

Experiences with the drum thickener Siljan RotoMaster and the control unit Siljan PolySave at the waste water treatment plant in Vimmerby, Sweden.

Vimmerby waste water treatment plant installed 2 pcs. Siljan RotoMaster SF 17 during spring, in year 2000. Each of the drum thickeners were equipped with the following items:

- Siljan PolySave, for the control of the polymer dosing pump
- Control cabinet for the drum thickener
- Conical mixer for mixing of the polymer/water solution into the sludge
- Static tubular mixer, to increase the flocculation time
- Sludge hopper, i.e. a funnel between the outlet of the drum thickener and the inlet of the sludge evacuation pump; The sludge hopper has an alarm that will stop the thickening system if the sludge level in the hopper is too high.

The Siljan RotoMaster machines are placed before the digester in the process. One of the machines is used for thickening of municipal sludge and the other one is used for industrial sludge.



The picture shows 2 pcs. SF 17 Siljan RotoMaster, with auxiliary equipment.

The DS (Dry Solids)-content of the sludge entering the drum thickeners is ca. 2% and the two Siljan RotoMaster's thickens the sludge up to 6-7 %.

Both of the Siljan RotoMaster drum thickeners and the auxiliary equipment are working very well. The cleaning cycle keeps the filter cloth clean and in good condition. The Siljan PolySave equipment minimizes the polymer consumption, keeps the DS-content of the thickened sludge near a constant value and facilitates the work of the operator.

The thickening result is completely satisfying.