

## Application

The U 6 K NIRO is suitable for stationary and portable use.

It can be used as a drainage pump for mildly contaminated waste and ground water, in drains with rain water, drainage or seepage water, silage liquor and also liquid manure. The mechanical seal also makes the pump suitable for extracting abrasive media.

In stationary use the U 6 K NIRO ES/DS removes the waste water from domestic appliances such as dish-washers and washing machines (also high temperature), but not from urinals and lavatories. The guide rail system GR 32 offers all the advantages of fast and easy maintenance. Our ready-to-install collecting tanks extend the options for installation and use. Solids of up to 10 mm particle size can be removed by the pump.

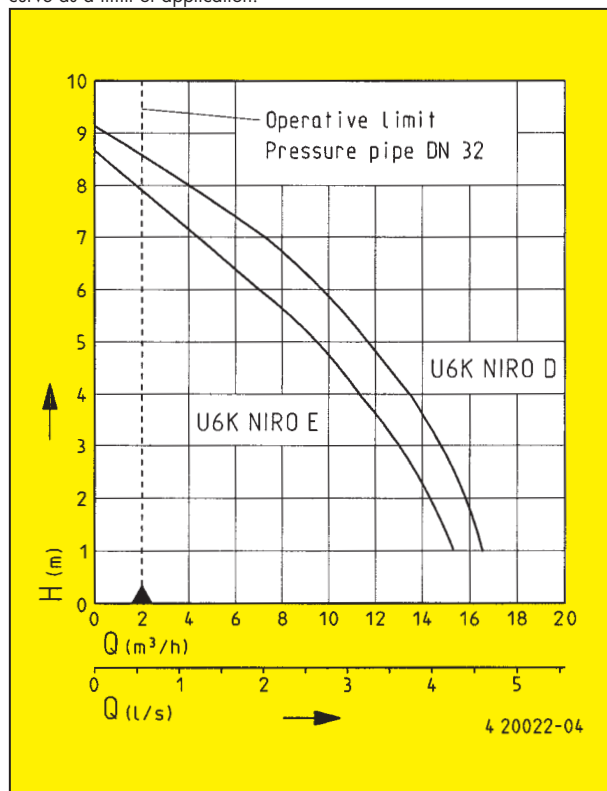
For supporting sewage water with solids up to 10 mm particle size occur we recommend our US series. Especially for the transportable use, in building site areas for example, our building pumps UB should be used.

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.



U 6 K NIRO with built-in level control

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.



- ▶ Variable discharge branch
- ▶ Safe to run dry
- ▶ Portable
- ▶ Continuous operation
- ▶ Controllable oil chamber
- ▶ SiC mechanical seal independent of rotation direction
- ▶ Moisture sealed cable inlet



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

## Submersible drainage pumps

Type	Max. height x width	Discharge branch	Free passage	Cable quality H07RN-F-	Cable length	Weight	Code No.
<b>Pumps without level control</b>							
U 6 K NIRO E	310 x 255 mm	1 1/4"	10 mm	3G1,0	10 m	7,5 kg	<b>00226</b>
U 6 K NIRO D	310 x 255 mm	1 1/4"	10 mm	4G1,0	10 m	8,0 kg	<b>00228</b>
<b>Pumps with built-in level control</b>							
U 6 K NIRO ES	310 x 290 mm	1 1/4"	10 mm	3G1,0	3 m	7,0 kg	<b>00227</b>
U 6 K NIRO DS	310 x 290 mm	1 1/4"	10 mm	4G1,0	3 m	7,0 kg	<b>00229</b>
U 6 K NIRO ES	310 x 290 mm	1 1/4"	10 mm	3G1,0	10 m	7,8 kg	<b>09260</b>
U 6 K NIRO DS	310 x 290 mm	1 1/4"	10 mm	4G1,0	10 m	8,0 kg	<b>09261</b>

