

Why choose QuantumFlo Booster Pumps?

Energy Savings over other VFD boosters

- QuantumFlo's 'GreenFlo' algorithm reduces pressure setpoint at low flow when there's less friction loss.
- No-flow test does not increase pump speed and does not require hydropneumatic tank. *(see next section)*
- Minimum 'base frequency' built into software based on suction & discharge pressures. Pumps will come on at the exact speed they need to crack the check valves and will not over-shoot.
- QuantumFlo systems are sized properly for the building, most boosters are oversized leading to inefficiency.
- Lowering drive frequency saves energy exponentially!

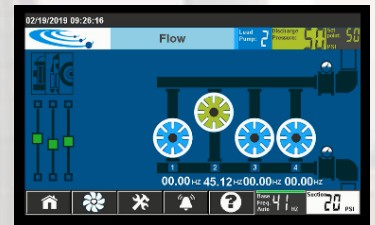
No Hydro-Pneumatic Tank Required

- Expansion tanks do not provide any meaningful storage volume on VFD-based boosters, as they require a pressure differential. VFD boosters maintain constant system pressure.
- Competitive systems require an expansion tank to test for no flow, increasing pump speed to see if the pressure remains at the higher level or drops back down with system demand.
- Removing the tank saves footprint, initial cost, and maintenance & energy costs over time.



Advanced Control Method

- PLC-based algorithm, doesn't use basic VFD-based PID feedback control.
- Local Modbus-based data communication between components for lightning fast speed.
- Highly accurate pressure sensors on suction & discharge headers.
- Enhanced stability avoids PID wind-up, saving energy and avoiding problems.



Booster Operating System Software (B.O.S.S.)

- Full color NEMA 4X, 7" HMI TFT touchscreen with Service Wizards.
- "PS-eye" on-screen quick reference that system is operating within spec.
- Alarm messages are easy to manage with intuitive touch-screen control (error walkthrough, tips, alarm log).

Build Quality

- Stainless steel square-tube frame is standard.
- VFD's mounted in NEMA 3R filtered & ventilated cabinet, protected from dirt, dust and dampness.
- Robotically-welded SS headers built in-house.
- Smallest footprint in the industry.
- Most parts stocked in the US and can ship next day.

Electrical Protection

- SCCR rating of 100,000A, and surge protector standard on all units.

5-Year Warranty

- Every QuantumFlo booster has an industry-leading 5-year warranty (covers whole package).
- Allows for longer lifecycle cost analysis

Quick & Easy Selection Program

- [calQflo](#) selection tool is online & easy to use (Riada can assist).
- Based on Hunter's Curve data, calQflo does NOT oversize.
- Factory-guaranteed sizing when fixture counts used.



For more info please contact sales@riada.ca!



QuantumFlo™
an exponential leap in pump technology



Exponential Innovation From the Ground Up

The global leader in delivering unmatched performance and sustainability through intelligent pump system technology.



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A Continuing Education Unit (CEU) provider

[Table of Contents]

- 2** About Us
- 3** Software
- 4** calQflo® & GreenFlo™
- 5-8** Hardware & Technology Patterns
- 9** Core Markets & Industries
- 10** Our Success



"I believe that innovation comes easy if your mind and heart are put fully into the work you do. Our company has grown and evolved to a position of leadership in the industry with the best packaged pump systems for commercial and industrial applications, and we plan to continue innovating for many years to come."

David Carrier - CEO & Founder



[About Us]

QuantumFlo was established to design, manufacture and deliver the best packaged technologies to the pump systems market.

Founded in 2007, QuantumFlo began as a result of the efforts of a determined team of professionals committed to redefining the design and application of automated pumping systems. From perfecting classic designs to the innovation of new products, QuantumFlo has applied creativity and out-of-the-box thinking to develop the quality and integrity of the systems we produce today.

QuantumFlo is housed in a state-of-the-art, 30,000-square-foot manufacturing facility. Our systems are assembled and flow tested in our on-site test lab where we feature a UL508A industrial custom control panel facility and a large production shop.

[Certifications]



QuantumFlo is a proud member of the U.S. Green Building Council (USGBC), which supports eco-friendly building and development. Through USGBC and other energy-focused memberships, QuantumFlo remains focused on maintaining relevancy as a leader of energy-conscious initiatives.



[Software]



The world's first ever Booster Operating System Solution (B.O.S.S.)

QuantumFlo's proprietary booster operating software delivers optimally designed systems with centralized decision-making processes within the controller when calQflo® is utilized at the design level.

The sum of these three key differentiators, calQflo®, GreenFlo™, and iQFlo™, delivers industry-leading return on investment for the end user and world-class designs for the design engineer.



