

## Application

The U 3 K (S) spezial is a special model made from high-quality resistant materials. This model is suitable for both stationary and portable use and is also able to handle aggressive media such as brackish water, silage liquor, whey and liquid fertiliser in the agricultural industry.

Contaminated water at high temperatures from dish-washers and washing machines (also high temperature) as well as condensate from condensing boilers can also be removed with the pump. For stationary operation the pump can also be combined with either the collecting tank supplied or with a large number of our chemical-resistant collecting tanks.

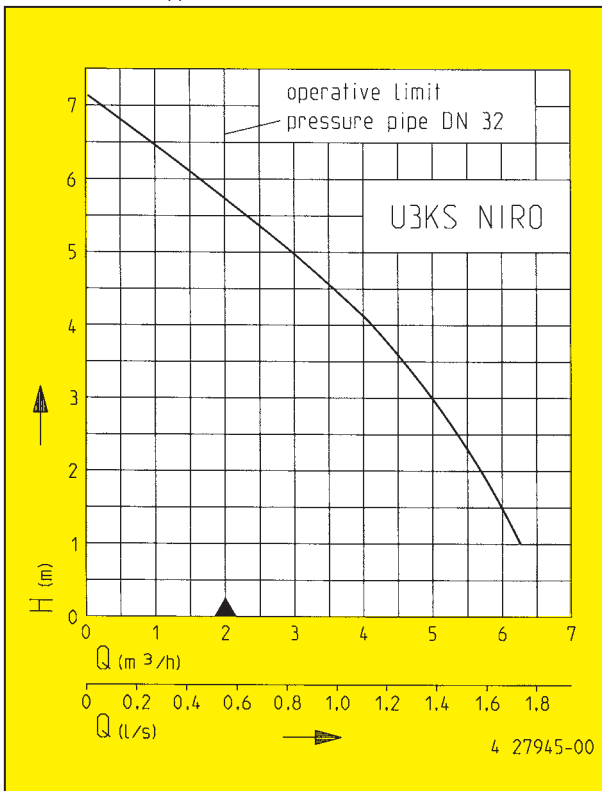
For other aggressive media we recommend a trial run under operating conditions or advise you to consult us. The difference in the characteristics of the various media does not make it possible for us to provide a guarantee.

This pump provides the same outstanding innovative technical features as the standard model. For stationary use in drains the guide rail system GR 32 also offers all the advantages of fast and easy maintenance.

The pumps must not be used for raising sewage from lavatories and urinals.

If submersible pumps are used outdoors, only a pump with 10 m cable without extension cable may be used in accordance with VDE Regulation 0100.

The minimum flow velocity in the pressure piping must be 0,7 m/s according to EN 12056. This data is represented in the performance curve as a limit of application.



U 3 KS spezial with built-in level control

- ▶ Variable discharge branch
- ▶ Safe to run dry
- ▶ Portable
- ▶ Continuous operation
- ▶ Low level pumping
- ▶ Flushing device
  
- ▶ EIP-Technology
- ▶ Integrated swing-type check valve for portable use
- ▶ SiC mechanical seal
- ▶ Moisture sealed cable inlet



We reserve the right to change specifications without notice. Pump performance is subject to ISO 9906 tolerances.

## Submersible sump pumps

Type	Height x Width (max.)	Discharge branch	Free passage	Cable quality	Cable length	Weight	Code No.
<b>Pump without level control</b>							
U 3 K spezial without bend	255 x 170 mm	1 1/4"	10 mm	H07RN-F-3G1,0	10 m	4,2 kg	<b>09562</b>
with bend	255 x 225 mm						
<b>Pump with built-in level control</b>							
U 3 KS spezial	255 x 275 mm	1 1/4"	10 mm	H07RN-F-3G1,0	3 m	3,5 kg	<b>09563</b>

