Your Single-Source
Packaged Pumping Systems Supplier
Since 1962
SyncroFlo is an Atlanta-based manufacturer with almost 50 years in the packaged pumping system industry. In 1962 SyncroFlo was the first company to prepackage pumping systems for domestic water (plumbing) use. SyncroFlo was formed as a division of Schaub Engineering, a Chicago-based company that made power plant equipment. Until then water boosters, like many pump systems, were built on-site from an assortment of components provided by multiple suppliers. SyncroFlo started by making plumbing boosters, then municipal was added. In the late 1980’s, we started building packages for HVAC, fire protection, and turf irrigation, and grew into the company that the industry knows today. Today, our installed system base includes some of the largest pumping systems ever built. Our product lines have been qualified through the production of over 20,000 packages in 32 countries. Since pioneering the domestic water booster industry, we have maintained the quality and integrity which serve as the foundation for consistently over-delivering to each of our clients.
SyncroFlo is a leading global supplier of quality pumping solutions. We provide customer value by improving performance and product quality, reducing operating costs, and extending equipment life in a broad range of industries and solutions. These products and services are used to optimize total pump system performance, protect customer pumping investments, and protect the environment through water and energy conservation.

**Our Mission**
SyncroFlo’s mission is to be the top supplier of engineered pumping systems. We strive to offer top quality engineering at prices commensurate with value, and to meet the needs of our customers in a highly responsive manner. We work with our customers in strong and long-lasting relationships built on trust and centered around a mutual interest in quality, productivity and profitability. It is a way of doing business that gets results by providing value. Our customers’ satisfaction is based on the gains we make together, as is our continuing success as a business.

**Our Commitment**
Since 1962, our commitment to excellence has enabled SyncroFlo to become the world’s leading manufacturer of pumping stations. The SyncroFlo name has become synonymous with quality built cost-effective pumping systems. We pioneered pre-assembled pumping systems decades ago. Today, our installed base includes some of the largest pumping systems ever built.
Continuous pressure is not just a convenience, it is a safety requirement. The problem with most pump systems installed today is the lack of customization available from the manufacturer for the project. Here at SyncroFlo we have 5 specially designed product lines innovated to fit your exact needs. We select the right pump for your pressure, flow, and business needs. We tailor each project for the customer and SyncroFlo accepts complete responsibility for every booster system component.

In a typical plumbing system, it’s almost impossible to test the capabilities of the pump system on-site. Every SyncroFlo booster system and its component parts have gone thru a complete electric and hydraulic test. Testing includes a flow test from zero to 100% design flow rate under specified suction and net delivery pressure conditions. This is beyond the industry standard hydrostatic (pressure-only) test. Your only surprise will be how smoothly the startup went.

CondoFlo

The CondoFlo Booster Pump is designed for houses and condominiums of 1 to 4 unit size.

Standard Features Include:
- Up to 20 psi Boost
- Up to 50 psi Discharge Pressure
- 3/4 HP Close-coupled Pump and Motor
- Stainless Steel Pump Construction, Not Plastic
- Mechanical Seal–no Dripping Packing to Maintain
- Built-in Overload Protection
- 115/230V, Single Phase, 60Hz, Power
- 125°F Maximum Water Temperature

IronHeart

Since 1985, IronHeart has been the industry standard domestic water booster pump for commercial buildings up to 10 stories tall. With over 200 models, in both vertical and horizontal configurations, the IronHeart fits most engineering requirements for a domestic water boosters used in a typical commercial building.

Standard Features Include:
- End-Suction Pumps (Optional 316ss Pumps)
- ASME HydroCumulator Tank
- Pressure, Flow, Horse Power Sequencing
- Horizontal and Vertical Configurations
- Factory Performance Test (at Design Point)
- OSHA Compliance certified by UL & ETL
- Flanged Stainless Steel Header Construction
- NSF Certified Option
- VFD With Color Touchscreen Option
**Iron Heart Lite**
IronHeart Lite fills the void between residential duty booster pump packages and heavy-duty commercial/industrial products.

