The reliability of all-in solutions:
Building Services from KSB
Expertise you can plan
Major projects also pose major planning challenges. Integrated solutions are therefore crucial to success and considerably simplify complex planning phases. At KSB you get individual components for drainage, water supply and all heating and air-conditioning circuits as well as fully matched systems – highly efficient and from a single source.

For decades we have supported consultants with our experience and technical expertise. And we attach particular importance to always finding the right solution for the specific requirements of every project. We adjust our products to match your installation and its specific features and optimise the system with our comprehensive energy efficiency concept FluidFuture®.

But an all-in solution involves even more. Thus we not only use outstanding products to find the optimum solution for our customers, but also offer the matching engineering and service. Our Sales is there for you with expert advice – right from the outset.
In the planning and implementation of big projects you need a partner known for reliability and quality – an example here is the new Terminal 2 at Munich airport. We were able to persuade consultants and operators alike of the high-tech products and service from KSB.

In the new system, the whole product range for building services applications was used. Two hundred pumps of the Eta family provide for a pleasant climate, while numerous Compacta Z lifting units and a variety of other pumps and valves make for trouble-free operation and ensure that the terminal is kept supplied without any problem.

But KSB takes reliability even further: thanks to our customised service concepts, any malfunctions that might occur are already identified early on and ensure that failures are practically excluded.
A convincing choice of products – from cellar to ceiling
Drainage

Ama-Drainer N 301/N 358
Floodable, submersible waste water pump, optional automation with LevelControl Basic 2 control unit

Applications
Disposal of waste water containing solids with a particle size of 10 to 35 mm

Benefits
- Absolutely tight: magnetic float switch with variable level control and maximum travel stop
- Easy to connect: 5 or 10 metre power cable
- Highly reliable: also suitable for operation with the pump not submerged (jacket cooling)
- Space-saving: includes swing check valve

Technical data
<table>
<thead>
<tr>
<th>DN</th>
<th>1¼–1½</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 16.5</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 12</td>
</tr>
<tr>
<td>T °C:</td>
<td>+50</td>
</tr>
<tr>
<td>Height:</td>
<td>325 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>214.5 mm</td>
</tr>
</tbody>
</table>

Ama-Drainer 400/500
Floodable, submersible waste water pump, optional automation with LevelControl Basic 2 control unit

Applications
Disposal of waste water containing solids with a particle size of 10 to 35 mm

Benefits
- Maintenance-free: grease-packed bearings sealed for life
- Jacket cooling for operation with the pump not submerged, retrofit option for conversion to cooled variant
- Robust and reliable: also suitable for waste water containing long fibres and solid substances

Technical data
<table>
<thead>
<tr>
<th>DN</th>
<th>1½–2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 47</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 24</td>
</tr>
<tr>
<td>T °C:</td>
<td>max. 40</td>
</tr>
<tr>
<td>Height:</td>
<td>440 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>300 mm</td>
</tr>
</tbody>
</table>
Ama-Porter
Submersible motor pump, optional automation with LevelControl Basic 2 control unit

Applications
Waste water transport, waste water disposal

Benefits
- Robust: large, sturdy pump for waste water containing long fibres and solid substances
- Fit and forget: automatic, bolt-free connection in combination with KSB duckfoot bend

Technical data
<table>
<thead>
<tr>
<th>DN:</th>
<th>50–65</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 40</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 12</td>
</tr>
<tr>
<td>T °C:</td>
<td>max. 40</td>
</tr>
<tr>
<td>Height:</td>
<td>408 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>374 mm</td>
</tr>
</tbody>
</table>

Amarex
Submersible motor pump, optional automation with LevelControl Basic 2 control unit

Applications
Waste water transport

Benefits
- Easy replacement of existing pumps, easy to handle: smallest dimensions, intelligent adaptation concept, re-usable and polarised cable entry
- Significant reduction of energy costs by optimised hydraulic system and optimum efficiency
- Replacements quickly available with short delivery times
- Highly reliable with a robust cutter or, alternatively, an impeller type with a large free passage

