



Energy Supply



Reliable, demand-based energy supply

Stadtwerke Fürstenfeldbruck GmbH (municipal services) have stood for a sustainable, high-quality and environmentally friendly energy and water supply for more than 110 years.

Each year, they invest €8 million to provide electricity, water, district heat and energy-related services reliably and using cutting edge technology to around 80,000 inhabitants. In addition, Stadtwerke Fürstenfeldbruck operate the AmperOase, a sports and leisure facility with indoor and outdoor swimming pools, sauna and ice skating rink, which contributes to maintaining the high quality of living of the entire region.

Stadtwerke Fürstenfeldbruck required a new system that would allow them to reliably provide district heat for heating of buildings as well as district cooling to serve as a basis for generating cold air for air-conditioning. As the district heating and cooling needs are subject to major seasonal and daily fluctuations, supplies have to be optimally controlled by a specially designed system.

The same applies to the process heat to be supplied to a major industrial client. For this application, it has to be possible to quickly adjust pump capacity to actual demand. A perfect job for KSB's system consisting of a pump plus a PumpDrive speed control unit.





Efficiency having system

Tipping the balance in favour of KSB were the high degrees of reliability and flexibility of its system as well as the extensive support offered to the engineering contractor in the course of the project. The pump and the PumpDrive speed control unit were perfectly matched; the system's two components have controlled the fluctuating demand absolutely reliably and efficiently from the word go. Power consumption could thus be optimised, power grid losses kept to a minimum, and costs

reduced. Thanks to the flexibility of the system, there was no need for a great variety of products: pump plus PumpDrive are ideally suited for all three applications, i.e. district heating, district cooling and process heat supply. The system has been running absolutely reliably from day one – a further major indication of the operational reliability and process quality of the KSB system.

Stadtwerke Fürstenfeldbruck – Scope of supply and project details

Customer:

Stadtwerke Fürstenfeldbruck GmbH, Germany

Technical Data:

2 x cooling: Flow rate 120 m³/h, head 29 m, input power 15 kW
 1 x cooling: Flow rate 100 m³/h, head 22 m, input power 11 kW
 3 x heating: Flow rate 95 m³/h, head 32 m, input power 11 kW

Application:

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Commissioned:

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Scope of supply:

3 Etabloc PumpDrive 65-160/1502
 3 Etabloc PumpDrive 65-160/1102
 3 Etabloc 65-160/224
 2 Etabloc 65-200/404
 2 Etabloc 80-315/1504
 2 Etaline 40-250/224
 2 Etanorm SYA 80-200/3kW
 3 Etabloc SYA 80-160/224
 3 Etaline SY 40-160/302
 3 Movitec VF 2/8
 2 Riotec 25-70
 1 Hyasolo D 1/0408

 BOA-Compact valves DN 32-150
 BOAX shut-off butterfly valves DN 40-200