



Application

The U 5 K (S) is an extremely powerful and versatile centrifugal submersible pump for both stationary and portable use. The pump is suitable for faecal-free wastewater with solids up to 10 mm particle size. Thanks to the removable strainer base, it is possible to increase the free passage to 20 mm.

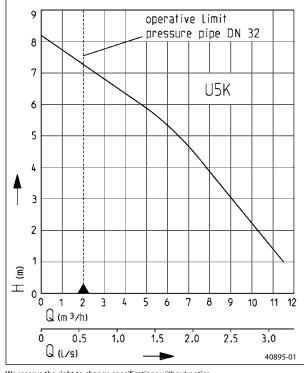
Stationary in a basement chamber or a collecting tank, with an automatic switch attached, the U 5 KS handles all dirty water arising from domestic drainage sources such as washing machines, dishwashers, washstands, etc. Deposit accumulation in the reservoirs and chambers is reduced to a minimum by means of a flushing device.

The guide rail system GR 32 offers all the advantages of fast and easy maintenance. If the sump or tank runs dry temporarily, the pump can be vented by providing a drill-hole in the spiral housing.

The U 5 K can be used as a portable unit for dealing with dirty water from garden ponds, flooded cellars or discharge chambers in laundry rooms or storage rooms. Thanks to its shallow, built-in suction system, it can reduce residual water level to no more than a few millimeters.

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. For construction sites and garden ponds, a H07-type cable must be used.





Performance

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.

- **Continuous operation**
- Low level pumping
- Flushing device
- Built-in level control
- Variable discharge branch
- Safe to run dry
- 10/20 mm free passage with EIP technology
- Swing-type check valve for portable use
- Moisture sealed cable inlet



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



Drainage pumps

Туре		Maximum Height x Width x Depth	Discharge branch	Free passage	Cable quality	Cable length	Weight approx.	Code No.
Pump without level control (not to be utilised on construction sites, as per VDE regulations)								
U 5 K	without bend with bend	280 x 168 x 190 mm 280 x 168 x 250 mm	1¼"	20 mm	H05RN-F-3G0,75	10 m	4.7 kg	JP 09386
Pumps with built-in level control								
U 5 KS (acc. to	o VDE, not to be used outdoors)	280 x 202 x 290 mm	1¼"	20 mm	H05RN-F-3G0,75	3 m	4.5 kg	JP 09387
U 5 KS		280 x 202 x 290 mm	1¼"	20 mm	H07RN-F-3G1,00	10 m	5.4 kg	JP 09417

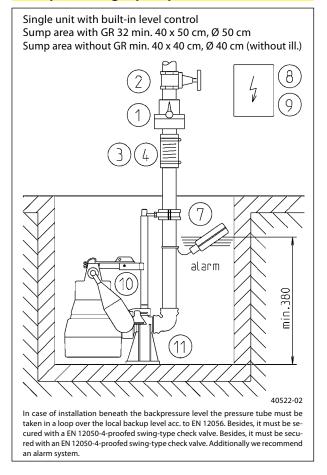
Performance

Туре	Delivery head H [m]	1	2	3	4	5	6	7
U 5 K	Flow rate Q [m ³ /h]	11,5	10.5	9	7.5	6.5	4.5	2.5

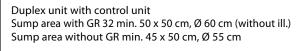
Electrical Data

Туре	Type of current	Voltage Volt	Motor rat P ₁	5	RPM min.⁻¹	Current Ampere	Motor protection	Plug
U 5 K	1-phase	1/N/PE~230	0.52	0.38	2716	2.3	integrated	Safety-

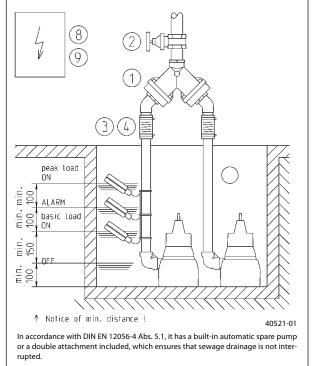
Example of single pump installation with GR



Example of duplex pump installation



Suspend control unit in a dry room.