## Performance

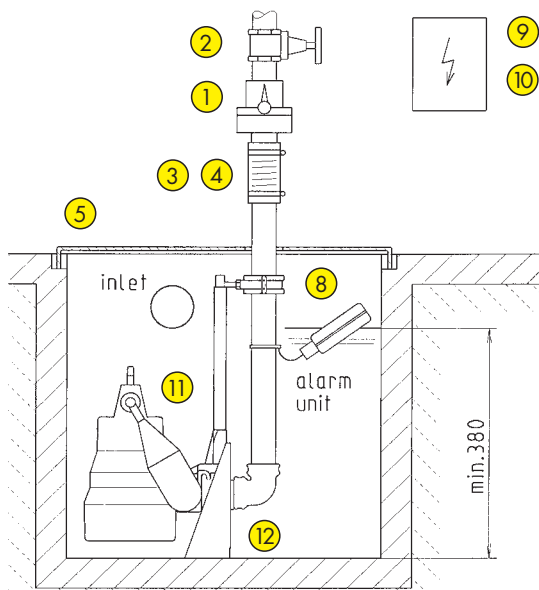
Type	Delivery head H [m]	1	2	3	4	5	6
U 3 K spezial	Flow rate Q [m³/h]	6,5	5,5	5,0	4,0	3,0	1,5

## Electrical data

Type	Type of current	Voltage Volt	Motor rating kW P <sub>1</sub> P <sub>2</sub>	RPM min <sup>-1</sup>	F.L.C. Amp.	Motorprotection	Plug
U 3 K spezial	1-phase	1N~230	0,32 0,20	2720	1,4	incorporated	safety-

### Single pump installation with GR

Single unit with built-in level control  
 Sump area **with GR 32** min. 40 x 50 cm  
 Sump area **without GR** min. 40 x 40 cm (without illustr.)  
 When using a cover panel, a ventilation facility must be provided.

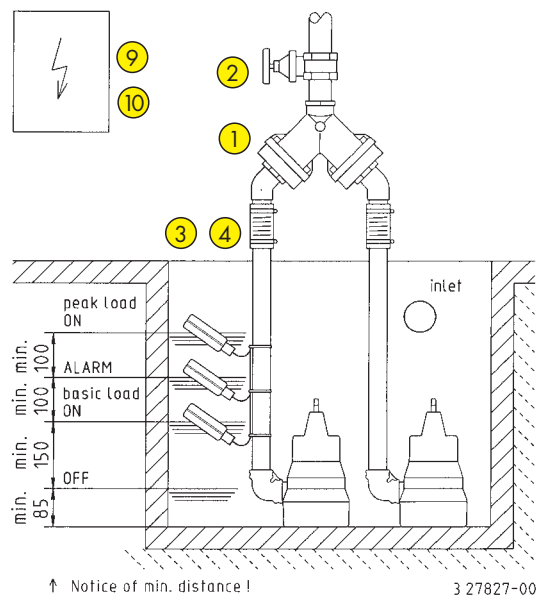


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In case of installation beneath the backpressure level the pressure tube must be taken in a loop over the local backup level acc. to EN 12056. Besides, it must be secured with a EN 12050-4-proofed swing-type check valve. Additionally we recommend an alarm system.

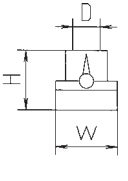
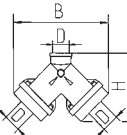
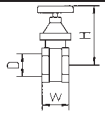


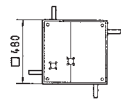
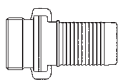

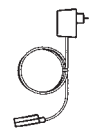
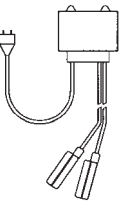
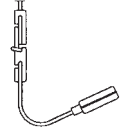


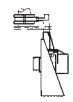
### Duplex pump installation

Duplex unit with control unit  
 Sump area **with GR 32** min. 50 x 50 cm (without illustr.)  
 Sump area **without GR** min. 50 x 50 cm  
 Suspend control unit in a dry room



