

Xylem's Flygt Exuperior[®] cuts annual maintenance cost by €14,000

A cleaner sump requiring fewer drainage operations thanks to Xylem's sustainable wastewater pumping solution

Xylem's revolutionary Flygt Exuperior wastewater pumping system has reduced the annual maintenance cost of the main wastewater pumping station in the city of Montmorillon in southwest France by €14,000.

The water challenge:

The pumping station is located in a busy urban area downstream from a retirement home. In addition to managing a heavy flow of wastewater, the station also takes in storm water, often including large quantities of solids, which led to frequent clogging issues. Positioned 8.5 metres below ground level, the pumps were very awkward for operators to access and unclog. As a result, in 2012, the station operators commissioned Xylem to develop a sustainable solution to these frequent and costly clogging issues.

"Since the installation of Flygt Exuperior we no longer have any clogging issues and do not have to intervene unintentionally at the station."

The Xylem solution:

In order to demonstrate the effectiveness of their Flygt Exuperior wastewater transport system, the Xylem team replaced one of the two pumps at the station with a Flygt Adaptive-N pump with a power capability of 5.9 kW. Flygt Exuperior combines high performing hydraulics, premium efficiency motors and intelligent controls to deliver the ultimate in reliability, efficiency and simplicity. It is specifically designed for wastewater pumping stations and delivers efficient, trouble-free pumping.

The powerful, non-clogging Flygt Adaptive-N pump immediately improved the reliability of the station by reducing the pressure on the second pump and as a result maintenance call outs were dramatically reduced from three interventions per week, to approximately one visit every two months.

Following these encouraging results, the station operators agreed to have the second pump replaced with Xylem's revolutionary and award winning Flygt N-technology. In addition Xylem's Flygt SmartRun™ intelligent pump controller was incorporated into the system to ensure optimum operation.



As well as a heavy flow of wastewater, the station also takes in storm water, often including large quantities of solids, which led to frequent clogging issues.

Customer: Water and Sanitation, City of Montmorillon

Challenge: Urban wastewater pumping station with serious clogging issues.

Products: Flygt Exuperior[®]

Results: a sustainable, cost efficient solution that cut annual maintenance cost by €14,000

Flygt Exuperior combines state-of-the-art hydraulics, premium efficiency motors, and intelligent controls for the ultimate in reliability, efficiency, and simplicity.

Easy to install and operate, SmartRun is an advanced pump monitoring system featuring pre-programmed cleaning functions to remove oil, grease and other floating pollutants from the surface of the wastewater. This supports the maintenance of a clean sump and significantly reduces the need for emergency call outs.

Denis Bernard, Manager of Water and Sanitation in the City of Montmorillon said, "Since the installation of Flygt Experior we no longer have any clogging issues and do not have to intervene unintentionally at the station. In addition, the sump is much cleaner than before, significantly reducing the number of cleaning and drainage operations that are necessary. This has had a very positive impact on the cost of running the station."

The result:

The Flygt Experior system, incorporating two Flygt Adaptive N-pumps and SmartRun intelligent pump controller, have transformed the pumping station into a reliable, trouble-free facility with a significantly reduced risk of sewage overflow into the nearby river. It also boasts a minimum requirement for manual intervention. Operating personnel are no longer exposed to potentially hazardous maintenance situations. In addition, the 140 maintenance call outs per year, at a minimum cost of €100 each time, are no longer necessary, saving the city €14,000 annually.



Installing the Flygt Experior solution



Complete electrical panel ACF311



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