



Operational Intelligence

Applications need to run at optimum efficiency for your success. Making informed decisions, easily, at a moment's notice is foundational to this. Embedded process knowledge provided by Patterson Intuition gives you the information you need.

Embedded Guidance

Avoid getting lost with start-up, integration of your drives and maintenance needs. New and intuitive built-in functions simplify support and diagnostics, allowing issues to be solved quickly and comprehensively.

Reliable and Sustainable

Long operating life and reliability have been the hallmarks of Patterson Pump Company and Schneider Electric for over 30 years. The tradition continues. We are ready to help you solve your challenges.

Operational Intelligence

> Custom Information

- Configurable Dashboard
- Graphical Keypad
- Pump Language

> Energy Management

- Motor Power Measurement
- Energy Dashboards
- Export Energy Data

> Embedded Ethernet and Web server

- Local or Remote Access
- Achilles Level 2 Security
- Web server on any device using HTML5

> Process Monitoring & Control

- Operating Data Feedback
- Compare to Expected Values
- Predictive Maintenance
- Stop & Go
- Real time clock
- Sensor-less control (including multi-pump)
- Multi-Pump control (up to 6 pumps)

Reliable and Sustainable:

- Digital Inputs
- Analog Inputs
- Relays
- Analog Outputs
- Conformal coating
- 50 degree C rating

Embedded Guidance:

> Startup

- Pump specific functions
- Simply Start
- QR Code access to product information and technical support

> Integration

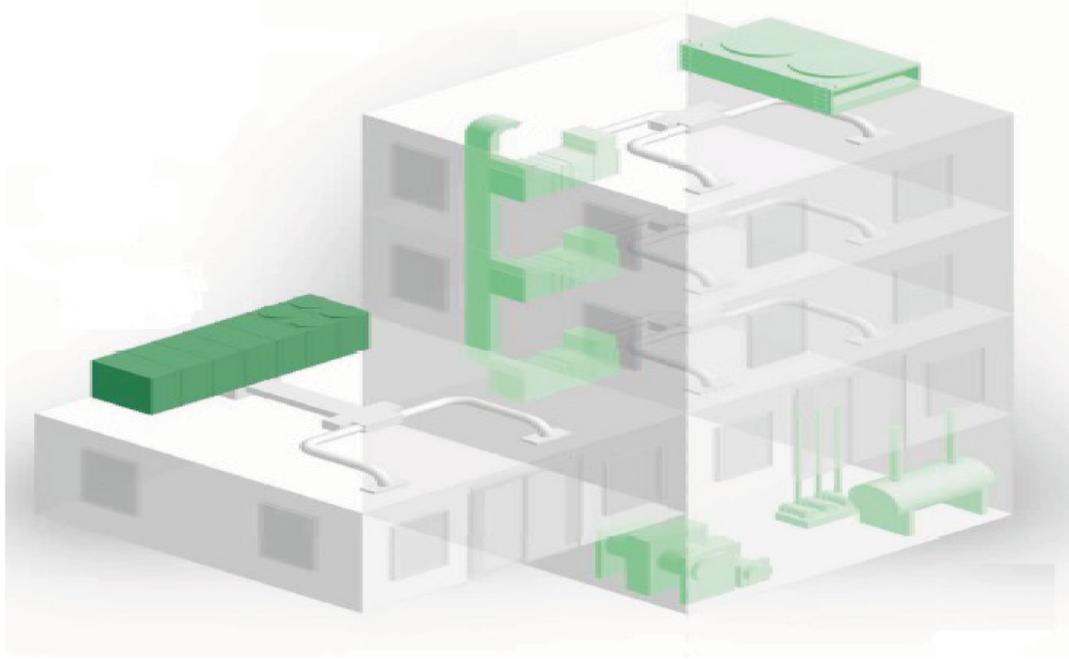
- PlantStruxure Optimized
- FDT / DTM Ready
- Industry Standard Communications

> Maintenance Excellence

- Dynamic QR code assistance
- Troubleshooting Messages
- Fast Device Replacement



Patterson Intuition variable speed drives have over 30 functions dedicated for pumping applications.



Applications

- Booster Pumps
- Hot Water Pumps
- Chilled Water Pumps
- Condenser Water Pumps

Pump Functions

- Anti-Jam
- Flow Limitation
- Friction Loss Compensation (ASRAE 90.1-2010)
- Input Pump Curve Values
- Multi-Pump Control (Up to 6 Pumps)
- PID Monitoring Feedback
- PID Regulator
- Pipe Fill
- Pump Monitoring
- Pump Priming Control
- Sensorless Flow Estimation & Control
- Sleep / Wake Up

Pump Protection

- Dry Run
- High Flow
- Inlet / Outlet Pressure
- Low Pressure
- No or Low Flow
- Process Overload Detection
- Process Under-load Detection
- Pump Cavitation
- Pump Cyclic Start



Voltage	Power Range	Standard Enclosure Offer
200 – 240 VAC	1 – 100 HP	Type 1: 1 – 100 HP Type 12: 1 – 60 HP Type 3R: 1 – 60 HP
400 – 480 VAC	1 – 900 HP	Type 1: 1 - 900 HP Type 12: 1 - 900 HP Type 3R: 1 – 125 HP

Options to Create the Right Solution

- Remote keypad mounting
- I/O extension cards
- Heatsink mounting kits
- Communication options: Ethernet IP / Modbus TCP dual port, Profibus, ProfiNet, DeviceNet, CanOpen, Bacnet
- Incoming and outgoing power options



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