Technical data
<table>
<thead>
<tr>
<th>DN:</th>
<th>32–100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 190 (53 l/s)</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 49</td>
</tr>
<tr>
<td>T °C:</td>
<td>max. 55</td>
</tr>
</tbody>
</table>
Ama-Drainer-Box
Floodable waste water lifting unit, optional automation with LevelControl Basic 2 control unit

Applications
Automatic drainage of buildings, disposal of domestic waste water

Benefits
- Universal use: single-pump or dual-pump lifting unit for above-floor or underfloor installation for all pumps of the Ama-Drainer series
- Flexible: can be adapted to conditions or constraints on site thanks to level-adjustable, rotatable extension of the underfloor box and graded inlet connections
- A siphon trap integrated in the cover prevents bad odours
- Fast to install: work on site is limited to fitting the inlet and discharge piping and connecting the pump to the power supply

Ama-Drainer-Box Mini
Automatic waste water lifting unit for above-floor installation

Applications
Automatic drainage of washbasins, showers, washing machines, dishwashers, etc.

Benefits
- Fast to install: ready to connect, no accessories required
- Space-saving: low-height design, stable solution, wall or floor mounting
- Free from bad odours: new type of activated carbon filter meeting hygiene requirements, integrated overflow protection
- Flexible: large variety of connection options, 2 inlet nozzle heights, shower connection as a standard
- Service-friendly: maintenance-free Ama-Drainer N301 submersible motor pump, high availability

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>40/50</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN inlet:</td>
<td>50/70/100/150</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>max. 46 (12.8 l/s)</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 24</td>
</tr>
<tr>
<td>Volume:</td>
<td>100/200 l</td>
</tr>
</tbody>
</table>

Pumpstation CK 800/1000
Ready-to-connect pump station, automated with LevelControl Basic 2 control unit

Applications
Automatic drainage of buildings, disposal of waste water below the flood level

Benefits
- Low-weight, compact pump station
- Free choice of locations: tank cover available in 3 load classes for foot traffic / cars / trucks
- Optional tank extensions enable flexible installation depths of up to 2700 mm
- Several inlet nozzles at different heights
- Reliable pump control: pneumatic or bubbler control system
- Durable and corrosion-resistant

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>50/65</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN inlet:</td>
<td>6 x 150</td>
</tr>
<tr>
<td>Q m³/h:</td>
<td>max. 50 (13.9 l/s)</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 39</td>
</tr>
<tr>
<td>Height:</td>
<td>1700–2700 mm</td>
</tr>
<tr>
<td>Width:</td>
<td>1070 mm</td>
</tr>
<tr>
<td>Volume:</td>
<td>360 l</td>
</tr>
</tbody>
</table>
mini-Compacta US1.40
Super-compact, floodable sewage lifting unit, automated with LevelControl Basic 1 control unit

Applications
Disposal of sewage from toilet facilities below the flood level

Benefits
- Compact dimensions: space-saving installation 650 x 320 mm
- Full functionality with integrated ball check valve
- Highest planning and operating reliability by steep characteristic curve
- Latest motor generation offers highest possible system availability

Technical data
- DN: 32/50
- DN inlet: 2 x 100/50 graded
- Q m³/h: max. 14.2
- H m: max. 18
- Height: 650 mm
- Width: 320 mm/405 mm
- Volume: 10/17 l

mini-Compacta U1.60
Floodable sewage lifting unit, automated with LevelControl Basic 1 control unit

Applications
Disposal of sewage from toilet facilities below the flood level

Benefits
- Space-saving: compact dimensions of 510 x 510 mm
- Easy to install
- Reliable: integrated swing check valve, integrated mains-independent alarm and control system with self-diagnosis
- 10-year spare parts warranty
- Ready to connect
- Robust, powerful, durable motor

Technical data
- DN: 80
- DN inlet: 2 x 50/3 x 100
- Q m³/h: max. 26.5
- H m: max. 12
- Height: 450 mm
- Width: 510 mm
- Volume: 60 l