*Standard Features Include:*
- For Flows Between 10 and 100 gpm
- Pressure Boost to 40 psid
- System Pressure to 125 psig
- Simplex and Duplex Packages Available
- Close-coupled End Suction Pumps
- TEFC Motors
- Energy storage tanks using the DuoPhase concept
- ASME tanks available
- VFD and PRV pressure control options
- Industrial-duty controls
- ETL and UL certified to OSHA safety standards

**Vertical Turbine Booster**
A DuoPhase or Standard VT system uses vertical turbine pumps for superior efficiency, pressure control, system life, and reliability.

*Standard Features Include:*
- 100 – 200 psi Boost
- Up to 300 psi Discharge Pressure
- Up to 2000 gpm Total System Flow
- Column-mounted Over Storage Tanks or
- Barrel-mounted if Positive Suction Pressure Exists
- NSF 61 Annex G Option
- VFD or Constant Speed

**End Suction Booster**
EconoPhase and ES systems use end-suction pumps like the IronHeart, but with more options.

*Standard Features Include:*
- Up to 100 psi Boost
- Up to 2000 gpm Total Flow
- Positive Suction Required
- NSF 61 Annex G Option
- VFD or Constant Speed

**VMS Water Booster**
VMS systems are for use primarily in areas that need pressure requirements beyond the upper limits of the IronHeart family. VMS Systems uses vertical multistage pumps with formed stainless impellers.

*Standard Features Include:*
- 100 – 200 psi Boost
- Up to 300 psi Discharge Pressure
- Up to 1000 gpm Total System Flow
- Positive Suction Pressure Required or
- Submersible Pump Installed In-storage Tank
- NSF 61 Annex G Option
- VFD or Constant Speed
SyncroFlo has been a leading innovator in the municipal water pumping field since 1984. SyncroFlo employs a method of pre-site construction and flow testing that insures everything in the system is ready the day it’s started up. The pump station will also be adjusted and tuned to field conditions, in order to minimize delays at the job site. SyncroFlo has also become a pioneer in the industry through integration.

Single Source Responsibility
Municipal packaged pumping systems may not be placed under full load conditions until years after installation. Then, if there is a performance shortfall, it is difficult to pinpoint responsibility. With SyncroFlo you need only to deal with us, your single source.

Pressure, flow controls and safety alarms are calibrated to on-site conditions. Total system performance curves may be printed on an X-Y recorder that simultaneously plots and displays sensor inputs from pressure transducers and magnetic flow meters. All of our testing results in the elimination of field start-up problems and ensures that the system meets projected performance criteria.

Custom Engineered Solutions
Every manufacturer has its standards. With SyncroFlo, you can be sure that you have a partner with the flexibility and expertise to evaluate every possibility for the best value. That goes for both hardware and software.

Preset and Tested: a SyncroFlo tradition since 1964
Since the beginning, SyncroFlo has always flow tested its water booster systems. Current capabilities are 5000 gpm at 400 psig. Instrumentation is certified to NIST standards.
SyncroFlo's experience and expertise in variable speed technology.
We built our first pump system with electronic variable speed control systems for a wide variety of applications. We routinely deal with high pressure and rapidly changing flow rates that are much more difficult to control than the low pressure, slower acting characteristics of the typical municipal system. We apply all of this experience on our variable speed projects so that each one gets the right type of control method, without guesswork.

Third Party Communications Systems.
Our variable speed PLC programs are sophisticated and powerful. We have programmed our PLC’s to communicate with a wide variety of telemetry RTU’s in the municipal market as well as with building control systems in the Commercial and HVAC markets. In addition, we have written our own software monitoring and remote control software for use with our pump stations.

