer requirements



Hydronic Pumps and Accessories

 **Bell & Gossett**
a xylem brand



Surface Pumps

 **GOULDS**
WATER TECHNOLOGY
a xylem brand

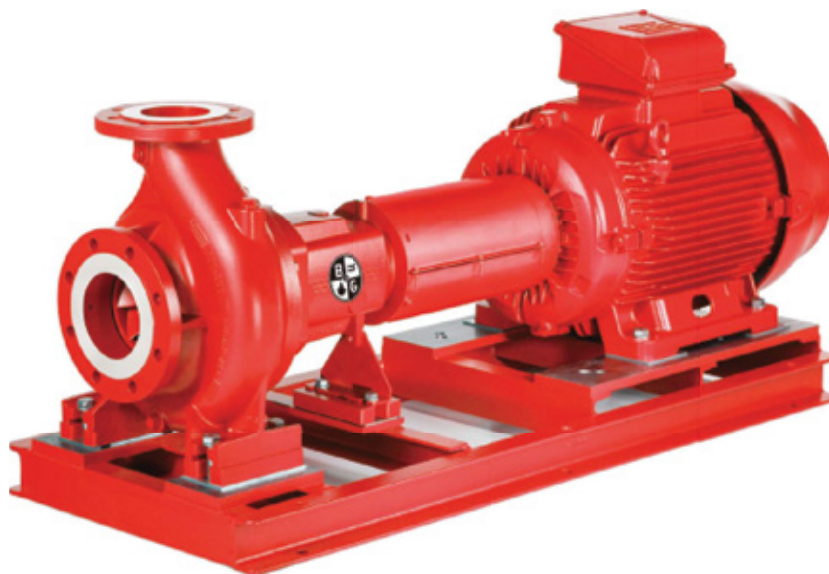


Drainage System

Steady
a xylem brand



HYDRONIC PUMPS & ACCESSORIES



The most mature back-pull construction

The use of most mature back-pull construction make the disassembly maintenance very easy. The disassembly do not need to move the pipe system, the casing or the motor. Moreover, the pump end can be easily pulled out by one person with very simple tools, this largely reduce the assembly and maintenance workload and save more than 50% of pump shut off time for the maintenances.



Stub-shaft

e1631



e1610

Frame Mounted

e1610/e1631 Series



Bell & Gossett

a xylem brand

Product Scope:

Spec: DN32~DN300

Power: 1.1kw~315kw (2 poles)
0.55kw~315kw (4 poles)

