> Our technology. Your success.

Pumps • Valves • Service



Air-conditioning





SAP Data Centre, St. Leon-Rot

As market leader of enterprise software, SAP SE supports companies of all sizes and in all sectors in operating their business profitably, continuously adapting to changes and growing sustainably by collaborating more efficiently and using business information more effectively than the competition.

Customers: more than 291,000 Headquarters: Walldorf, Germany

KSB SuPremE® IE4* motor: the decisive advantage

High levels of availability and reliability are top priorities in data centres. In addition to absolute data security and a reliable power supply, this also includes fail-safe and energy-efficient air-conditioning. This varies according to server utilisation and is adjusted to cater for the various loads by means of pumps equipped with a variable speed system. The entire data centre is monitored using intelligent control systems. When it came to choosing a supplier to provide the pump technology required, the supplier of choice was KSB. The pump and valve manufacturer impressed with an optimally matched system of pumps, valves and automation products. The in-house developed world class KSB SuPremeE® motor is ideal for changing requirements – and when paired up with an intelligent speed control system, exceeds the efficiency offered by an IE3 motor when it comes to part-load ranges.

When compared with IE3 motors, the high-efficiency motor not only achieves energy savings of 73% but also boasts a space-saving design as PumpDrive is mounted directly on the KSB SuPremeE® motor. This means that the complete pump set requires just a small installation area. Furthermore, PumpDrive is matched to the pump before it leaves the factory, making it ready for immediate operation.

To ensure optimum control of pump operation and utilisation, SAP capitalised from highly efficient units. This involved combining the KSB SuPremE® motor and the PumpDrive variable speed system with the PumpMeter intelligent pressure transmitter. Thanks to its ongoing operating point estimation, this

ensured even more precise speed control. It was mounted in an accessible position that allows data to be read and downloaded

As a full-range supplier of pumps, valves and automation solutions, KSB provided 413 valves and 24 pumps as well as tailored services and the comprehensive concept needed to

More information

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*IE4 in accordance with IEC (CD) 60034-30 Ed. 2





Scope of supply

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Pu	m	ps

8 Etabloc GN 125-200/1104 G11 SuPremE® and PumpMeter

4 Etabloc GN 150-315/3004 G11 SuPremE® and PumpMeter

8 Etabloc GN 125-250/2204 G11 SuPremE® and PumpMeter

2 Etaline GN 050-160/074 G11 SuPremE® and PumpMeter

2 Etaline GN 050-160/114 G11 SuPremE® and PumpMeter

Valves

340 BOAX-SF with gearbox DN 32 - DN 400

24 BOAXMAT SF DN 80, 200, 250

24 SERIE 2000 DN 150 - DN 250

11 BOA-S DN 80, DN 200, DN 250

14 BOA-Control IMS DN 80 - DN 200

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