

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.

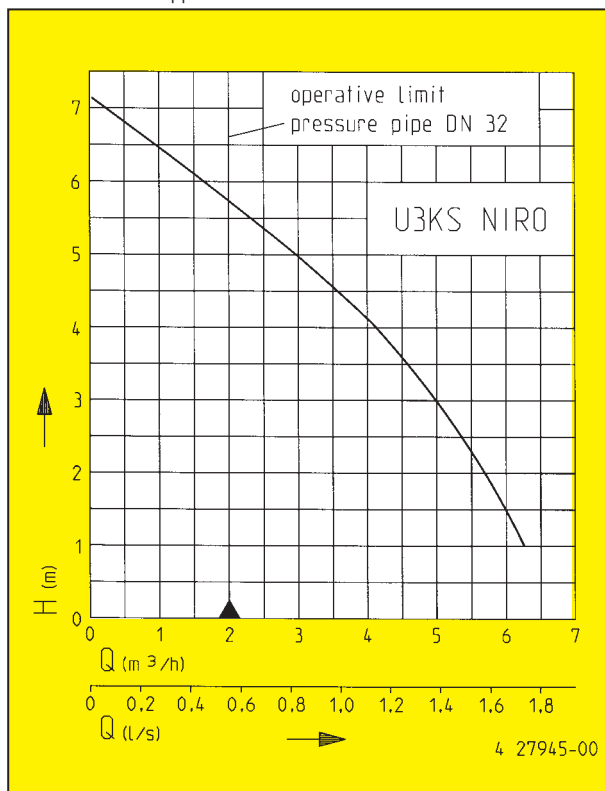
For other aggressive media we recommend a trial run under operating conditions or advise you to consult us. The difference in the characteristics of the various media does not make it possible for us to provide a guarantee.

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-technique
- ▶ 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.
Pump without level control							
U 3 K spezial without bend	255 x 170 mm	1 1/4"	10 mm	H07RN-F-3G1,0	10 m	4,2 kg	9562
with bend	255 x 225 mm						
Pump with built-in level control							
U 3 KS spezial	255 x 275 mm	1 1/4"	10 mm	H07RN-F-3G1,0	3 m	3,5 kg	9563

Performance

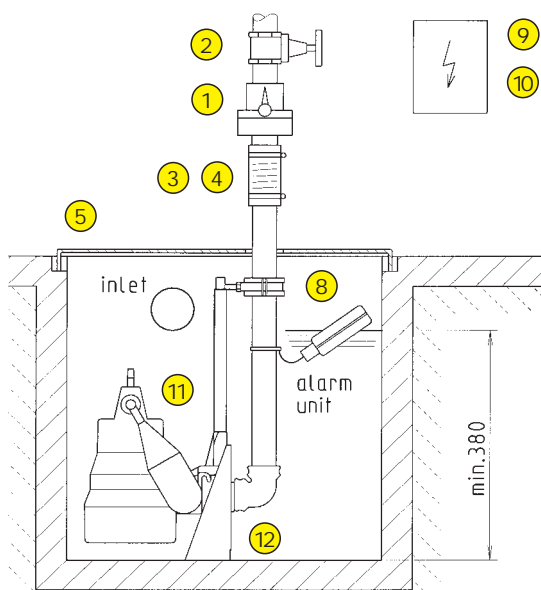
Type	Delivery head H [m]	1	2	3	4	5	6
U 3 K spezial	Flow rate Q [m ³ /h]	6,5	5,5	5,0	4,0	3,0	1,5

Electrical data

Type	Type of current	Voltage Volt	Motor rating kW P ₁ P ₂	RPM min ⁻¹	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.