Head: Up to 160m

Flow: Up to 1900m³/h

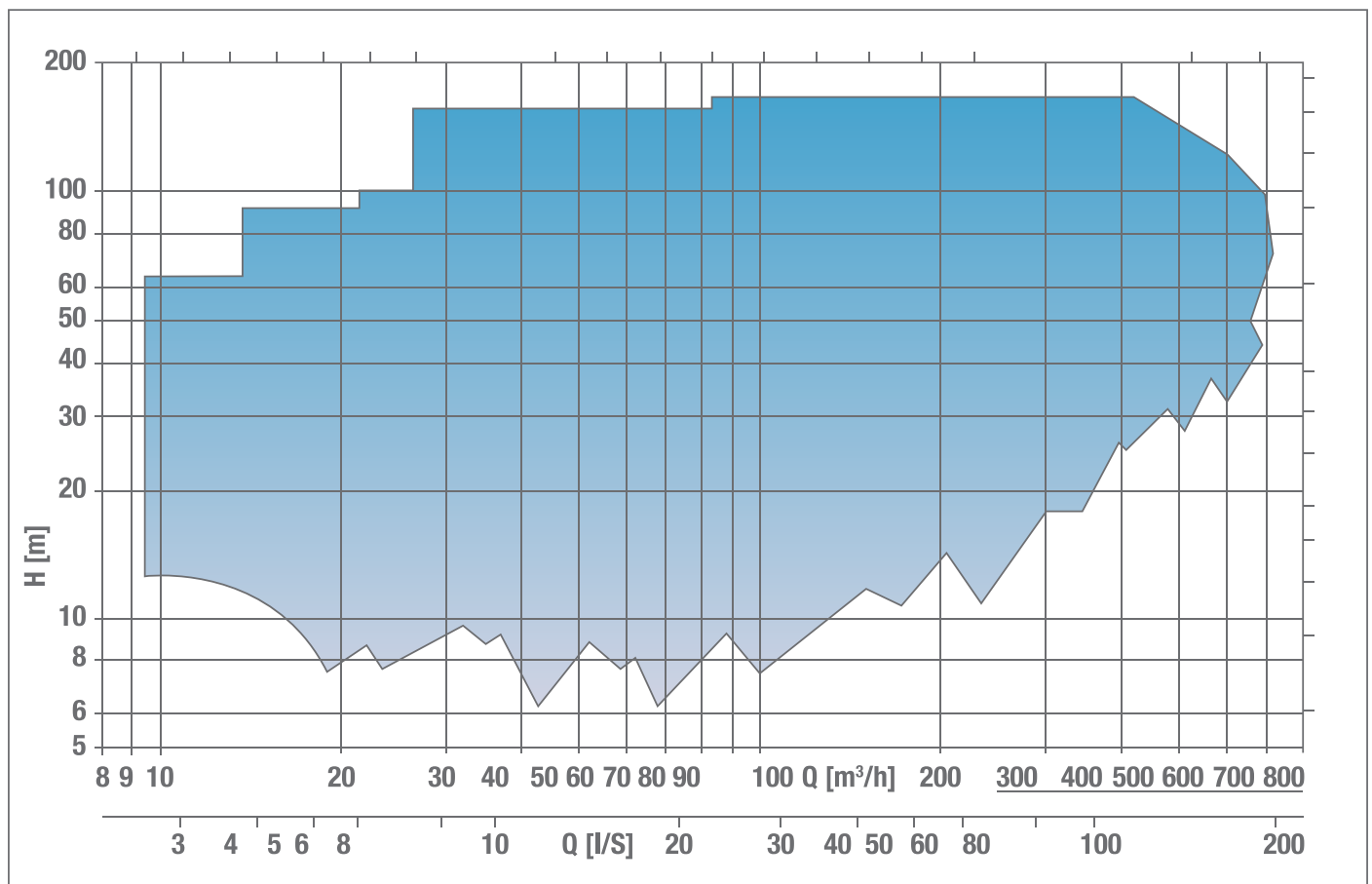
Working Pressure: PN16

Pump liquids temperature:
-25°C~120°C (140°C for special configuration)

Please refer to factory if high temperature required.

Material construction:

Casing	Impeller	M-seal	M-seal Elastomer
Cast Iron	Cast Iron	SiC	EPDM
Ductile Iron	Bronze	Graphite	FKM
SS 304	SS 304		
SS316	SS316		
Duplex Stainless Steel	Duplex Stainless Steel		



High-Efficiency End-Suction Pump

HYDRONIC PUMPS & ACCESSORIES

Features & Benefits

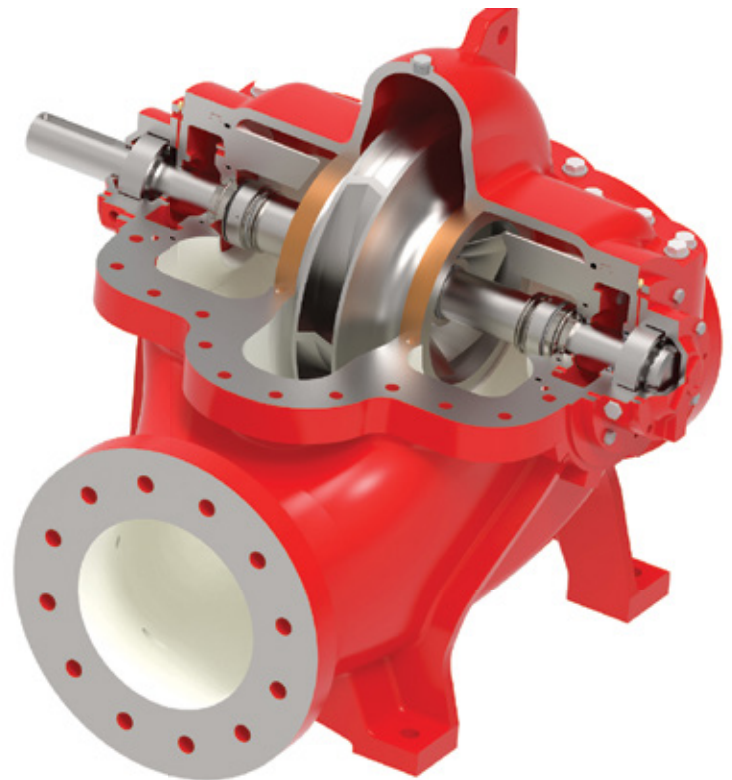
- **Longer running life:**
thanks to the shorter shaft that reduces the vibrations, this pump can run up to 3x as long (100,000 hours within the preferred range) before the bearings need to be changed.
- **Ease of serviceability:**
to save time and reduce downtime, the mechanical seal and bearing can be easily accessed without opening the upper casing. And with the standard spacer coupling, both can be changed easily.
- **Peace of mind:**
backed by Xylem's responsive, knowledgeable distribution network, this pump offers the reliable service and rugged engineering you expect from the world's leading water technology company.
- **More powerful:**
with a flow rate of up to 26,600 gpm, the new e-HSC can easily handle large capacity systems and higher head.
- **Suitable for any installations:**
the design of the seal chamber and mechanical seals works with any incoming pressure and eliminates the need for an external flushing solution.
- **More efficient:**
each model has been optimized to balance efficiency and suction head requirements, and the completeness of the range means that there is a pump for every flow requirement within %10 of BEP.