Compacta up to UZ300
Floodable sewage lifting unit, automated with LevelControl Basic 2 control unit

Applications
Disposal of domestic and industrial waste water

Benefits
- Space-saving: compact design, easy to install
- Reliable: dual-pump system, integrated swing check valve, integrated mains-independent alarm and control system with self-diagnosis
- Optional 10-year spare parts supply
- Includes y-pipe

Technical data
- DN: 80
- DN inlet: 3 x 100/150 graded
- Q m³/h: max. 71.5
- H m: max. 23
- Height: 585 mm
- Width: 1085 mm
- Volume: 300 l
Movitec PumpDrive
High-pressure in-line pump with variable speed system

Applications
Pressure boosting, fire-fighting systems, cooling water circuits

Benefits
- High-pressure pump designed for high industry standards
- Very versatile with large range of sizes, pressure classes and materials
- Flexible connection variants: round flange, oval flange, external thread, Victaulic coupling, tri-clamp coupling
- Easy to combine with a PumpDrive variable speed system for automatically controlled operation and energy savings; compatible with most common field bus systems, easy to connect to process control systems

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>25–100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 113</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 380</td>
</tr>
</tbody>
</table>

Hyamat SVP
Pressure booster system with KSB SuPremE® motor

Applications
Pressure boosting in the water supply of commercial buildings, industrial plants, water supply systems

Benefits
- Fully automatic pressure booster system, approved for drinking water, with automatic pump changeover
- Energy-efficient: automatic output adjustment and equal distribution of pump load, which minimises pressure fluctuations
- Highly reliable: monitoring of sensors and daily operation check run
- Most convenient: compact, low-noise design, ready to connect
- Large variety of operation and fault message options meeting advanced requirements of process control systems
- Fitted with a KSB SuPremE® motor the unit meets the IE5* requirements, already today

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>50–150</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 660</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 160 m</td>
</tr>
<tr>
<td>Height:</td>
<td>max. 2000 mm</td>
</tr>
</tbody>
</table>

Hya-Duo D FL Compact
Fire-fighting system

Applications
Fire-fighting systems

Benefits
- Convenient: compact dimensions of 800 x 1800 mm max., system ready to connect, modular design
- Highly reliable: pressure switches are continuously monitored for broken wires and short circuit; dry running protection is disabled in the event of a fire; master switch and valves are secured against unauthorised activation; daily operation check run increases operating reliability
- Integrated inlet tank

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>50–80</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 55</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 150</td>
</tr>
<tr>
<td>Height:</td>
<td>max. 1800 mm</td>
</tr>
</tbody>
</table>
Hya-Solo D/DV
Pressure booster system with KSB SuPremE® motor

Applications
Pressure boosting in the water supply of residential and office buildings, on commercial premises and in industrial plants

Benefits
- Fully automatic pressure booster system, approved for drinking water
- Highly reliable: monitoring of sensors and daily operation check run
- Space-saving: compact design
- Ready to connect: saves time and costs
- Fitted with a KSB SuPremE® motor the unit meets the IE5* requirements, already today.
- Low-noise operation

Technical data

| DN  | 25–100 |
| Q m³/h | max. 110 |
| H m  | max. 160 |
| Height | max. 1822 mm |

Hya-Eco VP
Pressure booster system with automatic pump changeover

Applications
Pressure boosting in the water supply of commercial buildings, industrial plants, residential and office buildings

Benefits
- Energy-efficient: automatic output adjustment and equal distribution of pump load
- Highly reliable: monitoring of sensors and daily operation check run
- Large variety of operation and fault message options

Technical data

| DN  | 50/80 |
| Q m³/h | max. 70 |
| H m  | max. 110 |
| Height | max. 1260 mm |

UPA 150C
Submersible borehole pump

Applications
Domestic water supply, pumping clean or slightly contaminated water

Benefits
- Low maintenance
- High-grade materials for high operating reliability and long service life
- Broad application range: in 4” wells, pump sumps, water tanks and open waters
- Easy to install/remove: all connecting elements are made of stainless CrNiMo steel