Some popular options are:
- Building Enclosures
- Outdoor Weather Protected Systems
- Complete Motor Control Centers
- Variable Frequency Drives
- Altitude Valves
- Reduced Voltage Start
- Flow & Pressure Recorders
- Remote Annunciator Panels
- Diesel Generator Sets
- Stainless Steel Headers
- Cement Lined Headers
- Fusion Bonded Headers
- Surge Anticipator Valves
- Automatic Self-Cleaning Strainers
- Other Options Upon Request

SyncroFlo will design and fabricate your system with any required components and in any specific configuration. Third Party Total System Certification through both ETL and ISO 9001

Typical Municipal Applications
- Seal Water System
- Tank Fill System
- Water Treatment High Service
- Water Treatment Distribution
- Secondary Effluent Irrigation
- Distribution and Fire Ring Main Systems
- Water Pressure Booster Station
- Plant Water System
Some pump system manufacturers are more concerned with adding cost than value. The unfortunate result? The concept of packaging HVAC pumps has come to mean over-engineered and overpriced. On the other hand, some manufacturers take too little responsibility for proper operation of their equipment.

At SyncroFlo, we have broken the link between outrageous prices and competent engineering. SyncroFlo understands that giving the customer what they need at the right price is good business. Also, we have innovated our HVAC product line so that maintenance is not an issue. SyncroFlo believes that if you build it right, HVAC systems are truly automatic and should require no tinkering. This is why we build our HVAC systems in-house. In doing so, we are able to test, adjust, and pre-certify every system that leaves this facility for both performance and safety.

At SyncroFlo, our ultimate measure of success is the long-term operation of the pump system. Field surveys prove that our product runs automatically, and within specification, more often than other manufacturers.

**SyncroFlo’s Commitment**
- Experience
- Integrity
- Customization
- Flow Testing
- Easy Installation
- Control Systems PE on staff

**Spectrum**
The Spectrum® is an affordable variable volume primary-only pump system, prepackaged, fully tested, certified before shipping to your site. Spectrum® systems can handle chiller capacities from 100 to 1,000 tons, boiler capacities from 2,000 to 20,000 MBH and typical system flow rates of up to 2,000 GPM.

**Typical equipment includes:**
- Flex-Coupled End Suction Pumps with Premium Efficiency Motors
- Integrated Air Separator/Bridge/Building Loop Return
- Suction Diffusers
- System ETL and UL Certified to OSHA Safety Standards
- 5 Million Manufacturer’s Liability Insurance
- Factory Flow Tested at Design Conditions
- Factory Trained Startup, Training, and Support

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**HVAC**
Prism

The PRISM® is an affordable primary-secondary pump end suction system concept. Prepackaged, fully tested, certified before shipping to your site.

**Typical equipment includes:**
- Flex-Coupled End Suction Pumps
- Premium Efficiency Motors
- Multipurpose Valves on Primary Pumps
- Suction Diffusers on All Pumps
- Butterfly Valve Isolation Valves
- Control by Flow and Differential Pressure Zones
- Individual Motor and VFD Circuit Protection
- Factory Assembled – not a Kit
- Factory Flow Tested at Design Conditions
- Factory Trained Startup, Training, and Support

**Options:**
- Spring Isolators for Skid
- Hoist for Pump and Motor Service
- Integrated Air Separator/Bridge/Building Loop Return
- Witnessed Flow Test
- Building Automation Interface
SyncroFlo packaged fire pumping systems save time, labor and change orders on site. Cost-effective, completely self-contained skidded or housed units precisely fit specified space requirements. Each unit is designed to require only system piping connections and a single point electrical hook-up. Enclosures are built to accommodate required environments with lighting, heating, ventilation, insulation, alarms and easy access double doors. SyncroFlo engineered enclosed pumping stations come fully sprinkled to comply with NFPA 20 and NFPA 13 requirements.

Before shipment, each pump station must pass SyncroFlo’s exceptional system of testing and quality control standards. After installation, users are supported by a network of factory trained service representatives qualified to provide on-site system service and user training. All SyncroFlo packages meet OSHA and Federal Regulation 29 CFR 1910.399 and all NFPA Standards for third party certification. Excellent design, quality construction and knowledgeable personnel provide the reliability required for a Fire Protection System. SyncroFlo is uniquely certified by two independent third parties ETL and ISO 9001 to meet the specific regulations of packaged fire pump systems, including UL 448, UL 1247, UL 1004, and UL 508.
SyncroFlo can design your fire pump station with both electric and diesel drivers. We offer inline, horizontal split case, end suction and vertical turbine pumps to meet site and flow requirements. SyncroFlo is independently owned and operated allowing us tremendous flexibility in what fire pumps we offer. This allows us to select the best fire pump for your specific application from every UL/FM fire pump manufacturer worldwide.

