

WEDECO UV disinfection systems for waterworks Lovö

Stockholm Vatten, a municipality owned by the City of Stockholm, produces and supplies drinking water of highest quality to more than 1 Million people in Stockholm, Huddinge and nine neighbouring municipalities. Two out of three water works in the Stockholm region are owned and operated by Stockholm Vatten, these are two Lovö waterworks beside the Norsborg one.

They take care as well of the pipe net works for water and waste water, pumping stations and water reservoirs etc. in Stockholm and Huddinge. They have also the responsibility for water conservation and lake restoration. The water source is surface water from lake Mälaren north from Stockholm.

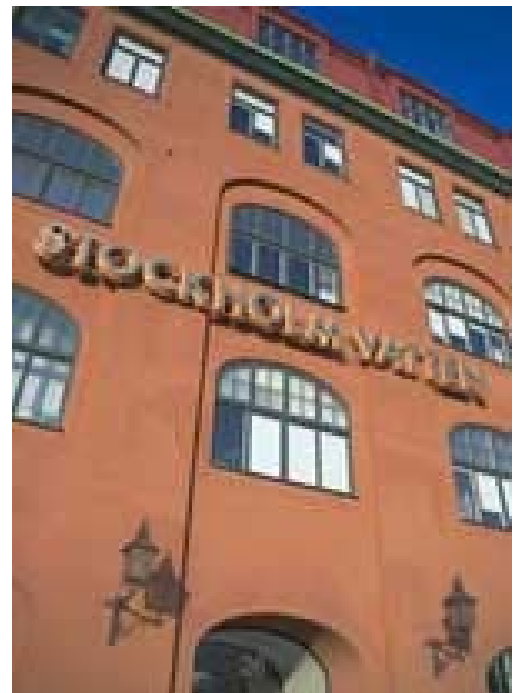
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UV Disinfection of treated surface water with WEDECO K series

Main reasons for converting to UV disinfection have been a more effective disinfection and reduce of chlorination (chloramines) because of chlorination by-products like THM and HAA and formation of biodegradable organics (AOC)

Pre-treatment:

- » Raw water from lake - screens - chemical precipitation (aluminium sulphate) - sedimentation, rapid sand filtration, slow sand filtration - pH adjustment - UV disinfection - preformed chloramines - pipe net
- » WEDECO's K disinfection systems show excellent results with about 3 log reduction of heterotrophic bacteria and sero coliform and E. Coli per 100 ml.
- » Together with the by 50 % reduced chloramines THM formation was negligible and much lower AOC levels were achieved.



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Reasons for Wedeco's success

Wedeco was chosen after an international tender evaluation of full life cycle costs (LCC) for 20 years. This included costs for equipment, installation and running costs (maintenance, power consumption and lamps). Additionally technical criteria were judged like experience with similar installations, service organisation and design of the UV control system.

WEDECO's scope of supply:

WWTP Lovö I - 6000 m³/h; 200Joule/m² biosimetric

2 pcs. Wedeco K4500

Delivery in 2001

Value: approx. 350.000,- Euro

WWTP Lovö II - 8300 m³/h; 200Joule/m² biosimetric

2 pcs. Wedeco K143

Delivery in 2006

Value: approx. 400.000,- Euro

Local -Contractor:

Christian Berner AB

Gamla Kronvägen 37

S- 433 24 Partille - Sweden

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Detail:
Installation Stockholm Vatten, water works Lovö I



Detail:
Installation Stockholm Vatten, water works Lovö II

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