



XYLEM is a leader in efficient, sustainable water technologies and applications. With 12,000 employees in more than 150 countries, Xylem is committed to serve municipal water, wastewater, residential and commercial building services and industrial markets; Xylem is focused on one of the world's biggest issues - water.

Our Value Centers serve the world.

**Water Solutions** provides wastewater and dewatering pumps, biologic treatments, and filtration and disinfection products for municipal and industrial use

**Residential and Commercial Water** supports the efficient movement and use of water in homes, commercial buildings, agriculture and irrigation.

**Analytics** manufactures premium laboratory, field, portable, and online instruments for precise measurement, serving industries from environmental to educational.

**Flow Control** offers versatile industrial-grade low-flow pumps and engineered valves, with highly engineered components that stand up to harsh environments where the cost of failure is high.

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JUCE



# Providing Innovative Solutions to Global Water Challenges.



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**VSX Series**

**HVAC**

The VSX is a new series of split-case pumps with several features never before offered in the HVAC industry. The VSX Series is manufactured by Bell & Gossett. The pumps are designed to provide unparalleled performance and reliability over a wide range of applications.

Multiple suction and discharge flange configurations maximize piping possibilities and can reduce the overall equipment footprints by up to 40%. The VSX connection options include the VSC model (top suction and top discharge flanges), VSCS model (side suction and top discharge flanges) and the VSH (side suction and side-discharge flanges).

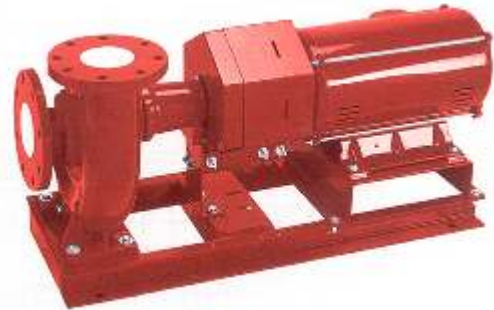
- Capacities: from 110 to 3400 m<sup>3</sup>/h
- Head: from 9 to 130 m
- Working Pressures of 12 and 20 bar
- ANSI Flange Ratings of 55 and 110 Kg
- Temperature from -15 to 150 °C
- Internally Self-Flushing Mechanical Seals
- ANSI / OSHA coupling guard
- Alignment-friendly, variable speed capable coupling
- One-piece unitized mechanical seal to simplify servicing
- Maintenance-free bearings



**1510 Series**

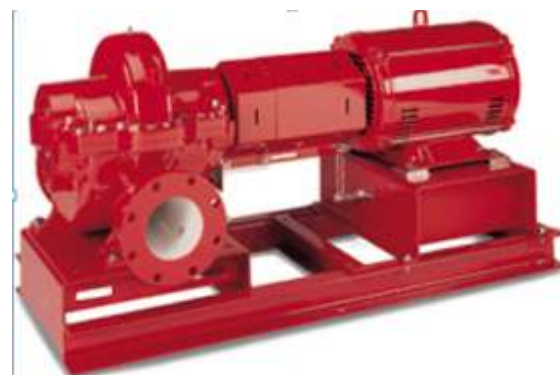
1510 series centrifugal electric pumps have a cast iron pump body and bronze/S.S impeller, S.S Shaft. Seven standard features are True back pullout, Internally self-flushing mechanical seal, Computer controlled balanced impeller, Heavy duty rugged baseplate, Solid foot mounted volute, Centre dropout spacer coupling, ANSI/OSHA compliant coupling guard.

- Capacity: 864 m<sup>3</sup>/h
- Head: 107m



**HSC3 Series**

Double-suction, base-mounted Series HSC<sup>3</sup> pumps are available in 2" through 10" sizes. Motor sizes through 300 HP. Flows to 6500 GPM and heads to 400 feet. Bronze-fitted construction with a maximum working pressure of 175 psig. The HSC<sup>3</sup> features internally self-flushing mechanical seals for maximum lubrication, debris removal and heat dissipation. The internally flushed seals allow for a shorter shaft for reduced deflection for longer seallife. Closed-end steel baseplate with full seam welds for strength and an open top for easy grouting. The pump bearings and mechanical seals can be serviced without disturbing the upper casing half, piping connections or electrical motor connections. An ANSI-OSHA-compliant coupling guard shields the flexible coupler.



**FHF Series**

The FHF Series of centrifugal electric pumps have a cast iron pump body and AISI 316L stainless steel, laser-technology welded impeller. They are suitable for pumping hot and cold, moderately aggressive liquids in a wide range of applications.

