

Kløvermarken Pumping Station Copenhagen

Application market	Wastewater
Market segment	Wastewater Collection
Pumped medium	Raw, unscreened wastewater
Pump product	Bearing Frame
Country	Denmark



Challenge

The highest demands were placed on the new construction of Denmark's largest sewage pumping station at Kløvermarksvej in Copenhagen. This was not only with regard to the technical standard of modern drainage systems in large cities, the system was to set new standards as a prime example of best function and architecture integrated into urban planning. Accordingly, efficient and reliable pump solutions were required to supply the collected wastewater to corresponding Lynetten wastewater treatment plant.

Solution

The new plant was skilfully and distinctively integrated into the existing, compact cityscape. The circular pump room has a diameter of approx. 35 m, the floor of the room is approx. 10 m below the surface. Eight large Hidrostat low pressure type and non-clogging Screw Centrifugal Pumps were selected, commissioned and installed. With its large free passage and non-clogging design, Hidrostat is the first choice for pumping raw, unscreened wastewater.

Benefits

Since its start-up, the plant has been operating reliably and without any problems or malfunctions. Accordingly, the high requirements of the planning and operating community could be fulfilled satisfactorily.

Quantity of units sold	8
Pump type	L20K-SL3R + LLM1F
Motor data	IEC frame size 400 / 395 kW / 6 pole / 690 V / 50 Hz
Material combination	Cast iron pump body with Hidrohard wear parts and stainless steel impeller
Duty point	Flow : 1'062 litres per second / Head : 28.9 meters
In operation since	2018