

ÓZD MUNICIPAL WWTP

Hungary

SIZE OF WWTP	5400 m ³ /day (1 427 000 GPD)
END USER	Northern Hungary regional water and wastewater utility provider, ÉRV Zrt.
CUSTOMER	VEOLIA Water Solutions & Technologies Magyarország Zrt.
START OF OPERATION	September, 2015

ISSUE

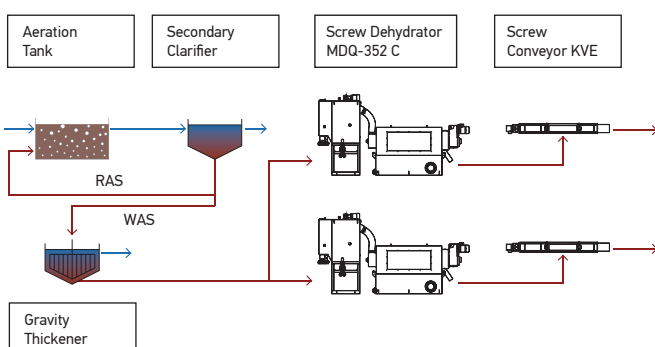
During the preparation of Ózd WWTP construction project, engineering department of one of the leading companies in the field of wastewater treatment was looking for an effective sludge dewatering solution with low power consumption as well as small footprint.

SOLUTION

After the detailed analysis and comparison with other manufacturers, the client chose two MDQ-352 C units. During the design stage, EKOTON specialists actively assisted in the development of sludge dewatering scheme.

RESULTS

TYPE OF SLUDGE	Thickened waste activated sludge
UNIT SLUDGE SUPPLY	7-7.5 m ³ /h (31-35 GPM) 140-150 kg DS/h (309-331 lb DS/h)
FEED SLUDGE DS CONCENTRATION	2 %
CAKE DS CONCENTRATION	18-20 %
OPERATION TIME	6-7 h/d
AVERAGE POLYMER DOSE	4-6 g/kg DS (8-12 lb/ton DS)
UNIT DAILY POWER CONSUMPTION	9-11 kW*h



END USER'S COMMENT

Since the commissioning, the performance of two EKOTON multi-disc screw press dehydrators MDQ-352 C has been stable and with no issues. With an average feed DS content of 1 %, the cake DS content is 18-20 % while maintaining the required filtrate quality. EKOTON screw conveyors are used for transportation of dewatered sludge. Control cabinet is equipped with a touch screen which enables setting operational parameters for the dehydrators, conveyors and a sludge pump. Operation of the system is fully automatic, therefore it requires no attention of an operator. Besides being almost noiseless, the system's performance is also reliable and faultless.