Technical data

| DN  | 32/50 |
| Q m³/h | max. 79/16 |
| H m  | max. 570/300 |
| Diameter | 147/96 mm |

* IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (only for 1500 rpm types rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW: IE5 in preparation)
Heating / air-conditioning

**Calio**
High-efficiency circulator

**Applications**
Heating/venting/air-conditioning systems, industrial circulation systems

**Benefits**
- Eco Mode saves energy costs
- All major interfaces integrated
- Clever, space-saving design
- Fast to install and commission
- Simple to use
- Long service life with membrane technology preventing ingress of pollutants into the rotor space

**Technical data**

<table>
<thead>
<tr>
<th>DN:</th>
<th>32–100</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 70</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 18</td>
</tr>
<tr>
<td>P bar:</td>
<td>PN 6/10/16</td>
</tr>
<tr>
<td>T °C :</td>
<td>−10 to 110</td>
</tr>
</tbody>
</table>

**Etaline PumpDrive/ Etaline Z PumpDrive**
In-line pump with KSB SuPremE® motor

**Applications**
Hot water heating systems, cooling circuits, water supply systems

**Benefits**
- Space-saving: compact in-line design
- Trimmed impeller diameter for optimum efficiency
- Highly reliable: standardised motors ensure high spare parts availability
- Fitted with a KSB SuPremE® motor and PumpDrive the pump set meets the IE5* requirements, already today

**Technical data**

<table>
<thead>
<tr>
<th>DN:</th>
<th>32–200</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 700 (50 Hz), max. 850 (60 Hz)</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 139 (60 Hz)</td>
</tr>
<tr>
<td>P bar:</td>
<td>max. 16</td>
</tr>
<tr>
<td>T °C :</td>
<td>−30 to +140</td>
</tr>
</tbody>
</table>

**Etaline L/DL**
In-line pump

**Applications**
Hot-water heating systems, cooling circuits, air-conditioning systems, water supply systems, service water supply systems, swimming pools (only Etaline L) and industrial recirculation systems

**Benefits**
- Highly versatile and suitable for the most diverse of requirements thanks to a large variety of materials
- High overall efficiencies and low energy costs thanks to the perfect combination of an energy-efficient motor and advanced hydraulic system
- High-efficiency IE3 motors with long shaft as standard
- Demand-driven operation with PumpDrive

**Technical data Etaline L/DL**

<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 95/max. 150</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 21</td>
</tr>
<tr>
<td>P bar:</td>
<td>max. 10</td>
</tr>
<tr>
<td>T °C :</td>
<td>−15 to +120</td>
</tr>
</tbody>
</table>
Etanorm PumpDrive
Standardised close-coupled pump with KSB SuPremE® motor

**Applications**
Irrigation, water supply systems

**Benefits**
- Suitable for all common fluids and applications with a large range of material variants
- Trimmed impeller diameter for optimum efficiency
- Fitted with a KSB SuPremE® motor and PumpDrive the pump set meets the IE5* requirements, already today

**Technical data**
- DN: 25–150
- \( Q \text{ m}^3/\text{h} \): max. 640 (50 Hz), max. 740 (60 Hz)
- \( H \text{ m} \): max. 160 (50 Hz/60 Hz)
- \( P \text{ bar} \): max. 16
- \( T \text{ °C} \): –30 to +140

Etaline-R
Vertical in-line pump, optional automation with PumpDrive/PumpMeter

**Applications**
Air-conditioning systems, heating systems

**Benefits**
- Space-saving: compact in-line design
- Trimmed impeller diameter for optimum efficiency
- Highly reliable: standardised motors ensure high spare parts availability
- Fitted with a KSB SuPremE® motor and PumpDrive the pump set meets the IE5* requirements, already today

**Technical data**
- DN: 150–350
- \( Q \text{ m}^3/\text{h} \): max. 1900
- \( H \text{ m} \): max. 97
- \( T \text{ °C} \): –30 to +140

