

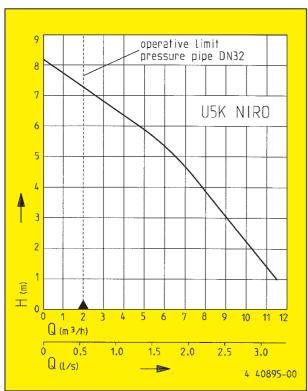
Application

The U 5 K(S) Niro is an extremely versatile submersible pump for stationary and portable use. It can handle effluent of up to 10 mm particle size. Thanks to the removable strainer base, it is possible to increase 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. 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 millimetres. If submersible pumps are used outdoors, only a pump with a 10 m cable, without an extension cable, may be used in accordance with VDE Regulation 0100. For construction sites and garden ponds, an H07-type cable must be used.



The minimum flow velocity in the pressure piping must be 0.7~m/s according to EN 12056. This data is represented in the Q/H performance curve as a limit of application.



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

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



Submersible sump pumps

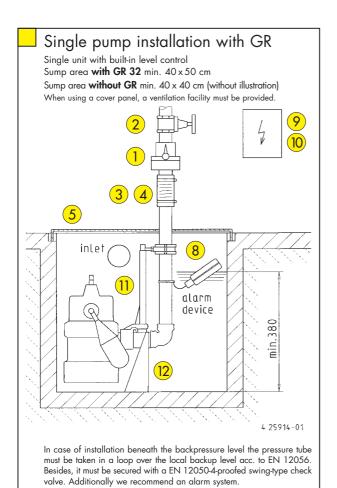
Туре	Max. Height x Width x Depth	Discharge	Free	Cable	Cable	Weight	Code No.			
		branch	passage	quality	length	approxx.				
Pump without	level control (not to be utilised on constructio	n sites, as per	VDE regulati	ons)						
	without bend $280 \times 168 \times 250$ mm with bend $280 \times 168 \times 190$ mm	1 1/4"	20 mm	H05RN-F-3G0,75	10 m	4,7 kg	09386			
Pumps with bu	Pumps with built-in level control									
U 5 KS NIRO	280 x 168 x 290 mm	1 1/4"	20 mm	H05RN-F-3G0,75	3 m	4,5 kg	09387			
(acc. to VDE, no U 5 KS NIRO	t to be used outdoors) 280 x 168 x 290 mm	1 1/4"	20 mm	H05RN-F-3G1,00	10 m	5,4 kg	09417			

Performance

Туре	Delivery head H [m]	1	2	3	4	5	6	7
U 5 KS NIRO	Flow rate Q [m³/h]	11	10,5	9	7,5	6,5	4,5	2,5

Electrical data

Туре	Type of current	Voltage Volt	Motor rat P ₁	ing kW P ₂	RPM min ⁻¹	F.L.C. Amp.	Motorprotection	Plug
U 5 KS NIRO	1-phase	1/N/PE~230	0,52	0,38	2716	2,3	incorporated	safety-



sewage drainage is not interrupted.



Accessories		Code No.	U 5 K NIRO	U 5 KS NIRO
	1 Swing-type check valve 11/4" (DN 32), PN 4, EN 12050-4 H W D 90 90 11/4"	09739	•	•
W B D	Duplex swing-type check valve 1½" (DN 40), PN 4 for double pump station, DIN EN 12050-4 H W R 200 280 1½"	09155	•	
	2 Stop valve <u>H W D</u> 11/4" (DN 32), PN 16 110 max. 60 11/4" 11/2" (DN 40), PN 16 125 max. 60 11/2"	11836 11837	•	•
	3 Elastic connection 11/4" (DN 32), PN 3 H D 100 42	14329	•	•
	4 Hose band clamp 11/4"	03573	•	•
H H H H H H H H H H H H H H H H H H H	5 Cover plate* c/w frame, seal and pipe conduct LW 420 Blind plate* c/w frame and seal LW 420	01255 00322	•	•
	6 Hose coupling 11/4" (DN 32), brass, for portable use	00327	•	•
	7 Flexible hose 11/4" (DN 32), PVC red, per m, for portable use	00334	•	•
	8 Alarm system with submersible ball contact switch 3 m cable, separate, mainsdependent, with potential free contact Alarm system ditto. with 9,5 m cable	16723 24434		•
	Alarm system and: with 9,5 in cable 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 controls for single unit NE 1 with sub. ball contact switch 3,0 m NE 2 with sub. ball contact switch 9,5 m NE 1A with sub. ball contact switch 3,0 m NE 2A with sub. ball contact switch 9,5 m Counterweight (1 piece)	16710 16711 16712 16713 17541	•	
	Control units for duplex unit BD 00E Subm. switch pack BmG with 3 subm. ball contact switches with 9,5 m cable and fixing device Subm. switch pack BmG with 3 subm. ball contact	00482 16725 16726	•	
	switches with 9,5 m cable and counterweight			
	Rechargeable battery for off the line operation of the alarm system	07562	•	•
	11) Special float assembly for narrow chambers (Chamber size min. 30 x 30 cm)	40856		•
	12 Guide rail system GR 32 Support for guide rail extension ex 2 m sump depth, per m 1 piece	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 low level pumping, volute casing with 1½" (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

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

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 foul water resistant flexible cable.

Installation

Install pump vertically (hose connection possible); if installed permanently, provide detachable connection, e.g. 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. The pump is delivered fitted with a sieve foot which can be swapped for any of the accompanying base feet in cases where a 20 mm clear passage is required.

