



OverWatch™

Direct In-Line Pump System

Success Story

When the current submersible pumps could not keep up with the demands of the largest wastewater treatment plant in Europe, the OverWatch™ Direct In-Line Booster Pump system Saved the Day

Overview

The water treatment plant of Achères, in France, is the biggest treatment plant in Europe. This plant was experiencing problems with their submersible pumps and were looking to replace them with a new technology that would improve the performance of the insufficient slope and flow. The wastewater treatment plant needed a pump that could move the entire line without periodic backups or clogs.

The Interdepartmental Sanitation Syndicate of the Paris Conurbation (SIAAP), who manages the treatment plant, chose to install an OverWatch™ Direct In-Line Booster Pump 100B-6VV-3kW in the wastewater treatment plant. This Booster was implemented in order to increase the flow velocities of centrifugate water (clarified liquid) produced by two mobile centrifuges of 2.5 and 3.5 T MS/h . When the gravity inlet fills the OverWatch™ Booster's body to the desired liquid level, the first motor unit starts up and begins to pump. The systems VFD controlled motors will start up slowly and then accelerate the flow, activating the internal check valve. The stand-by motor unit starts up if the upstream level rises above the predesignated liquid level. To conserve energy, when the inlet flow slows, the motors will softly stop. The OverWatch™ Booster was the solution for this water treatment plant.

When insufficient flow velocities are troubling, the Direct In-Line Booster can installed in-line with the current piping structure.

PROBLEM

- Bulky wastes clogging pumps, causing back ups
- Existing pumps performing with insufficient flow & slope
- Limited budget to design entire pumping system and piping



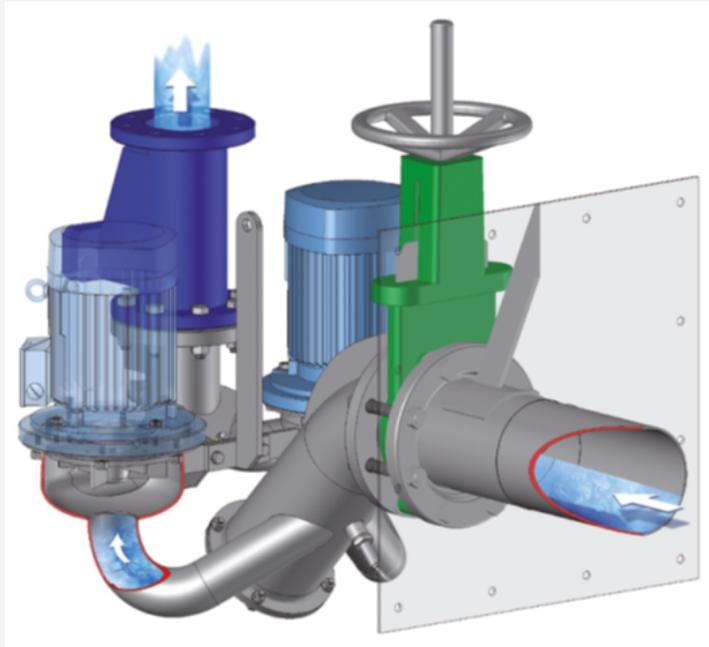
FEATURES

Immersible IP67 IE3 Motors

Modulated pumping driven by variable speed drives for optimized performance and savings

Optional DIPCut® Shredding impeller for self cleaning operation

Shared stainless steel hydraulic body



Isolation valve for easy maintenance

Stainless Steel wall flange supplied for easy mounting

Optional remote monitoring allows for control anywhere

Stainless Steel level pressure sensor

Stone trap/Clean out

Eliminating the wet well to maximize safety; minimize maintenance

The OverWatch™ Direct In-line Pumping Technology creates an environment that eliminates wet well maintenance, exposure to dangerous gases and hazards associated with retained effluent, while saving 30% on energy costs and 65% total savings over the life of the pump. Lifting liquid as it arrives removes the opportunity for whip, fats, oils or greases to build up and solidify. The VFD controlled pump allow the system to adjust it's performance real-time; reversing operation to remove clogs. With over 2000 installations globally, OverWatch™ is maximizing safety and minimizing risk by retrofitting current lift stations all over the world.

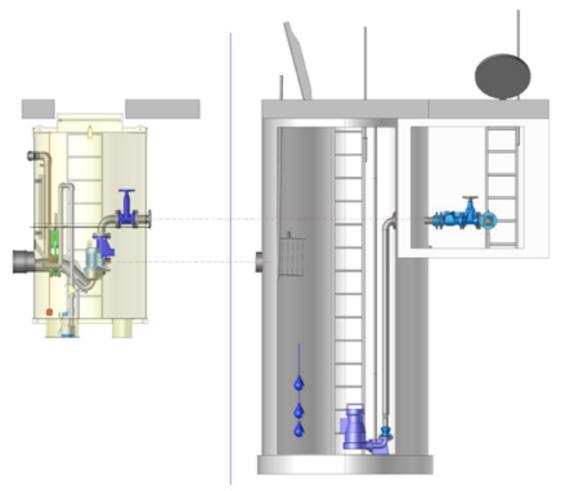
BENEFITS

- Eliminates the wet well and hazards associated with them
- Constant self monitoring operation allows the system to adapt real-time to the environment, adjusting motor performance to the incoming flow and eliminating potential clogs without human intervention
- Reduced maintenance; no screen or well cleaning; no scheduled site visits.

APPLICATIONS

- Munciple retrofits or new wet wells
- Residential, commercial or industrial ejector pumps
- In-line pipe booster systems

Direct In-Line vs. Traditional Installation



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