---

Recommended valves

**BOA-Super Compact**

**BOA-Compact**

**BOA-Control IMS**

**BOA-H** (grey cast iron/nodular cast iron)

**Serie 2000**

**BOAX-S/-SF**

**DANAIS**

**BOA-S**

* IE5 in accordance with IEC/TS 60034-30-2 up to 15/18.5 kW (only for 1500 rpm types rated 0.55 kW, 0.75 kW, 2.2 kW, 3 kW, 4 kW: IE5 in preparation)
Drinking water circulation

Calio-Therm NC
Drinking water circulator

Applications
From multiple dwelling to commercial buildings

Benefits
- Operating point adjustment by manual setting of up to 3 speed levels
- Direct operation and operating status monitoring with level switch on front cover
- Integrated terminal box for electrical connection via spring terminal
- Ceramic shafts and bearings for reliable operation
- Non-overloading motor

Technical data

<table>
<thead>
<tr>
<th>DN:</th>
<th>20–25</th>
</tr>
</thead>
<tbody>
<tr>
<td>Q m³/h:</td>
<td>max. 9</td>
</tr>
<tr>
<td>H m:</td>
<td>max. 7</td>
</tr>
<tr>
<td>P bar:</td>
<td>PN 10</td>
</tr>
<tr>
<td>T °C :</td>
<td>0 to 40</td>
</tr>
</tbody>
</table>

Recommended valves

BOA-Compact EKB
BOAX-S/SF
SISTO 16 TWA
Energy-optimised hydraulic system
with BOA-Systronic®

KSB’s control system makes full use of the hydraulic saving potential in heating, venting and air-conditioning circuits. It is part of the FluidFuture® energy efficiency concept and makes sure that the system as well as its pumps and valves are operated in an energy-efficient manner, in line with the demand. Unlike in conventional solutions the circulator works very closely with the control valve. The pump transports the exact amount of water required. And considerably reduces the operating costs. BOA-Systronic can help save up to 70% in energy costs.

The innovative BOA-Systronic system consists of a control unit, one measurement valve and two control valves:
- BOA-Control IMS (measurement valve)
- BOA-CVE SuperCompact with Systrobox (control valve with control unit)
- BOA-CVE SuperCompact (control valve)

The benefits are obvious:
- Low planning costs: straightforward system selection with economic efficiency analysis; automatic calculation of control valve
- Future-proof: quadrupled efficiency will prepare your installation for current and future requirements such as energy-saving regulations and energy performance certificates
- Compatible technology: proven components for standard control systems
- Comprehensive system solution: for room heating and air-conditioning systems with static heating surfaces, convectors and air heating/cooling registers
- Convenient: economic all-in solution from a single source, based on KSB’s comprehensive know-how as a systems supplier
- Local KSB service: global service network for optimum solutions, no matter how complex
The selection software KSBase Consult Building –
Planning assistance online and up to date

Pumps and valves from KSB just a click away: The KSBase Consult Building selection program allows you to quickly and easily find the right pump and valve for your system. The new KSBase Consult Building selection program guides you through the entire planning process, with all relevant data, graphs, calculations and typical tenders. Our selection software allows you to find the right pump and valve – quickly and easily.

www.ksb.com/ksbase-consult
FluidFuture®: the energy-saving concept for your system

Many systems do run reliably but they also use a lot more power than necessary. The solution: efficiency optimisation with FluidFuture® in four steps. We look at the entire hydraulic system to achieve maximum energy efficiency throughout the life cycle. The optimisation costs will pay for themselves within a short period through the high energy savings that can be made.

The process and its four steps are clearly defined – based on extensive expertise and experience. This systematic and targeted approach ensures maximum savings at minimum costs. Perfectly matching the hydraulic system, drive and automation products as well as the piping dimensions can result in savings of up to 60%.

We reduce the operating costs of your system by combining our expert knowledge with smart products and services. This is our joint contribution towards an energy-efficient future.

More on FluidFuture®:
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