Applications

- Chillers
- Cooling towers
- Distributive pumping
- District cooling and heating applications
- Primary & secondary pumping for HVAC
- Process application in HVAC Markets

Technical overview

- Number of versions: 90
- Maximum flow: 26,600 gpm
- Maximum head: 870 ft.
- Nominal pressure: 175 psi up to 400
- Temperature range: 4-OF to 250OF
- Casing: Cast Iron with optional Ductile Iron
- Flange pressure: 5 Standard 150lb design, optional 250lb design
- Impeller: AISI 304 with optional Bronze and 316 SS
- Standard mechanical seal: Carbon/Sic
- O ring: EPDM



Series e-HSC Double Suction Centrifugal Pumps

Series VSX



A robust, base-mounted, double-suction pump with a vertically split casing. Three different suction and discharge flange orientations provide identical hydraulic performance while enhancing equipment room layout flexibility.

Model VSX-VSC

vertical suction and discharge flanges create an extremely compact space-saving design that allows up to 8,000 lbs. static loading per nozzle.

Model VSX-VSCS

combines a vertical discharge flange with a side suction flange while maintaining a small footprint design.

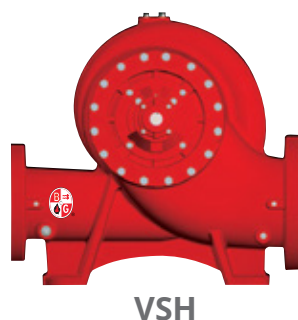
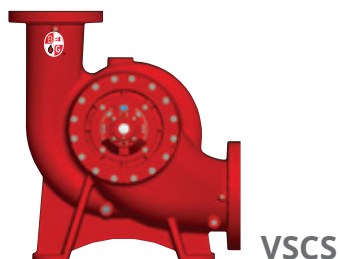
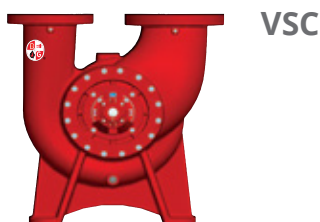
Model VSX-VSH

provides the traditional side suction and side discharge flanges.

VSX discharge sizes range from 4" to 18", with flows to 25,000 GPM, heads to 530 feet and motors to 3,000 HP. Standard features include a groutless, heavy gauge base plate, alignment friendly coupling and an ANSI/OSHA compliant coupling guard. Service is simplified with maintenance-free bearings and an internally flushed one-piece unitized mechanical seal. Both the bearings and mechanical seals can be replaced without removal of the rotating assembly, reducing the down time for servicing the pump. The VSX is available in bronze-fitted construction with working pressures up to 300 psig.

APPLICATIONS:

HYDRONIC HEATING AND COOLING SYSTEMS, CONDENSER WATER, COOLING TOWERS, REFRIGERATION AND GENERAL SERVICE



VSX Series Double Suction Split Case Pump

HYDRONIC PUMPS & ACCESSORIES

Triple Duty® Valves



A combination shut-off, center-guided non-slam check valve and calibrated balance valve in one device. The combination of three valves in one minimizes cost and reduces installation time. Available in angle or straight pattern in 1" through 16" sizes; in flanged, grooved or NPT connections. The Triple Duty Valve has a cast iron body, brass seat, cast bronze disc and SS stem.

A calibrated nameplate and memory button allow return of the valve to the balanced position after shut-off. The backseating valve stem allows repacking under full-line pressure.

APPLICATIONS:
HYDRONIC HEATING & COOLING SYSTEMS, GENERAL SERVICE AND INDUSTRIAL

Suction Diffuser Plus



**PREMIUM
EFFICIENCY
PRODUCT**

An angle-pattern flow-straightening fitting that features our patent pending Flow Cone and combines a diffuser-strainer orifice cylinder and full-length straightening vanes to provide ideal flow conditions for the pump suction, maximizing pump efficiency retention. Sizes from 2/1-1" to 10" in NPT and flanged connections. Maximum pressure

is 175 psig. Cast iron body, steel straightening vanes and orifice cylinder are standard. SS straightening vanes and orifice cylinder are optional. A bronze start-up strainer is standard. Optional PT ports. All internal components are replaceable.

APPLICATIONS:
HYDRONIC HEATING & COOLING SYSTEMS, GENERAL SERVICE AND INDUSTRIAL

Rolairtrol® Air Separator



A full-flow separator to remove or eliminate entrained system air. Standard models from 2" to 24." Custom units in sizes 26" and larger. Flow rates to 17,000 GPM at 125 psi and 350oF. All units are ASME coded. Flanged or grooved connections on 3" and larger. The Rolairtrol is available with a strainer as the R model, or without a strainer as the RL model, for a lower pressure drop.

APPLICATIONS:
HYDRONIC HEATING & COOLING SYSTEMS, GENERAL SERVICE AND INDUSTRIAL

TECHNOLOGIC® Variable Frequency Drive



**PREMIUM
EFFICIENCY
PRODUCT**

The TECHNOLOGIC Intelligent Pump Controller from Bell & Gossett combines a market-leading variable speed drive with over 100 years of experience in designing and installing high performance pumping systems in commercial buildings. The TECHNOLOGIC provides variable speed pumping to control speed, pressure, flow and level over a wide range of hydronic system applications. Variable speed ensures your HVAC pumps operate efficiently and reliably. Programming with the setup Genie simplifies the setup process and ensures

proper system configuration and protection. The TECHNOLOGIC is available with a NEMA 3, 12, 1R or 4X enclosure rating.