**Detailed Specifications**
- Built in accordance with NFPA Pamphlet 20, 25 & 70
- Third Party Total System Certification through both ETL and ISO 9001
- Fully Prefabricated
- Internally piped and wired
- Factory Installed Tamper Switches
- Factory Tested
- Single Source Responsibility

CERTIFIED
NSF 61
COMPLIANT
ISO 9001-2008
CERTIFIED
Irrigation is very important at many locations. Whether you use it for aesthetic reasons or your sales depend on green grass, it is necessary that it is reliable and it works. Most systems today are not reliable and on many occasions fail. This is mainly due to a lack of knowledge by the installer or provider. Water conservation is also a problem when dealing with irrigation. Many irrigation systems use precious drinking water. Water that is in short supply.

Here at SyncroFlo we have innovated 2 solutions that will fit every need. The Eagle® line is specifically designed for golf courses and similar high-volume, large-area applications. The Gator® line is designed for commercial & residential turf irrigation purposes. Both of these solutions will be customized and adjusted to meet each every need. Also, SyncroFlo is currently pioneering new technologies that will take water conservation to a new level. Our engineers have been able to create a irrigation system that is able to collect rain, pond, and lake water and reuse it for irrigation. With current situations of drought and with problems occurring with fresh water, environmental responsibility is key.

**Eagle**

The Eagle® line is specifically designed for golf courses and similar mission-critical turf irrigation applications.

**Specifications:**
- Up to 160 psi Discharge
- Up to 3600 gpm Total Flow
- Pumps Directly From Wet Well
- Variable Speed Drives

**Popular options:**
- Mechanical Filtration
- Lake Screen Pre-Filter
- Mag Meter Flow Measurement
- BACNET, SCADA and Other Communication Protocols

SyncroFlo designs with the operator and owner in mind. We understand that if our pumps fail, you fail. That’s why we have honed our engineering practices past the point of perfection. Some examples:

- Cast iron pump heads instead of steel. They cost a little more, but they are more durable and stable.
- We lay out our piping to maximize the pressure at the sprinkler heads.
- Our pump run switches are external to the operator interface. So you can operate the pumps even if it or the PLC are out of commission.
- We “unplug” the VFD when it is idle. This reduces the chance of crippling lightning damage by 99%.
- Any qualified technician can service our equipment. We will train and certify your favorite tech.
Gator
Gator® line is designed for more traditional commercial & residential turf irrigation purposes. We now make it in 3 levels of sophistication:

The Gator
The original is still the toughest constant-speed pump out there. If all you need is a reliable constant-speed workhorse, then that’s all you need. But you’re still entitled to the same precision engineering and reliability that comes standard in any Gator. Designed to your exact pumping specifications for flow and pressure conditions, this pumping system reacts to condition changes in a snap. The weather-resistant, powder-coated steel cabinet blends quietly into the landscape. And Gator systems are available with capacities from 30 to 250 GPM.

PropaGator VFD
A lot more Gator for just a little more green. PropaGator VFD pumping solution. Inside the lockable, weather protected, easy-access cabinet, you’ll find an impressive variable speed pump with drive-integrated controls. With a flow range of 50 to 300 gpm, the PropaGator gives you all the flexibility you need without added features that aren’t right for you. It’s a leap ahead of constant speed systems for just a little gator step ahead in price.

Propa-Gator Pro
A full featured VFD system for the most demanding turf requirements. In the turf industry, there’s no margin for irrigation error. That’s why the PropaGator Pro pumps 50 to 600 gpm from a bulletproof cast iron pump with cast bronze impeller. It performs day after day—whether the days are 40 degrees or 100+ in the desert.

