APPROVED · HYDRAULICS · MOTORS · INTELLIGENCE ·

Flygt Experior™

Flygt SmartRun™

MAKING WASTEWATER PUMPING RELIABLE, EFFICIENT AND SIMPLE

So you've got a wastewater pump. But are you getting the benefits a variable speed pump can provide? Are you experiencing problems with clogging? Are you using more energy than the job requires? You're smart enough to choose the best pump in the market, now it's time to match it with the benefits of the most intelligent variable speed control.

Let's introduce SmartRun™, a pump-station controller solution for simplex or duplex wastewater pump stations. An integral part of the Flygt Experior™ range of product offerings, this pump-control unit lets your pump take care of itself, freeing debris and unclogging blockages when needed, setting the optimal speed for energy efficiency and cost savings, as well as communicating with external monitoring equipment for peace of mind.

SmartRun takes care of pump cleaning, pipe cleaning, sump cleaning, soft starts and stops; getting you to a new level of reliability and efficiency in a simple and easy-to-install solution. The integrated intelligence and variable speed control mean it's the perfect match for Flygt N-pumps; a combination that potentially realizes energy savings of 50%.
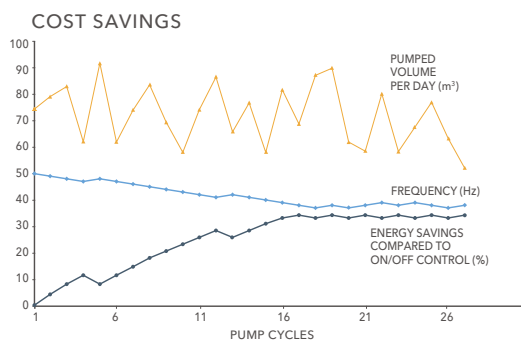
Reliability - reduced downtime with automated cleaning
Downtime costs money. With SmartRun installed, abnormal blockage triggers a cleaning cycle optimized for the N impeller, rotating it back and forth to release the debris. SmartRun's high starting torque, equivalent to direct online, ensures a reliable start in tough wastewater conditions.
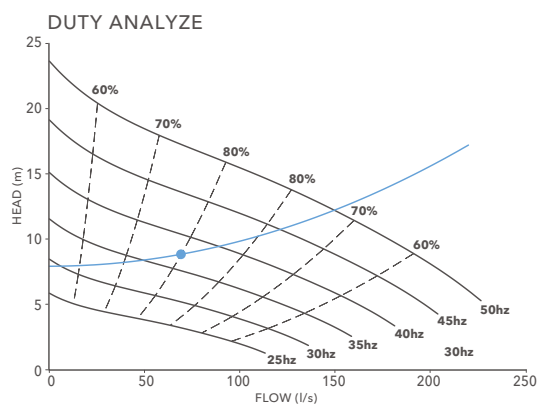
Preprogrammed ramps mean smoother and more gentle running of the pump, reducing wear and tear of the valves and increasing the lifetime of the pump. It'll even clean your pipes; SmartRun regularly performs one pump down at full speed flushing your pipes properly. Following that it will carry out sump cleaning, pumping down the water to snoring level, removing floating debris and reducing sedimentation.

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COST SAVINGS

PUMPED VOLUME PER DAY (m³)

FREQUENCY (Hz)

ENERGY SAVINGS COMPARED TO ON/OFF CONTROL (%)

PUMP CYCLES

By finding the optimal frequency SmartRun will automatically reduce your energy bill up to 50%.

DUTY ANALYZE

By constantly changing speed, SmartRun finds the most energy efficient frequency. In this way SmartRun avoids running at too low frequency, where energy consumption actually increases.

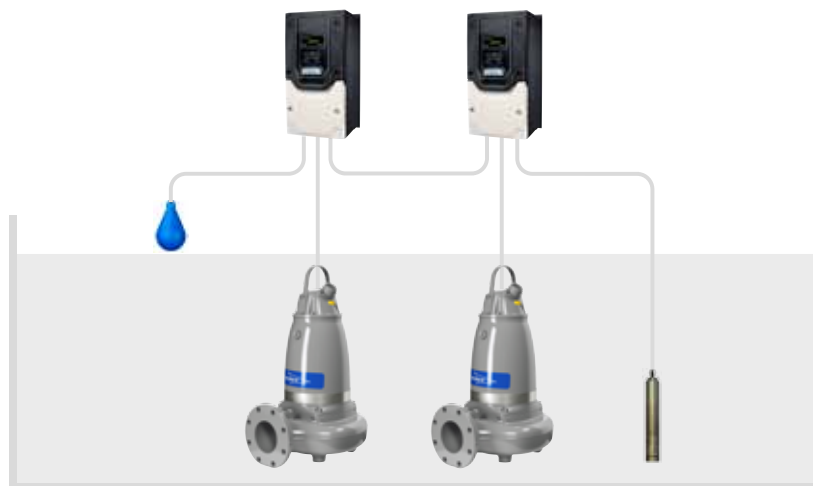## Efficiency - save up to 50% of your energy costs

Friction costs energy. SmartRun's energy minimizer adaptively finds the speed that reduces friction losses in the system and maximizes the efficiency of the pump. It does this by measuring the energy consumption of the pump and determining the volume of pumped water. Every pump cycle SmartRun continuously tries to find the smallest amount of energy consumed to pump one cubic meter away, always adapting to the pump-station conditions.

Simplicity - just press Auto for startup

Commissioning costs time. With SmartRun you avoid having to set crucial operational parameters manually. All parameters needed for wastewater are preprogrammed. Just press Auto for startup and let SmartRun take care of the operation. Pump leakage, high motor temperature, high level and hardware alarms are all presented in plain text in the display. It couldn't be simpler.

Technical data

Operation	Intelligent energy minimizing level control
Operating modes	Hand / Off / Auto
Power supply	3 x 380-480V +10/-15%, 50-60Hz
Power range	4 -75 kW
Display	OLED (monochrome)
Configuration	Via push buttons, no special software required
Pump protection	• Over temperature • Leakage
Unique functions	• Preprogrammed energy minimization • Pump cleaning • Sump cleaning • Pipe cleaning
Communication	• Modbus RTU (standard)
Alarms	• Volt-free contacts (standard) • SMS notification (optional)

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Let's Solve Water

A SmartRun installation: two pumps, two SmartRuns, one level switch and one pressure sensor; a solution which provides redundancy.

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