- Sensorless or Sensored Control
- Built-in BACnet, Modbus RTU, N2 Metasys
- 2 analog inputs, 1 analog output
- 4 digital inputs, 2 digital outputs
- 2 programmable relays
- Mains disconnect with optional fuses
- Optional Bypass

APPLICATIONS:
HYDRONIC HEATING AND COOLING SYSTEMS, GENERAL SERVICE, COOLING TOWERS AND INDUSTRIAL



Pump Accessories / Drives



Bell & Gossett

a xylem brand

Technologic IPC

Variable Speed Controller

The new **Technologic IPC** variable speed controller brings the latest in pump drive technology and programming. The drive and interface are designed to give you advanced capabilities that help you effectively and efficiently operate your system. It provides variable speed pumping to control speed, pressure, flow and level over a wide range of hydronic system applications.



Optimized for Pumps

- Wide range of standard and permanent magnet motors with power up to 600 hp/450 kW.
- Developed by pump experts and optimized for controlling pumps.
- Pump and system protection parameters designed specifically around hydronic systems.



Helping to Improve your Performance

- **NEW** - Multi-pump configuration for up to four (4) pumps - no need for PLC
- **NEW** - System redundancy with multi-master control in case of drive failure
- **NEW** - Single sensor for multi-pump control (fixed master)
- Speed lag control enables you to control one (1) variable speed pump with up to two (2) fixed speed lag pumps triggered by relays
- Automatic energy optimization regulates output voltage to improve system efficiency as loads change
- Built-in pump protection for end of curve, flow compensation and no/low flow
- **NEW** - All zone fail custom control
- Bypass panel option for across-the-line motor operation

Standard for every drive

- Wide range of voltage and enclosure options
- True 208V coverage
- Dedicated single-phase input
- Remote commissioning and monitoring with USB connectivity and software
- In-panel or handheld keypad with backlit display
- Alarm Log for last 5 alarms and maintenance events
- EMC/RFI filters and Dual DC-link reactors to reduce drive noise emissions and interference
- I/O expansion cards, factory installed or field configured

Technologic IPC
Variable Speed Controller

SURFACE PUMPS

Genyosystem

Range of packages composed of a pump equipped with Genyo, a compact electronic device, pressure/flow switch for control and protection. Genyo enables automatic control of pump start-up and shutdown based on actual water demand, preventing any pressure fluctuations at delivery points with a constant operating point. Genyo integrates multiple system controls into a single device.

Applications:

- Domestic pressure boosting (single and multi-family dwellings)
- Small irrigation and gardening
- Bathing establishments, campgrounds, sporting facilities

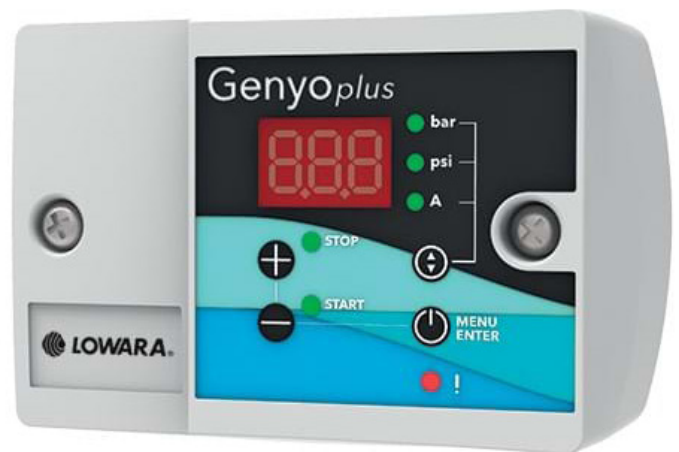


Genyo plus is an electronic pressure switch with an integrated digital pressure gauge and complete pump protection set. It can manage the start and stop of single-phase electric pumps up to 3 HP (2.2 kW). Three operating modes (differential, reverse and synchronized) provide extreme versatility.

Cut-in and cut-out pressure set points can be easily and accurately set through a user-friendly interface. Genyo plus includes also instantaneous current reading as well as overcurrent, dry-running and fast cycling protection. Genyo plus is WRAS certified for drinking water use, and can work in parallel with another unit to control two-pump booster sets.

COMPLETE PUMP PROTECTION

- Dry-running protection with automatic reset test
- Overcurrent protection
- Fast-cycle protection: when the hydro pneumatic tank has lost the air and frequent start-stops are produced an alarm is activated



SPECIFICATIONS (Genyosystem)

Delivery: up to 120 l/min (7.2 m³/h)

Head: up to 53 m (5.2 bar)

Power supply: single-phase 50 and 60 Hz

Power: up to 1.1 kW

Water temperature: °C to °40+C

Residential Single Pump Booster Sets

ResiBoost units

Range of packages composed of a pump equipped with ResiBoost, a variable frequency drive for constant pressure systems. ResiBoost automatically controls the speed of the pump while keeping the pressure in the system constant.

The ResiBoost is specially designed for maintaining constant pressure independent of flow for maximum comfort. Precise speed control results in significant energy savings. Top quality components guarantee high reliability and a troublefree life. The inverter has inbuilt protection against various system and electrical faults. Smooth operation and soft starting ensure silent running and an extended pump life. With easy-to-install pipe or wall mounted versions available, set up is simple and quick.