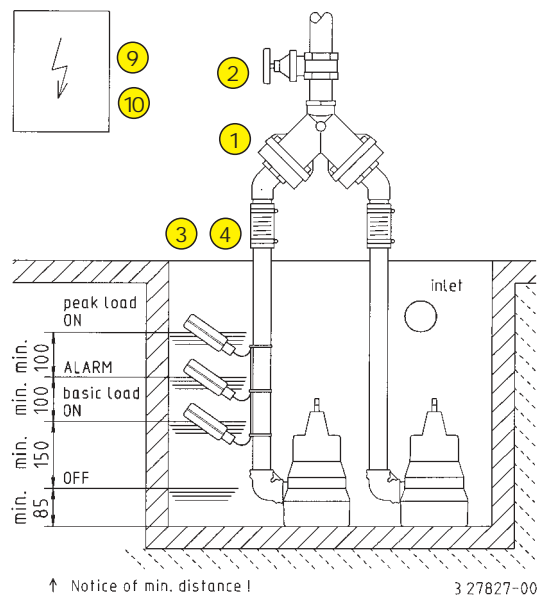


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In case of installation beneath the backpressure level the pressure tube must be taken in a loop over the local backup level acc. to EN 12056. Besides, it must be secured with a EN 12050-4-proofed swing-type check valve. Additionally we recommend an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

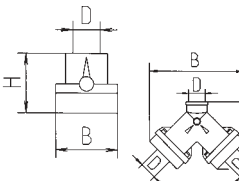
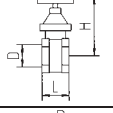


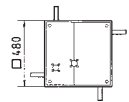
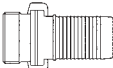

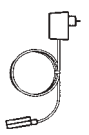
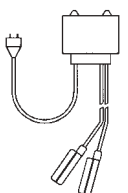



Duplex pump installation

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	
	1 Swing-type check valve 1 1/4" (DN 32), PN 4 EN 12050-4	9739 H B D 90 90 1 1/4"	●	●	
	Double swing-type check valve 1 1/2" (DN 40), PN 4 for double pump station EN 12050-4	9155 H B D 200 280 1 1/2"	●	●	
	2 Stop valve 1 1/4" (DN 32), PN 16 1 1/2" (DN 40), PN 16	11836 H L D 110 max.60 1 1/4"	●	●	
		11837 125 max.60 1 1/2"	●	●	
	3 Elastic connection 1 1/4" (DN 32), PN 3	14329 H D 100 42	●	●	
	4 Hose band clamp 1 1/4"	3573	●	●	
	5 Cover plate* c/w frame, seal and pipe conduct LW 420 Blind plate* c/w frame and seal LW 420	1255 322	●	●	
			●	●	
	6 Hose coupling 1 1/4" (DN 32), brass, for portable use	327	●	●	
	7 Flexible hose 1 1/4" (DN 32), PVC, red, per m, for portable use	334	●	●	
	8 Alarm system with submersible ball contact switch with 3 m cable, separate mainsdependent, with potential free contact	16723	●	●	
	Alarm system ditto, with 9,5 m cable	24434	●	●	
	Alarm system for washing-machines AW 3 with submersible ball contact switch with 3 m cable, separate, mainsdependent	25090	●	●	
	Alarm system for washing-machines AW 10 ditto, with 9,5 m cable	25091	●	●	
	9 Separate level control 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)	16710 16711 16714 16715 17541	●	●	
	Duplex control unit BD 00E	482	●	●	
	Subm. switch pack B with 3 subm. ball contact switches with 9,5 m cable and fixing devices	16725	●	●	
	Subm. switch pack BmG with 3 subm. ball contact switches with 9,5 m cable and counterweight	16726	●	●	
	10 Rechargeable battery for off the line operation of the alarm system	7562	●	●	
	11 Special float for low switching points (Switching height without GR ON 105 mm, OFF 45 mm; switching height with GR 32 ON 140 mm, OFF 75 mm)	17424		●	
	12 Guide rail system GR 32	9277	●	●	
	Support for guide rail extension ex 2 m sump depth, per m 1 piece	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.