Accessories

		Code No.	U 5 K	U 5 KS			
	Swing-type check valve 1¼" (DN 32), PN 4 H W D DIN EN 12050-4 90 90 1¼"	JP 09739	•	•			
	Duplex swing-type check valve 1½" (DN 40), PN 4 for duplex pump station DIN EN 12050-4HWD2002801½"	JP 09155	•				
	Stop valve 1¼" (DN 32), PN 16 H W D 110 max. 60 1¼"	JP 11836	•	•			
	1½ (DN 40), PN 16 125 max. 60 1½"	JP 11837	•				
±3	Elastic connection 1¼" (DN 32), PN 3 H D 100 42	JP 14329	•	•			
<u> </u>	Hose band clamp 1¼"	JP 03573	•	•			
s in the second	Hose coupling 1¼" (DN 32), brass, for portable use	JP 00327	•	•			
	Solid fire hose coupling 1 ¼", male thread	JP 41559	•	•			
	Coupling wrench Hose connection 1¼" - 38/32/25	JP 25708 JP 44209	•	•			
6	Flexible hose 1 ¹ / ₄ " (DN 32), PVC red, per m, for portable use	JP 00334	•				
	Alarm system with submersible ball contact switch, separate,	51 00554					
	mains-dependent, with potential free contact and 3 m cable	JP 16723		•			
9	Alarm system ditto, with 9.5 m cable Alarm system AW 3 for washing-machines with submersible ball con-	JP 24434 JP 25090		•			
i na senera de la constante de	Alarm system AW 3 for washing-machines with submersible ball con- tact switch with 3 m cable, separate, mains-dependent						
	Alarm system AW 10 for washing-machines ditto, with 9.5 m cable	JP 25091	•	•			
	Separate level controls for single unit (see level controls for description) NE 1 with sub. ball contact switch 3.0 m	JP 16710	•				
	NE 2 with sub. ball contact switch 9.5 m	JP 16711	•				
Ŭ Ĵ	NE 1A with sub. ball contact switch 3.0 m and alarm system	JP 16714	•				
17 ft	NE 2A with sub. ball contact switch 9.5 m and alarm system	JP 16715	•				
- <u>(</u>)	Counterweight (1 piece)	JP 17541	•				
Ĩ	Duplex control unit (see section on level controls for description)						
	BD 00E	JP 00482	•				
C	Subm. switch pack B with 3 subm. ball contact switches with 9.5 m cable and fixing device	JP 16725	•				
	JP 16726	•					
9	Rechargeable battery for off the line operation of the alarm system	JP 07562	•	•			
	Special float assembly for low switching points (Switching height without GR ON 90 mm, OFF 40 mm)	JP 44207		•			
$\checkmark \bigcirc$	Special float assembly for narrow chambers (chamber min. 30x30 cm) Switching heigth without GR ON 265 mm, OFF 195 mm	JP 40856		•			
	Flaot fixation for continuous pump operation	JP 42175		•			
	Guide rail system GR 32	JP 44000	•	•			
Â	Support for guide rail extension ex 2 m sump depth, per m 1 piece	JP 28314	•	•			

Technical data

Pump

Vertical, single-stage, submersible, foot strainer with 10 mm free passage – detachable for activating low level pumping. With the pump base installed, free passage is 20 mm. Volute casing with 1 ¼" male radial pressure branch, EIP-technology hydraulics with open 5-blade impeller.

Bearings

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

Seal

A shaft seal, which is completely secure against running dry thanks to a three-fold radial shaft seal ring and intermediate oil chamber.

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.

Material

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

Installation

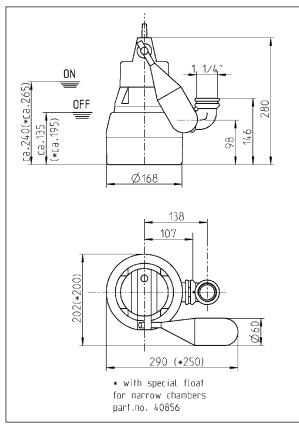
Install pump vertically (hose connection possible); if installed permanently, provide detachable connection, e.g. the uncomplicated and easy to maintain guide rail system GR 32.

Scope of supply

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

The pump is delivered fitted with a strainer base which can be swapped for any of the accompanying pedestols in cases where a 20 mm clear passage is required.

Dimensions U 5 KS (mm)



Dimensions GR 32 (mm)

