



FRIEDRICHSHAGEN WATERWORKS

The Friedrichshagen waterworks forms a functional unit with the Lichtenberg and Lindenberg intermediate pumping stations. It is one of three main centres; the waterworks in the south-east part of the city are controlled from here.

CHRONICLE

1893

Commissioning of the Friedrichshagen waterworks on the Müggelsee | Daily capacity 86,400 m³ surface water

1904/09

Conversion of parts of the waterworks for groundwater winning and treatment

1925/27

Expansion and modernisation of the machine equipment and partial electrification of the works, capacity increased to 320,000 m³ per day

1979

Construction of a new high-speed filter hall

1983

Commissioning of a second high-speed filter hall, modernisation of the groundwater pumping, shutdown of steam operation

1991

Termination of lake drawing, since then exclusively groundwater pumping

TECHNICAL DATA

Max. capacity:

220,000 m³/day

Water winning:

170 vertical wells, 30 to 40 m deep, with underwater motor pumps. Delivery of the pumps 40 to 200 m³ per hour.

Water treatment:

Two aeration facilities with weir overflow, two filter halls with a total of 36 open high-speed filters, filter surface area 2,304 m², filtration rate max. 6.5 m per hour.

Water delivery:

Three machine rooms with 17 electric and three diesel centrifugal pumps. Delivery of the pumps between 500 and 5,000 m³ per hour and a pressure of 4.5 to 6.0 bar. The drinking water is pumped into the supply territory and to intermediate pumping stations. From there the water is distributed further into the supply network.



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