- Intelligent Sizing Tool
- Intuitive kWh Calculations
- Guaranteed System Sizing
- Submittal CAD BIMs
- Energy Savings Calculators
- Auto-Redundancy Calculator

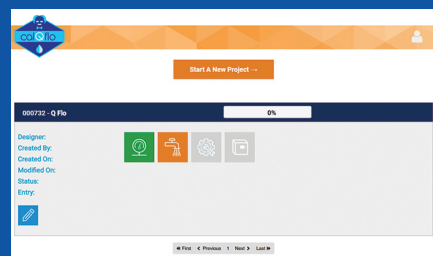


- Market Leading Reaction Time
- Intelligent PSI Auto-Tuning
- Built-In Motor O.L. Protection
- Full BAS Integration
- Automatic System Alternation
- Pulse Free Pressure Control



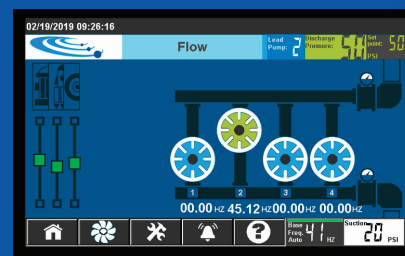
- Fastest ROI in the Industry
- ASHRAE 90.1 Compliant
- Eliminates Storage Tanks
- Tankless No-Flow Detection
- Tankless Low-Flow Detection
- Quantum Energy Savings

Energy Savings from Proper Sizing

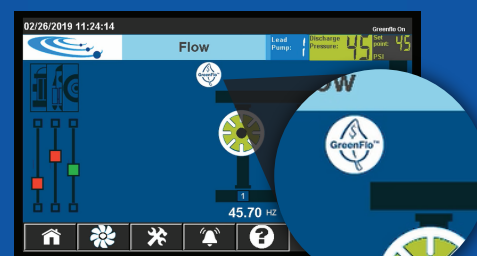


calQflo® Project Calculator

Energy Savings with iQFlo™ vs. Competition



Energy Savings with GreenFlo™ vs Competition



Homescreen with GreenFlo™ Mode Active

[calQflo®]

Try it out yourself at QuantumFlo.com/calQflo



The most advanced sizing program, delivering quick, intuitive and cost-effective selections. **Guaranteed!**

Finding the right pump solution is simple. By entering a small amount of information, our innovative online sizing tool will match you with the specs that best fit the needs of your next project. calQflo® then quickly provides pump selections and solutions with unmatched speed and efficiency. Oh, and did we mention sizings are guaranteed?

calQflo® delivers complete, cost-effective solutions for:



Plumbing



Water Harvesting & Reclamation



HVAC Packages



Controllers

[GreenFlo™]

An Exponential Leap in Green Technology

All manufacturers must now comply with the ANSI/ASHRAE/IES – Standard 90.1-2010, commonly known as “Energy Standard for Buildings.” To address this new standard, QuantumFlo integrated its GreenFlo™ algorithm into iQFlo™ 3.0.



GreenFlo™ takes advantage of QuantumFlo's superior logic and delivers lightning fast ROI and industry-leading energy recovery.

This algorithm uses the precise flow detection algorithms in iQFlo™ 3.0 to identify when flow is low enough to reduce system pressure to compensate for recovered friction, thereby saving our customers literally tens and even hundreds of thousands of dollars per year!

[Hardware]

QuantumFlo's advanced pump systems include our award-winning variable speed pressure control software, iQFlo™, featuring our low flow algorithm, GreenFlo™. Systems are always factory flow tested and pre-set to simulated site conditions for "plug and play" operation. QuantumFlo systems feature premium quality materials, such as 304 stainless steel frames, headers and supports.



Introducing the world's first 5 Year Warranty!



Prodigy

The Prodigy Series is a highly compact, customizable package designed for HIGH FLOW – LOW BOOST applications.

- NSF 61 Rated, 304 S.S. End Suction Pumps
- 304 S.S. Casing and Impeller

All controls are protected within a NEMA 3R forced-air ventilated enclosure with inlet filter and NEMA 4X active incoming surge suppressor with LED indicator.

Available in Simplex, Duplex, Triplex and Quadraplex!



Genius

The Genius Series is a highly compact, customizable package designed for LOW FLOW – HIGH BOOST applications.

- NSF 61 Rated, 304 S.S. Multi-Stage Pumps
- 304 S.S. Casing, Shrouds and Impeller

All controls are protected within a NEMA 3R forced-air ventilated enclosure with inlet filter and NEMA 4X active incoming surge suppressor with LED indicator.



WisperFlo™

The WisperFlo™ Series is a highly compact, customizable package designed for HIGH FLOW – HIGH BOOST applications.

- NSF 61 Rated, 304 S.S. Multi-Stage, Submersible Turbine Pumps
- 304 S.S. Casing, Diffusers and Impeller

All controls are protected within a NEMA 3R forced-air ventilated enclosure with inlet filter and NEMA 4X active incoming surge suppressor with LED indicator.

ATTENTION

The WisperFlo™ Series product should never be used on water temperatures in excess of **95 Degrees F (35 Celsius)**. Damage to the motor will result if these temperatures are exceeded.