ResiBoost is available with:

- VM: close coupled, vertical multistage pumps
- e-HMTM: highly efficient, horizontal multistage pump with best in class efficiency and IE3 motors fitted as standard.
- BG: Close-coupled, self-priming centrifugal pumps with built-in ejector system, designed to remain primed even in the presence of water-dissolved gases.



SPECIFICATIONS (ResiBoost units)

Flow up to: 7.2 m³/h (water cooled), 14 m³/h (air cooled)

Head up to: 70 m (water cooled), 96 m (air cooled)

Power supply: 50 Hz

Residential Single Pump Booster Sets

SURFACE PUMPS

GXS20, GMD20 Booster Sets

Extensive range of 2 pump sets controlled by pressure transducers or pressure switches, with constant speed operation.

The range has been designed for residential water supply.

The GXS20 and GMD20 booster sets are available with BG, CEA, e-HM and e-SV series pumps.

The GXS20 and GMD20 booster sets with e-HM and e-SV series pumps are certified for use with drinking water according to WRAS, ACS and D.M. 174.



GXS



GMD

SPECIFICATIONS

Delivery: up to 62 m³/h

Head: up to 160 m

Power: up to 4 kW

Maximum operating pressure: 16 bar

Residential Booster Sets

SMB Variable Speed Smart Booster Set

The SMB series variable speed booster sets are designed for water pressure boosting and transfer. They use the latest technology to easily deliver water at the correct pressure and flow for residential and light commercial applications such as:

- Apartments, single- and multi-family houses, condominiums, residential buildings
- Hotels, restaurants, spas
- Industrial applications and others

The SMB series booster sets are equipped with Smart pumps to save money and reduce lifecycle costs, featuring:

- Ultra-premium IE5 permanent magnet motors for best-in-class efficiency
- Power drive system (drive and motor) in the highest efficiency class, IES2
- Hydraulic pump designed for exceptional Minimum Efficiency Index (MEI) ratings

SMB booster sets are available with two and three pumps:

- e-HME series: horizontal multistage, stainless steel pumps
- e-SVE series: vertical multistage, stainless steel pumps
- VME series: vertical multistage, close-coupled pumps

Benefits:

- Compact design. SMB is also available with e-SVE..R pumps to fit installations where limited footprint is a must
- Money saving and lifecycle costs reduction thanks to IES2 and the highest hydraulics efficiency
- SMB booster sets with 2 and 3 pumps are certified for drinking water use (WRAS, ACS and D.M.174)
- SMB booster sets are easy to commission and operate, thanks to a friendly interface with preset parameters
- Communication via Modbus and BACnet is possible
- Quiet performance
- Reliability

SPECIFICATIONS

Delivery: up to 90 m³/h

Head up to: up to 150 m

Liquid temperature: up to 80°C

Power: up to 1.5 kW per pump



Residential Booster Sets

SURFACE PUMPS

GHV Variable Speed Booster Sets

The GHV series booster sets are fully automatic booster sets for water supply, water pressure increase and water transfer in condominiums, office buildings, hotels, public buildings, industries and other applications.

The GHV series is equipped with 4-2 variable speed pumps, each one fitted with a Hydrovar HVL variable frequency drive, pressure transmitters and control panel, all mounted on a frame for easy installation. The GHV series is easy to program, designed for maximum energy efficiency and can communicate with a BMS system via Modbus or BACnet.

The GHV series can be fitted with e-SV vertical multistage pumps.

The GHV series is certified by WRAS, ACS and D.M. 174 for use with potable water.

Special sets with up to 8 pumps and other versions are available on request.



Applications:

- Hospitals
- Schools
- Public buildings
- Industries
- Hotels
- Condominiums
- Sports facilities
- Mains water systems



SPECIFICATIONS

Delivery: up to 640 m³/h

Head: up to 160 m

Power: up to 22 kW

Maximum operating pressure: 16 bar

Commercial Booster Sets

GS Fixed Speed Booster Sets

The GS series booster sets are fully automatic booster sets for water supply. They are equipped with 3-2 fixed speed pumps (where one can be a jockey pump), control panel, SM30 controller and pressure transmitters, all mounted on a frame for easy installation. The SM30 is easy to set and can be connected to a BMS system via Modbus.

The GS series booster sets can be fitted with vertical e-SV multistage pumps.

The GS series booster sets are certified for use with drinking water according to WRAS, ACS and D.M. 174.



SPECIFICATIONS

Delivery: up to 630 m³/h

Head: up to 160 m

Power: up to 55 kW

Maximum operating pressure: 16 bar

Commercial Booster Sets

SURFACE PUMPS

Smart Pump Range (e-SM drive)

Xylem Lowara's most energy-efficient permanent magnet motor with integrated variable speed drive taking motor efficiency to a new level.

