

Pumping Station with Prerotation Modřany

Application market	Wastewater
Market segment	Wastewater Collection
Pumped medium	Raw, unscreened Wastewater
Pump product	Immersible with Prerotation system
Country	Czech Republic



Challenge

For pumping stations in Prague's main drainage system, a space-saving and efficient pump solution was demanded to transport the raw, unscreened wastewater.

Solution

Hidrostat supplied two dual-speed Immersible Screw Centrifugal Pumps with a large free passage of 145 mm. The pumps are equipped with Prerostal® type accessories, a self-cleaning sump system that removes floating layers and prevents build-up of debris in the tank and automatically adjusts the flow rate to the actual quantity available in the inlet. With the dual-speed motor it is possible to switch between 6 and 8 pole operation, thus covering an even larger range of 60-340 liters per second with one single pump.

Benefits

Space-saving, easy to maintain and self-cleaning sump pumping system, even without expensive installations for pre-treatment of the waste water.

- Trouble-free and service friendly installation and operation
- Large range of flow rates without the use of a frequency converter

Quantity of units sold	2
Pump type	H08K-M03R + HEVB7
Motor data	22 / 11 kW / 6/8 pole – dual-speed / 50 Hz / 400 V
Material combination	Cast iron pump body with stainless steel impeller and Hidrohard wear parts
Duty point	Flow: 170 litres per second (maximum) / Head: 7.5 meters
In operation since	2005