## Performance

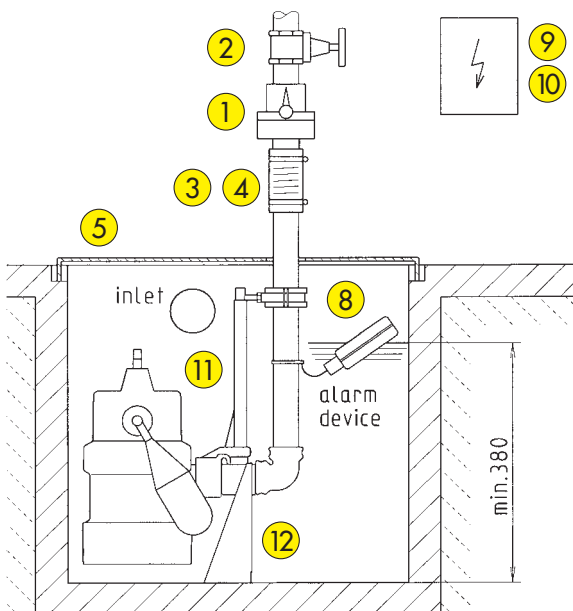
Type	Delivery head H [m]	1	2	3	4	5	6	7	8	9
U 6 K NIRO E/ES	Flow rate Q [m <sup>3</sup> /h]	16	14,5	13	11	9,5	7	4,5	2	
U 6 K NIRO D/DS		17	16	15	13,5	11,5	10	7,5	4	0,5

## 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 6 K NIRO E/ES	1-phase	1/N/PE~230	0,70 0,45	2600	3,4		safety-
U 6 K NIRO D/DS	3-phase	3/PE~400	0,75 0,60	2800	1,3	incorporated	CEE-

### Single pump installation with GR

Sump area **with GR 32** min. 40 x 50 cm  
 Sump area **without GR** min. 40 x 40 cm (without illustration)

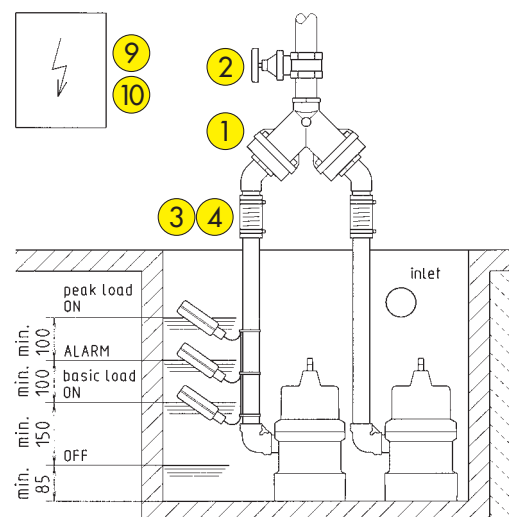


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In case of installation beneath the backpressure level the pressure tube must be taken in a loop over the local backup level acc. to EN 12056. Besides, it must be secured with a EN 12050-4-proofed swing-type check valve. Additionally we recommend an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

### Duplex pump installation

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



↑ Notice of min. distance !

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## Technical data

### Pump

Vertical, single-stage, submersible, with foot strainer, volute casing with radial discharge branch 1 1/4" (outside thread), open 5-blade impeller, free passage 10 mm

### Bearings

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

### Seal

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

### Motor

Submersible, type of enclosure IP 68, insulation class B, starting via plug or automatic circuit, moisture sealed cable inlet, motor thermostat for emergency switch-off on overheating with automatic switch-on after sufficient cooling, continuous operation when not submerged on account of its motor jacket cooling

### Materials

Motor housing in stainless steel, volute casing, impeller and control head in plastic (GFK), shaft from C 45 encapsulated, rubber insulated flexible cable

### Installation

Install pump vertically (hose coupling possible), provide a detachable connection, for example guide rail system GR 32, for permanent installation

### 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