- Power up to 1.5 kW
- Can link up to 3 pumps
- Can be coupled with most Lowara pump units
- Reduced energy / CO2 / life cycle / running costs
- Easy to commission
- Less wear and less mechanical stress to the pump unit
- Works with your system to make it efficient
- BACnet and Modbus as standard (card required for multi-pump)
- Compact design
- Single phase input
- Sensorless version for e-LNE pump
- IES2 compliant when fitted with IE5 Lowara Motor



Hydrovar Variable Speed Drives

Hydrovar is the intelligent pump controller that matches the performance to the demand. The system consists of a variable speed drive (VSD), a control card, sensors, EMC filters and motor/system protection.

There's no need for an external control panel when using Hydrovar.

The Hydrovar is easily mounted directly on the motor of the pump and will fit on any standard IEC motor. This makes the Hydrovar an excellent choice for retrofitting and upgrading of fixed speed systems.

Control offering

- Multi-pump capability from 1 to 8 pumps
- Constant pressure
- Constant flow
- According to system curve
- Via an 20-4 mA or 10-0 V external signal

SPECIFICATIONS

Power: from 1.5 kW to 22kW

Power supply: single or three phase 50 or 60 Hz

Communication: RS485 interface, BACnet, Modbus, Wi-Fi card (optional)



Monitoring & Controls

The new Lowara ecocirc XL and XLplus are wet rotor circulators that provide state-of-the-art technology in hydraulics, motor and intelligent controls.

The ecocirc XL and XLplus are everything you need in a large wet rotor circulator. The purposefully engineered, easy-to-install ecocirc XL and XLplus are designed with simplicity and efficiency in mind.

High efficiency

Different operation modes adopted to all real life situations

- Automatic proportional pressure control (Δp_v)
- Constant pressure control (Δp_c)
- Differential temperature control (ΔT) - Manual set constant speed
- Night mode

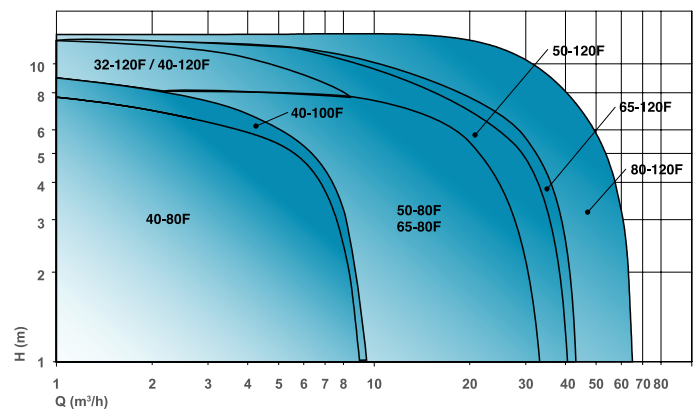
Easy to install and start up, no advanced programming necessary

Clear display and easy setting with touch buttons

For hot and cold media including secondary hot water

Communicate with Modbus RTU and BACnet systems (XL plus)

Can be controlled from a laptop, tablet or smartphone via built in WiFi (XL plus)



SPECIFICATIONS

Single and twin head models in cast iron or bronze

Head: up to 12 m

Flow: up to 62 m³/h

Temperature range: 10°C + 110°C

ecocirc XL & ecocirc XLplus

DRAINAGE SYSTEMS

With a variety of model and Steady 1300 impeller combinations, it's easy to find a pump for your needs. The optimized impeller design ensures efficient solids handling capability, smooth operation, and increased savings from reduced maintenance costs and lower energy consumption.

All pumps in the series feature a motor designed for reliable operation in submersible applications. The motors have F-class insulation, which allows for continuous running without overheating, ensuring optimal cooling and long lifetime. Additionally, the pumps can handle 15 starts per hour without problem.

The hydraulic design of the pumps has been proven to reduce clogging and maintain efficiency. These pumps simply work—and keep on working. Day in, day out, and under harsh conditions, they won't let you down—they're Steady.



Application areas, Commercial, Municipal, Industrial

- Sewage pumping stations
- Wastewater pumping stations
- Drainage
- Ground water
- Retention basins
- Storm water pumping stations
- WAS pumping
- Elevator pit

Available, Value for money & Reliable

Robust

All components are made from robust materials for easy maintenance and long life.

Powerful

Motor is specifically designed for reliable operation in sub-mersible applications. It can run continuously without over-heating – a true workhorse.

Durable

Heavy-duty bearings with long life provide peace of mind.

Smooth

The double mechanical seal provides extra reliability and protects against leakage.