The flexibility and reliability of the PropaGator Pro are unmatched. And it’s built with your mission-critical needs in mind. Alarms alert you to an irregularity in pressure, flow, power, or even the flow sensor. And if any problem should arise, the 14-gauge, powder-coated steel cabinet is designed for quick access so you can get up and running right away. Some turf irrigation situations are just tougher than others. That’s why PropaGator Pro is, too.
Since 1962, SyncroFlo has been the industry standard domestic water booster pump for commercial buildings. For each project, our goal is 100% uptime, maximum energy savings, and lowest total cost of ownership.

**SyncroFlo Variable Frequency Drive (VFD) Control Panel Technical Data:**
- Touchscreen Accessible Elapsed Time Meter(s), Power Current, System Pressure, Flow Rate, Speed, PID any Timer Setpoints
- Password Protected Touch Screen to Prevent and Undesired Field Modifications
- RS-485 Communications to Drive (VFD) Network
- VFD Status Screen Including Frequency, Current, Power, and KW Hours
- Pump Station Screen With Run Time, Starts, Alarm Conditions and Fault-Log With Time Stamps
- Programmable Maintenance Reminders
- Data Written to Removable Compact Flash Memory Card With Time and Data Stamp for Preventative Maintenance, Alarm Logging, Remote Troubleshooting and VFD Data
- UL 508 Panel
- HMI Bypass Circuit: Sound an Alarm Horn in the Event of HMI Failure
- VFD Mounted in the Enclosure up to 30hp
- IP10 Touch Safe Circuit
- Standard Includes Sequencing Flow, Pressure, VFD Speed, MaxiStore 2, and Power
- Power Restore/Fill Mode Sequence
- Startup Instruction Screens for Easy Setup
- Fan Cooled Cabinet With Thermostat Control
- Optional BACnet®/LonWorks® Integration Via Modus® Communication Output
- Optional Upgrades To Larger Displays With Extended Graphics

The GOT1000 is one of Mitsubishi’s most popular series touch screens. Alarming and animation are standard programming features. Common hardware features include an enhanced CPU.

**Features:**
- Multilevel Security Protection
- Graphical Trending, Data Sampling and Time Scheduling Functions
- Advanced Maintenance and Diagnostics
- Ultra-wide Viewing Angles
- High Speed 64bit RISC Processor
- Embedded Communication Ports
- Compact flash Expansion Slot
- Removable Flash Media/Screen Changer
- Multi Language Upgrade Available
- True Type Font
- Ease of Operator Navigation
- 3MB Onboard Memory
- Maintenance Free Design
- Custom Designed Start-up Screens Available
The FX3 Series open architecture is the original dual system-bus, high-speed, fully expandable compact PLC designed to seamlessly control communication, networking and analog. The FX3 Series uses its power and flexibility to provide a solution for a variety of applications. Over 6 million units sold, more than any other micro PLC.

**Features:**
- 3rd Generation Compact PLC
- Exchangeable Communication Expansion Boards That Mount Directly Into the Main Unit
- Integrated Real-time Clock
- Full Control of VFD Parameters Via Network
- Additional Communication Options to Third Party Devices
- Maintenance Free Design

The 700 Series is one of the most popular drives under 25kW in the world. Advanced features and functions such as USB port for commissioning and monitoring with an embedded M-dial and display. The 700 Series promises to continue Mitsubishi’s long history of providing the best micro drives in the industry.

**Features:**
- 150% Torque at 1Hz and 200% Torque at 3Hz Using General-purpose Magnetic Flux Vector Control
- Password Function for Parameter Setting Protection
- Integrated Digital Communications to the PLC
- Advanced Energy Savings Mode (Reduces Power at Low Demand)
- 550 Motor Leads Without dV/dT Protection
- Advanced Tuning Mode
- 100K SCCR Rating
- Integrated PLC Communication
- 10 Year Maintenance Free Design
- UL, CUL, CE

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**Certifications:**
- ETL
- CUL
- NSF 61 Compliant
- ISO 9001-2008 Certified