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## Accessories

	Code No.	U 3 K spezial	U 3 KS spezial
 <p><b>1</b> <b>Swing-type check valve</b> 1 1/4" (DN 32), PN 4 EN 12050-4</p>	09739	●	●
 <p><b>Double swing-type check valve</b> 1 1/2" (DN 40), PN 4 for double pump station EN 12050-4</p>	09155	●	
 <p><b>2</b> <b>Stop valve</b> 1 1/4" (DN 32), PN 16 1 1/2" (DN 40), PN 16</p>	11836 11837	● ●	● ●
 <p><b>3</b> <b>Elastic connection</b> 1 1/4" (DN 32), PN 3</p>	14329	●	●
 <p><b>4</b> <b>Hose band clamp</b> 1 1/4"</p>	03573	●	●
 <p><b>5</b> <b>Cover plate*</b> c/w frame, seal and pipe conduct LW 420 <b>Blind plate*</b> c/w frame and seal LW 420</p>	01255 00322	● ●	● ●
 <p><b>6</b> <b>Hose coupling</b> 1 1/4" (DN 32), brass, for portable use</p>	00327	●	●
 <p><b>7</b> <b>Flexible hose</b> 1 1/4" (DN 32), PVC, red, per m, for portable use</p>	00334	●	●
 <p><b>8</b> <b>Alarm system</b> with submersible ball contact switch with 3 m cable, separate mainsdependent, with potential free contact <b>Alarm system</b> ditto, with 9,5 m cable <b>Alarm system for washing-machines AW 3</b> with submersible ball contact switch with 3 m cable, separate, mainsdependent <b>Alarm system for washing-machines AW 10</b> ditto, with 9,5 m cable</p>	16723 24434 25090 25091	● ● ●	● ● ●
 <p><b>9</b> <b>Separate level control</b> for single unit NE 1 with subm. ball contact switch 3,0 m NE 2 with subm. ball contact switch 9,5 m NE 1A with subm. ball contact switch 3,0 m and alarm system NE 2A with subm. ball contact switch 9,5 m and alarm system Counterweight (1 piece)</p>	16710 16711 16714 16715 17541	● ● ● ● ●	
 <p><b>Duplex control unit</b> BD 00E Subm. switch pack B with 3 subm. ball contact switches with 9,5 m cable and fixing devices Subm. switch pack BmG with 3 subm. ball contact switches with 9,5 m cable and counterweight</p>	00482 16725 16726	● ● ●	
 <p><b>10</b> <b>Rechargeable battery</b> for off the line operation of the alarm system</p>	07562	●	●
 <p><b>11</b> <b>Special float</b> for low switching points (Switching height without GR ON 105 mm, OFF 45 mm; switching height with GR 32 ON 135 mm, OFF 75 mm)</p>	17424		●
 <p><b>12</b> <b>Guide rail system</b> GR 32 <b>Support for guide rail extension</b> ex 2 m sump depth, per m 1 piece</p>	09277 28314	● ●	● ●

\* only for single units

## Technical data

### Pump

Vertical, single-stage, submersible shaft encapsulated, foot strainer with 10 mm free passage – detachable for activating the low level pumping, volute casing with 1 1/4" (male) radial pressure branch and integrated swing-type check valve, annular case with flushing device for drain cleaning, EIP-technology hydraulics with open 5-blade impeller.

### Bearings

Common shaft for pump and motor, mounted in ball bearings and permanently grease lubricated.

### Seal

Silicon carbide mechanical shaft seal, oil chamber and shaft seal ring towards the motor section, safe to run dry.

### Motor

Submersible motor, type of enclosure IP 68, insulation class B, motor thermostat for emergency switch-off on overheating with automatic switch-on after sufficient cooling, switched on via plug or automatic switching, moisture sealed cable inlet for protecting the pump in the event of damage to the cable, continuous operation when not submerged on account of its motor jacket cooling.

### Materials

Motor housing, shaft and screws in stainless steel, volute casing, impeller and control head in plastic (GRP), rubber insulated flexible cable.

### Installation

Install pump vertically (hose connection possible); if installed permanently, provide detachable connection, eg guide rail system GR 32.

### Scope of supply

Pump ready for connection acc. to EN 12050 with 90°, 1 1/4" female connection elbow, cable and plug, S model with automatic level float switch.