- Capacities: up to 650 m<sup>3</sup>/h
- Head: up to 100 m
- Max. temperature 140 °C



**FCE- FCS- FCT Series**

The FC and FCT in-line centrifugal pumps come in single and twin versions, suitable for handling hot or cold moderately aggressive liquids. They have a cast iron pump body, with an AISI 316L stainless steel impeller entirely welded using laser technology (for models with 40, 50 and 65 nominal port diameter).

- Capacities: up to 330 m<sup>3</sup>/h
- Head: to 89 m
- Power: to 22 kW
- Max. temperature 140 °C



**TCR, TC and FC Series**

The TCR, TC and FC circulation pumps are perfect for water circulation in heating, air-conditioning and storage systems. The options include single and twin wet rotor circulators and fixed and variable speeds. The dimensions, connections and powers all correspond to market standards for simple integration in existing systems and the replacement of most pumps and products in use today.



### TCB and TCS Series

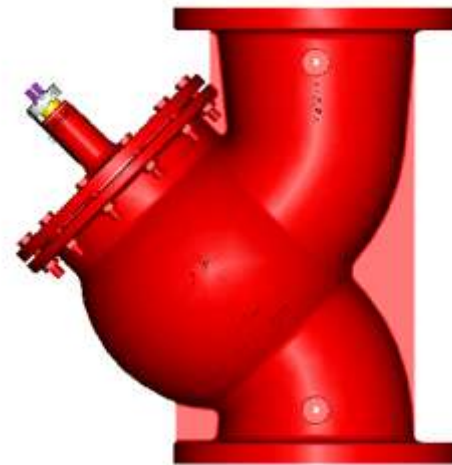
The TCB and TCS Series are designed to circulate sanitary hot water at a maximum temperature of 60°C, ideal for the bathroom or kitchen. Constructed in bronze (TCB) or stainless steel (TCS), these pumps are provided with reliable protection against corrosion.



### Triple Duty Valve

Lowest Pressure Drop  
ASHRAE 90.1 Energy Efficient Design  
Three Valves in one!

- Nonslam drip-tight check valve
  - Positive shutoff valve
  - Calibrated system balance valve
- EPDM Disc Soft Seat Design  
Repack Under Pressure  
Brass Seat & Bronze Disc  
Stainless Steel Stem  
Multi-turn Valve (8-9 turns) vs 1/4 turn range of control  
Available connections  
- Threaded - Flanged - Grooved  
ESP-Plus System Selection



### Suction Diffuser

Full length stainless steel straightening vanes  
Oversize cylinder assures minimum strainer pressure drop  
Pressure gauge tap  
Magnetic drain plug to protect pump seals  
Adjustable support foot  
Space saving design reduces the "footprint" size of the unit  
Available connections  
- Threaded - Flanged - Grooved  
Reducer and elbow provide multiple combinations of inlet and pump suction configurations which eliminate the need for reducer fittings  
ESP-Plus System Selection



### BG, HM, CA and CEA Series

### Water Supply

Lowara horizontal centrifugal pumps offer reliable protection against corrosion, with a casing in stainless steel and impellers in stainless steel or synthetic materials. They can be used for pumping drinking water & non aggressive chemical.

Capacities: up to 31 m<sup>3</sup>/h  
Head: up to 62 m  
Power: to 3kW



### SCUBA Series

The SCUBA Series electric multistage pumps are ideal for use in rainwater collection tanks or shallow discharge tanks with diameters of at least 5". The submersible motor is mounted directly on the pump and cooled by the pumped liquid. SCUBA series multistage submersible pumps enable rainwater to be used to irrigate lawns and gardens, in washing machines, and to flush toilets.

Capacities: up to 7,5 m<sup>3</sup>/h  
Head: to 80 m  
Maximum immersion depth: 20 m  
Temperature range: to 40 °C



### GS Series

Multi-stage centrifugal submersible pumps for clean water in 4" wells. High content of AISI 304 stainless steel. The floating impellers ensure excellent resistance to wear. Can also operate in a horizontal position.

Capacities: up to 21 m<sup>3</sup>/h  
Head: to 340 m  
Powers: to 7.5kW





### eSV Series

The highly reliable and technologically advanced eSV multipurpose pumps will satisfy the needs of a wide variety of applications, from water distribution and pressure boosting to industrial and aggressive liquids. The many different construction designs make eSV the flexible choice.