HVAC Systems

QuantumFlo's total-system integration and technologies provide for almost any application with intelligent software controls to help predict pump cycle demand.

Our pre-packaged systems are a productive and cost-effective solution that include:

- Custom Packaged HVAC Systems and Heat Transfer Packages
- Boiler, Pump Skids and Controls

TransferFlo Pump Controls

QuantumFlo's pump controls are specifically designed to serve OEM customers and end users who require a customized UL508A listed controller solution. As a world leader in pump technology, we design controls which can be produced as an OEM component or a project specific solution.

TransferFlo was built for most level-based pump uses, with features including:

- MODBUS Outputs for Monitoring
- Alarm Logging Screen
- 6-Float Hookup Standard
- Optional Ultrasonic Level Indicator
- Standard Motor Thermals and Seal Fail
- Pump Up or Down App



QuantumFlo Introduces the Industry's First 5 Year Factory Warranty for Boosters!

Your specification is only as good as the product that you specify! QuantumFlo believes the ultimate statement of product quality is directly reflected in the manufacturer warranty.

As the leader in variable speed pressure boosting, we continue to raise the standards of the industry. All QuantumFlo commercial booster systems now feature a 5 year factory warranty against defects in materials and workmanship.

Make this 5 year warranty a standard requirement in your specifications and you will receive unmatched product quality that delivers groundbreaking value for the end-user.

[Core Markets]

Plumbing

Every QuantumFlo pressure booster system is custom-built to your specifications and compatible with your calQflo® configured project. For time-sensitive projects, we can guarantee on-time delivery in the smallest configuration and at the best cost.

Irrigation

Using technology, we've tackled many of the industry's challenges ranging from commercial projects with large landscape irrigation needs to major golf courses, roadway irrigation and more. Our simple, light, durable and highly intelligent designs helping to ensure a unique solution for your needs.

We also offer optional equipment, such as outdoor controls, lake level controls, enclosures with full environmental management, magnetic flow meters, filtration options and accessories.

HVAC

QuantumFlo's HVAC product line features 304 stainless steel frames and piping for your packaged chilled water, hot water, heat transfer and a multitude of other, factory-tested systems for the HVAC market.

All packages are designed in SolidWorks™ 3D design. The engineering is done before we start construction to give higher precision on a lightning-fast delivery schedule.

Utilities

When your municipality is running at night and you are filling an elevated tank, the system changes need to match that without overflowing and wasting water. This is one of several built-in customizations for municipal-specific applications.

Whether you need to maintain, expand or enhance your plant, our QuantumFlo municipal water systems provide a simple and cost-effective solution.

[Industries]

QuantumFlo offers packaged pump solutions for virtually any industry and application. Our specialized team provides efficient design for even the most difficult pump applications.

- Engineering
- Construction and Development
- Turf and Irrigation
- Hospitality and Institutional Facilities
- Commercial and Retail
- Aerospace
- Residential and Light Commercial
- Government and Military
- Power Generation and Utilities

[Our Success]

Here are a few examples of our success creating timely, cost-saving solutions for the plumbing industry.



Walmart was re-configuring an existing store on a tight deadline. The retail giant had exclusive agreements with a competitor, who was unable to perform within the allotted time period. QuantumFlo shipped a customized Prodigy pump in less than two weeks. Our representative walked the contractor through start-up overnight and into morning.

The contractor was very impressed with the simplicity of the pump system. QuantumFlo has since become the sole pump provider for all new and existing Walmart properties nationally, including Walmart, Walmart Neighborhood Market and Sam's Club.



When Hyatt Place came to QuantumFlo with their monthly spending, the solution was simple – a replacement pumping system. Poorly monitored commercial plumbing of any caliber wastes valuable resources and a great deal of money. For this five-story, 126-room hotel, this was exactly the problem.

QuantumFlo's team worked closely onsite, installing meters and running a careful analysis of system voltage and consumption. After determining the issues of their existing pump, the duplex constant speed, QuantumFlo replaced it with the Duplex Prodigy 3 HP system. Calculating numbers on total hours and kilowatt usage by day, month and year, Hyatt went from spending \$3,080.00 a year to \$406.58.



The Building Chief of Bank of America's 42-story high-rise Tampa office tower approached QuantumFlo with a very complex issue consisting of pumps wasting water to drains and overall poor energy usage. They were wasting upwards of \$2,000 per month in energy and sewer costs.

After thoroughly evaluating the existing conditions, QuantumFlo stepped in with a new, state-of-the-art, complete retrofit system. Within months, their office building was reporting a savings of 977 kilowatt usage per day in addition to a \$23,138.00 savings for the entire year.

Contact us today to discuss how our intelligent solutions can meet your project needs.

It's Time Your Pump Systems



BOOST LIKE A B.O.S.S.

[Some of Our Clients]



[Technology Partners]



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