

Vacuum Drainage System Indah Water

Application market	Wastewater
Market segment	Wastewater Collection
Pumped medium	Wastewater
Pump product	Immersible
Country	Malaysia



Challenge

Vacuum drainage systems are used where gravity-based drainage is not possible due to a lack of a sufficient gradient, or where the costs for individually and as conventional systems realized pumping stations are too high.

In a vacuum drainage system, mainly domestic wastewater from a few to several hundred connected buildings or collection stations can be fed to the vacuum station. The vacuum station contains a vacuum tank in which the waste water is sucked in and collected using vacuum technology. A reliable pump solution was required to transport the raw wastewater from the vacuum tank to the associated sewage treatment plant.

Solution

Two non-clogging Hidrostat Screw Centrifugal Immersible Motor Pump with large free passage were integrated into the system. The pumps are installed horizontally on a base plate in the dry pump room.

Benefits

The customer's requirements for a non-clogging and low-maintenance pump could be fully met. The system works smoothly and the plant has been operating reliably since its installation.

Quantity of units sold	2
Pump type	F04K-MH1R + FE020X4
Motor data	15 kW / 4 pole Immersible Motor
Material combination	Cast iron pump body and wear parts with nodular iron impeller
Duty point	Flow: 44 litres per second (maximum) / Head: 22 meters
In operation since	2012