Environmentally friendly

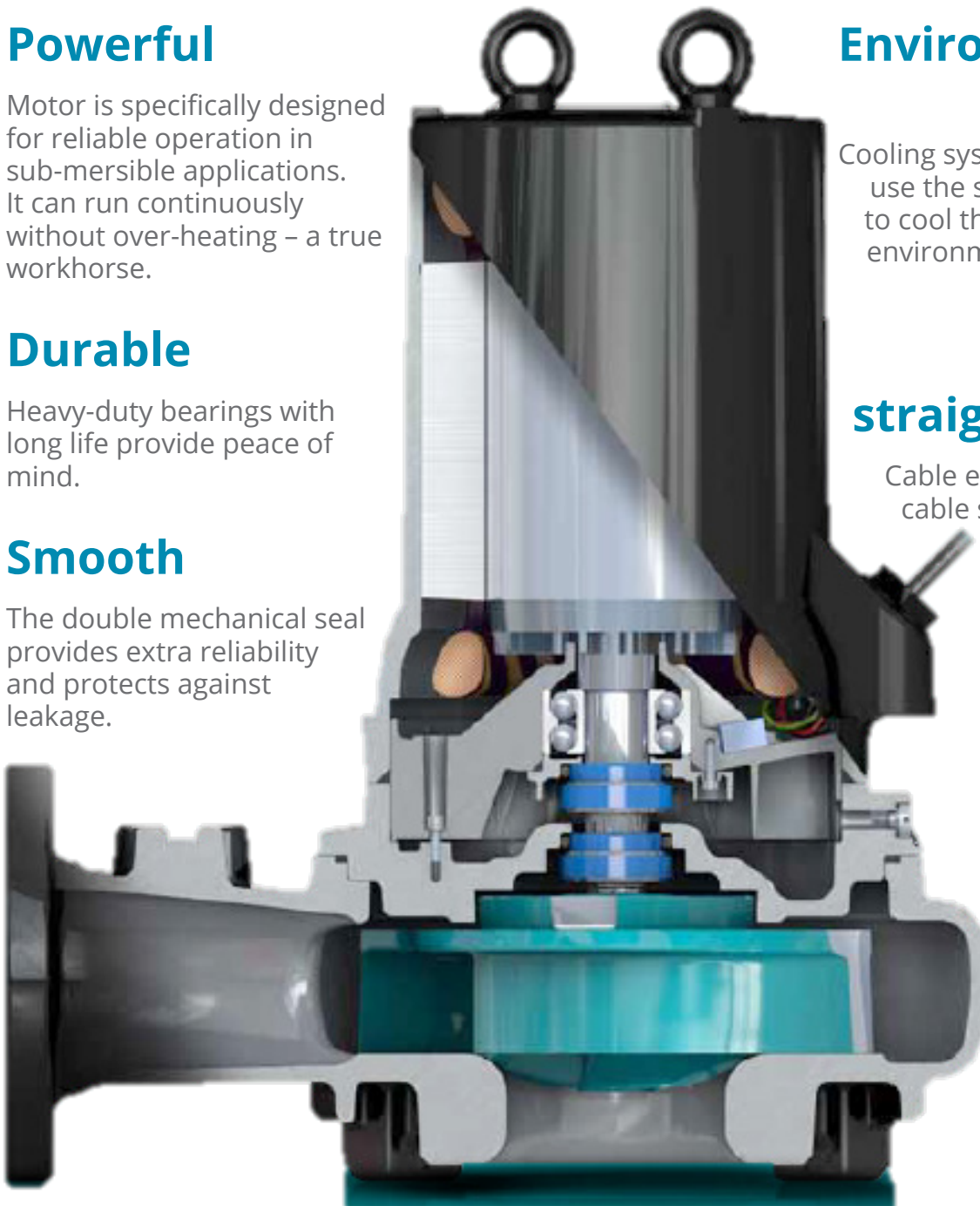
Cooling system is designed to use the surrounding media to cool the pump; no use of environmentally hazardous fluids such as oils.

Safe and straightforward

Cable entry prevents both cable strain and leakage.

Flexible

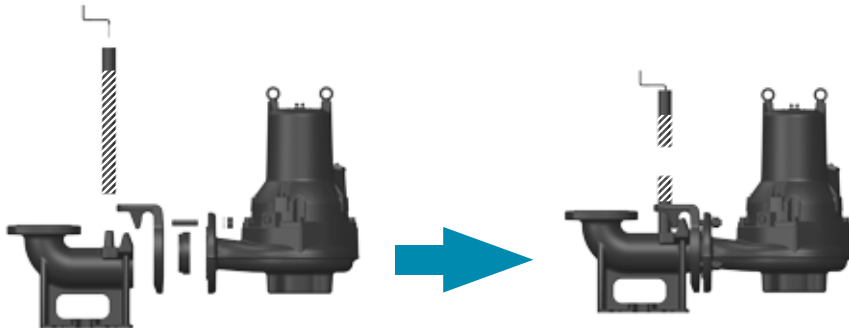
Drilled pump housing, ready for any installation method.



Tough to beat

DRAINAGE SYSTEMS

The Steady 1300 series is designed to fit your needs. You start with a bare pump and order the right kit depending on your desired installation method.

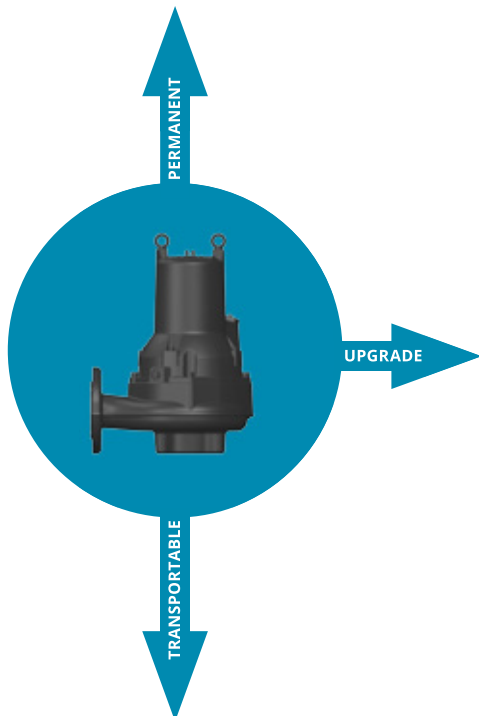


Wet-well kit

The pump is installed with twin guide bars on a discharge connection.