Capacities: up to 160 m<sup>3</sup>/h  
Head: up to 330 m  
Power: to 55 kW  
Temperature range: from -30 °C to 150 °C



### MSBP Booster Series

The MSBP series of variable speed water booster sets for industrial and building applications features models with 1 to 6 pumps. They are available in a variety of material configurations to suit the specific requirements of different applications, and a popular choice in municipal buildings, hospitals, multiplexes and schools.

Capacities: up to 960 m<sup>3</sup>/h  
Head: up to 330m  
Power: up to 6 x 55 kW



### FHE-FHS-FHF Series

The FH centrifugal electric pumps have a cast iron pump body and AISI 316L stainless steel, laser-technology welded impeller. Suitable for pumping hot and cold, moderately aggressive liquids, the FH series is EN 733 - DIN 24255 compliant.

Capacities: up to 700 m<sup>3</sup>/h  
Head: to 100 m  
Power: to 55 kW



### DOC, DIWA, DOMO and DN Series

### Waste Water

The DOC is a lightweight submersible pump that features an optional device for the low suction of residual water down to a height of 3 mm. It is ideal for portable use wherever flooding or leakage of water occurs, or in a fixed position in septic tanks or residential drainage sumps. It can pass solids of up to 10 mm and is equipped with a float switch.

The same performance is also offered by the DIWA Series electric pumps equipped with a surface scraper blade to ensure the maximum resistance to abrasion; and the DOMO Series with twin-channel or Vortex impeller options.

Capacities: to 40 m<sup>3</sup>/h  
Head: to 21 m  
Power: to 1,5 kW  
Solids: to 50mm



**GEN Series**

**Fire-Fighting**

With Diesel Engine pumps DFHFE Series  
The diesel range of the GEN booster sets features a diesel engine with coupling to the service pump, floor or wall mounted fuel tank and floor on on-board batteries to ensure reliable operation in the event of building power failure.

DFHFE Series  
Capacities: 1300 m<sup>3</sup>/h  
Head: 100 m



**GEN Series**

With End suction pumps FHF Series. The FHF range of the GEN booster sets features a cast iron pump body, bronze impeller and stainless steel shaft. These horizontal centrifugal pumps have many size options.

FHF Series  
Capacities: 1300 m<sup>3</sup>/h  
Head: 100 m



**A-C Fire Pump Systems and Skid Packages**

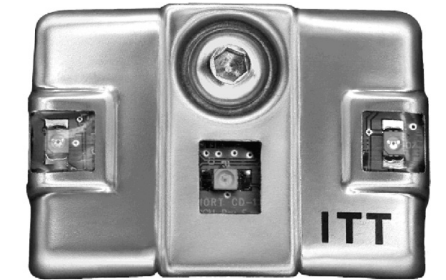
The A-C range of custom-built fire pump systems including prefabricated packages and house units that meet every fire protection need. Products include in-line pumps, end suction, vertical turbine, jockey pumps and three Split Case series. A-C Fire Pump Systems are designed in accordance with NFPA 20, FM/UL approved.



**i-Alert™ - Conditional Monitoring**

**Intelligent pumping solution**

- Continuously measures vibration - observing responses from the motor and the pump during operation.
- If pre-set limits are exceeded - the monitoring device alerts the end-user via blinking red LED.
- The i-Alert™ is also equipped with a single green LED to indicate when it is operational and has sufficient battery life.



**Technologic® 502 Series**

1-4 PUMP SYSTEMS, UP TO FOUR ZONES  
The Technologic 502 is a combination pump logic controller and variable frequency drive in a single enclosure capable of controlling up to three additional drives for a total of four pumps in parallel.

- Qualify for Green Building Incentive Programs and Rebates
- Achieve LEED Certification
- Sustainable Water Conservation and Energy Efficiency
- Reduced Environmental Impact
- Lower Electric and Water Utility Costs
- Long-Term Economic Returns