Kit Contents:

- Discharge connection
- Anchor bolts
- Guide claw with bolts
- Upper guide bar bracket with bolts

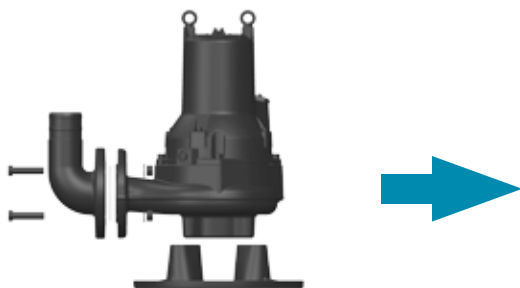


Replacement kit

Simple kit to replace an old pump or upgrade to a larger model

Kit Contents:

- Guide claw with bolts



Free-standing kit

Ideal for portability

Kit Contents:

- Hose connection with bolts
- Stand with bolts

Installation Methods and Accessory kits



Steady 1305 Non-clog

- Maximum flow 14 l/s
- Maximum preassure 17 m
- Motor Rating 1.2 - 0.75 kW
- Outlet 50 mm
- Weight 30 kg



Steady 1305 Vortex

- Maximum flow 10 l/s
- Maximum preassure 11 m
- Motor Rating 1.2 - 0.75 kW
- Outlet 50 mm
- Weight 30 kg



Steady 1310 Non-clog

- Maximum flow 18 l/s
- Maximum preassure 25 m
- Motor Rating 2.4 - 1.4 kW
- Outlet 80 - 50 mm
- Weight 46 kg



Steady 1310 Vortex

- Maximum flow 16 l/s
- Maximum preassure 16 m
- Motor Rating 2.4 - 1.2 kW
- Outlet 80 - 50 mm
- Weight 46 kg



Steady 1315 Non-clog

- Maximum flow 54 l/s
- Maximum preassure 30 m
- Motor Rating 4.4 - 1.8 kW
- Outlet 100 - 80 mm
- Weight 95 kg



Steady 1315 Vortex

- Maximum flow 44 l/s
- Maximum preassure 15 m
- Motor Rating 4.4 - 2.2 kW
- Outlet 100 - 65 mm
- Weight 95 kg



Steady 1320 Non-clog

- Maximum flow 74 l/s
- Maximum preassure 41 m
- Motor Rating 7.5 - 3.5 kW
- Outlet 100 - 80 mm
- Weight 156 - 130 kg



Steady 1320 Vortex

- Maximum flow 54 l/s
- Maximum preassure 29 m
- Motor Rating 7.5 - 3.5 kW
- Outlet 100 - 80 mm
- Weight 156 - 140 kg



Steady 1325 Non-clog

- Maximum flow 115 l/s
- Maximum preassure 63 m
- Motor Rating 18 - 9 kW
- Outlet 150 - 80 mm
- Weight 190 - 170 kg



Steady 1330 Non-clog

- Maximum flow 310 l/s
- Maximum preassure 74 m
- Motor Rating 24 - 10 kW
- Outlet 250 - 100 mm
- Weight 420 - 300 kg



Steady 1335 Non-clog

- Maximum flow 492 l/s
- Maximum preassure 55 m
- Motor Rating 50 - 18 kW
- Outlet 300 - 150 mm
- Weight 760 - 580 kg

Right Pump For Your Needs

UNPARALLELED SUPPORT

Our Services extend to be an engineering solution provider more than simply supply and delivery pumps. We always support and supervise the projects we work on to include but not limited to the following:

- **After Sales Service**
- **Testing & Commissioning**
- **Laser Works**
- **Alignment Works**
- **BIM Drawing**
- **Pump Calculations**
- **Maintenance Contracts**



Macs Quality Policy

Our principal policy is to provide customers with quality and professional services for pumping systems and related services that fully satisfy their needs.

MACS management team is committed to the principles of continuous improvement and to the successful implementation of the Quality Management Systems that ensures quality of our products, services, helps reduce cost and develop staff competency.

Constant review and audit of our Quality Management System ensures its applicability and use throughout the organization.

All employees are committed to the Quality Management System and are aware of its benefits to customer satisfaction, internal processes and the goals and objectives of MACS.

Our Quality Objectives

Our policy will be achieved through the following Objectives:

- On - time delivery to our customers.
- Effective 'Wastage Control' in our manufacturing operations.
- Innovative solutions to unique projects.
- Enhancing Customer Satisfaction.

This Quality Policy and Objectives shall be understood, implemented and maintained at all levels of the Organization as well as being reviewed periodically for its continuing suitability.





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