**Technologic® 5500 Series**

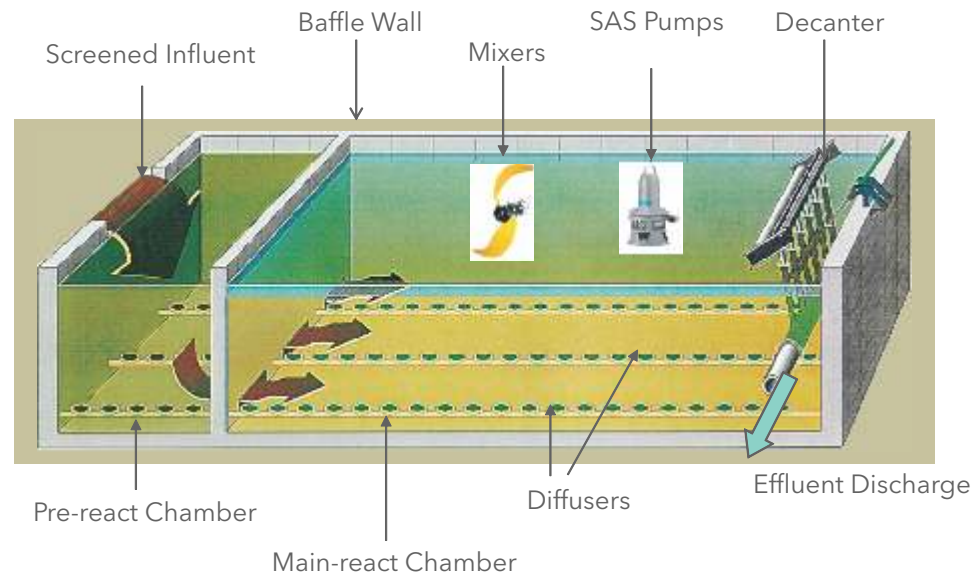
MULTIPLE PUMP MULTIPLE ZONE PUMP CONTROLLER  
The Technologic 5500 pump controller is designed to provide optimum performance, reliability and energy savings.

- Controls up to eight pumps in parallel
- Available serial port for communications to the building automation system via many popular protocols
- Control Logic developed exclusively for pumping applications
- All the performance and operator friendliness you expect from Bell & Gossett's Technologic line of controllers
- UL Listed (CSA Available)
- Modular design promotes unlimited flexibility

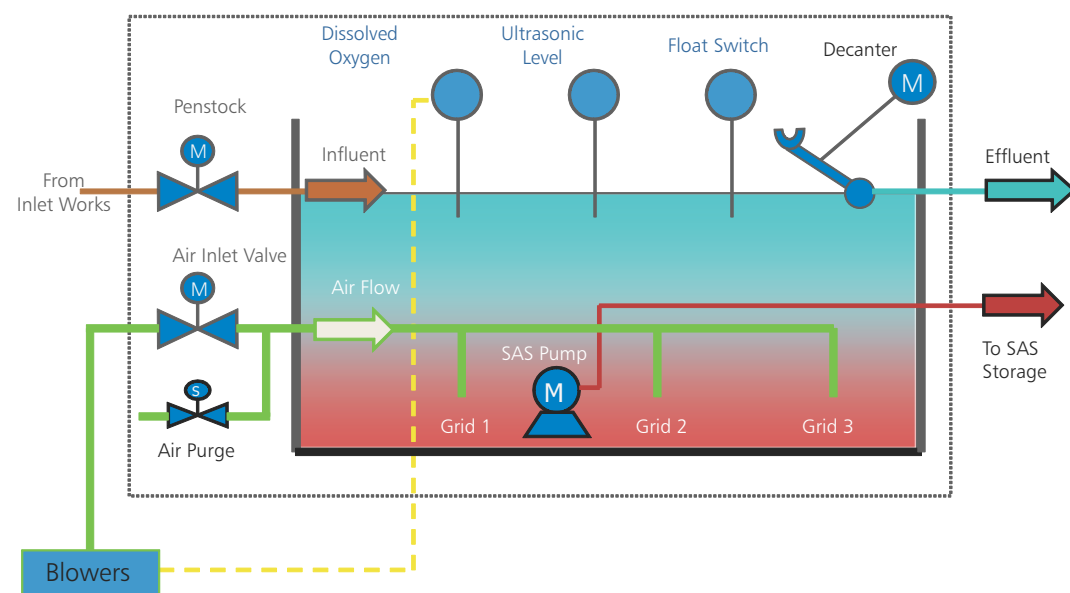


The ICEAS Basin - Layout

Waste Water Treatment



SBR Basin Equipment



Package STP Recycle Plant on ICEAS SBR Technology

A) Basis of Design:

Parameter	Unit	SBR Inlet	SBR Outlet	UF Outlet
BOD 5	mg/l	400	10	5
Total Suspended Solids	mg/l	400	10	NIL
Ammonical Nitrogen	mg/l	50	2	2
Total Kjeldahl Nitrogen	mg/l	65	5	5
Total Phosphorous	mg/l	5	1	1
Turbidity	NTU	--	7	0.2
Total Coli forms		1 X 10 <sup>7</sup> MNP/100 ml	1000 MNP/100 ml	4 Log Removal Virus
Faecal Coli forms		1 X 10 <sup>7</sup> MNP/100 ml	200 MNP/100 ml	6 Log Removal Bacteria
Temperature	Degree C	22		

Note: Most Probable Number (MPN)

B) Model Details:

Model No.	Maximum Capacity	ICEAS Size	Plant Area
ICEAS UF 01	110 m <sup>3</sup> /day	5.0mL X 3.0mW X 4.5mSWD	8.0mL X 7.0mW
ICEAS UF 02	220 m <sup>3</sup> /day	7.0mL X 4.0mW X 4.5mSWD	11.0mL X 8.0mW
ICEAS UF 03	400 m <sup>3</sup> /day	10.0mL X 6.0mW X 4.5mSWD	14.0mL X 12.5mW
ICEAS UF 04	610 m <sup>3</sup> /day	14.0mL X 6.0mW X 4.5mSWD	19.0mL X 12.5mW
ICEAS UF 05	850 m <sup>3</sup> /day	21.0mL X 6.0mW X 4.5mSWD	28.0mL X 10.0mW
ICEAS UF 06	1300 m <sup>3</sup> /day	22.0mL X 8.0mW X 4.5mSWD	31.0mL X 12.0mW
ICEAS UF 07	1800 m <sup>3</sup> /day	29.0mL X 8.0mW X 4.5mSWD	38.0mL X 12.5mW
ICEAS UF 08	2300 m <sup>3</sup> /day	33.0mL X 10.0mW X 4.5mSWD	45.0mL X 17.0mW



### Z-6" Series

Multi-stage centrifugal submersible pumps for clean water in 6" wells. Made of AISI 304 or AISI 316 stainless steel. These durable and lightweight pumps assure high-efficiency, low maintenance costs and ease of management.

Available in the high-pressure version to guarantee heads of up to 700 metres.



### GMD20 Series

Three-phase fixed-speed pressure boosters with pressure switch control. Connected to electric pumps BG, CA, CEA & HM

Capacity: up to 36 m<sup>3</sup>/h  
Head: up to 62 m  
Power: to 3kW



### TDB-TDV Series

Multi-stage vertical pumps with closed radial impellers, coupled with standard motor. Highly reliable series capable of satisfying the needs of a wide variety of users. Available in different materials to meet the needs of an extensive range of applications.

Capacity: up to 340 m<sup>3</sup>/h  
Head: over 500 m  
Power: 2.2 kW to 355 kW



### SHE-SHS-SHF series

Centrifugal pumps manufactured in AISI 316 stainless steel in compliance with EN 733 - DIN 24255. Laser-technology welded centrifugal pumps. Designed to handle hot, cold and moderately aggressive liquids

Delivery: up to 240,00 m<sup>3</sup>/h  
Head: up to 110,0 m  
Power: 0,25 kW up to 75,00 kW



### Z- 8", 10" & 12" Series

Multi-stage centrifugal submersible pumps for clean water in 8" wells. Made of AISI 304 or DUPLEX stainless steel.

This robust and lightweight pump is easy to disassemble and, its the standard configuration, resists corrosion in non-aggressive atmospheres . The guide bearings and wear rings assure high resistance to wear and constantly reliability of hydraulic characteristics over time. Can be coupled to all NEMA-standard motors.



### Steady Series

- Steady Flygt 1300 is a new series of submersible pumps that deliver top-level performance at outstanding value.
- It is ideal for wastewater, sewage and surface water pumping, in municipal and building applications.
- Six sizes to choose between - 1310, 1315, 1320, 1325, 1330 and 1335
- A selection of combination options - Discharge connection, impeller etc
- Pumping capacities from 10 to 55 m and 15 to 500 l/s

Capacities: up to 500 lps  
Head: to 55 m  
Power: up to 45 kW  
Solids: up to 92mm



### Single Pump Boosters

Small built-in pressure boosters, fully automatic. These units consist of a single phase pump, diaphragm tank, pressure switch, pressure gauge and various connectors suitable for commercial water systems. The units are fully assembled and ready to be connected to the building's water system.

Capacity: up to 6.6 m<sup>3</sup>/h  
Head: up to 56 m



### SVI Series

Immersible vertical electric pumps for the industrial and commercial sectors.

Capacity: up to 72 m<sup>3</sup>/h  
Head: up to 250 m  
Power: 0.30 kW to 22 kW

