

Application

The ideal pump for all drainage work. Lightweight, compact and easily portable, this unit can be relied upon for efficient and trouble-free operation in lift wells, garden fountains, greenhouses, basements, pumpwells and reservoirs.

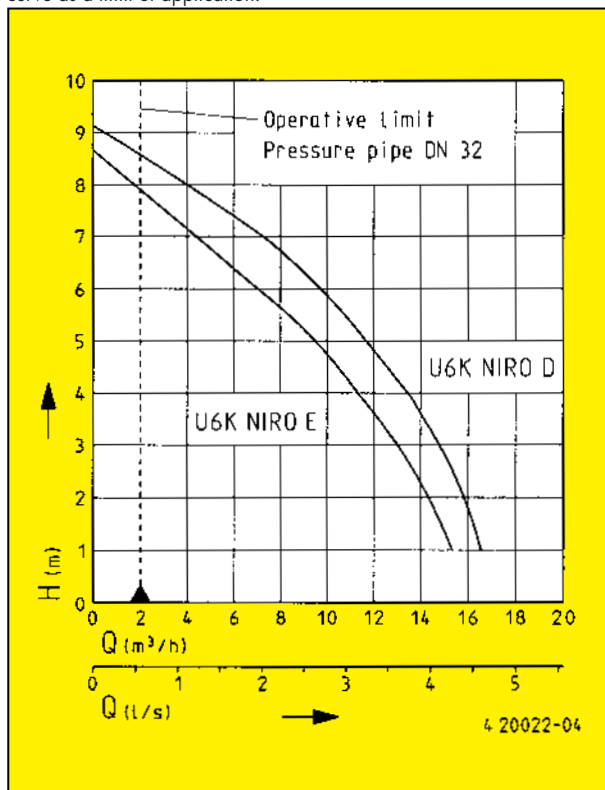
The U 6 K is especially suitable for swimming pools, effluent and similar environments where aluminium alloy and mild steel components would be subject to premature corrosion.

Fitted with mechanical seal and oil chamber these pumps will give reliable service for long periods with minimum supervision and maintenance. A high quality product with all essential parts designed for long life, yet competitively priced and of modern appearance.

For sumps a guide rail system GR 32 is available, which provides an easy removal for routine maintenance and inspection.

For supporting sewage water with solids up to 10 mm particle size occur we recommend our US 62-251. For dealing with contaminated water with solids up to 30 mm and 40 mm (without stones) take our US 73-253, for hot water up to 90° C in the commercial field take the US 73 HE/HES and US 103 HE/HES or the J 67 ET/DT. Especially for the transportable use, in building site areas for example, our building pumps UB 62-251 should be used. In connection with our sumps further types of application are possible.

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



U 6 K NIRO with built-in level control

- ▶ Safe to run dry
- ▶ Portable
- ▶ Variable discharge branch
- ▶ Mechanical seal
- ▶ Moisture sealed cable inlet
- ▶ Controllable oil chamber
- ▶ Z-53.3-334



We reserve the right to change specifications without notice. Pump performance is subject to ISO 2548 tolerances.

Submersible drainage pumps

Type	Max. height x width	Cable H07RN	Free passage	Discharge branch	Weight	Code No.
Pumps without level control						
U 6 K NIRO E	310 x 255 mm	10 m	10 mm	1 1/4"	7,5 kg	226
U 6 K NIRO D	310 x 255 mm	10 m	10 mm	1 1/4"	8,0 kg	228
Pumps with built-in level control						
U 6 K NIRO ES	310 x 290 mm	3 m	10 mm	1 1/4"	7,0 kg	227
U 6 K NIRO DS	310 x 290 mm	3 m	10 mm	1 1/4"	7,0 kg	229
U 6 K NIRO ES	310 x 290 mm	10 m	10 mm	1 1/4"	7,8 kg	9260
U 6 K NIRO DS	310 x 290 mm	10 m	10 mm	1 1/4"	8,0 kg	9261

Performance

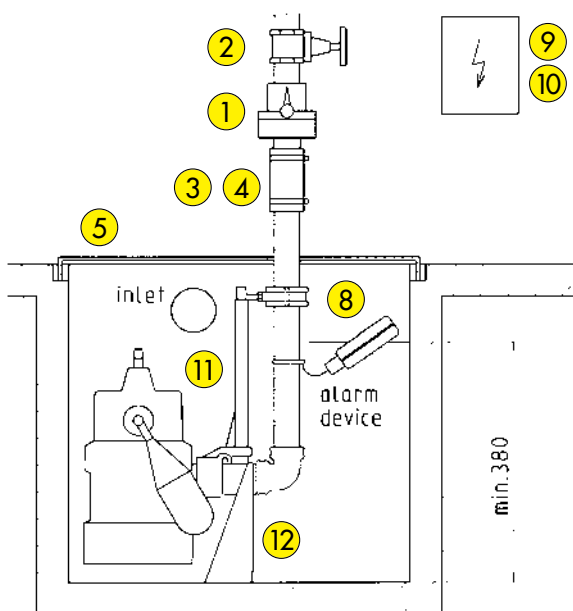
Type	Delivery head H [m]	1	2	3	4	5	6	7	8	9
U 6 K NIRO E/ES	Flow rate Q [m ³ /h]	16	14,5	13	11	9,5	7	4,5	2	
U 6 K NIRO D/DS		17	16	15	13,5	11,5	10	7,5	4	0,5

Electrical data

Type	Type of current	Voltage Volt	Motor rating kW		RPM min ⁻¹	F.L.C. Amp.	Motorprotection	Plug
			P ₁	P ₂				
U 6 K NIRO E/ES	1-phase	230	0,70	0,45	2600	3,4	incorporated	safety-
U 6 K NIRO D/DS	3-phase	400	0,75	0,60	2800	1,3		CEE-

Single pump installation with GR

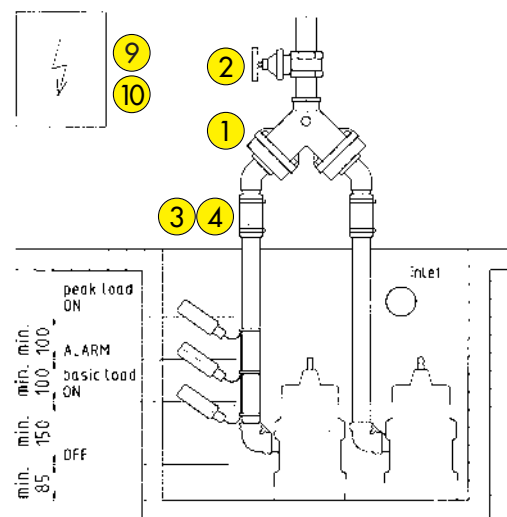
Sump area **with GR 32** min. 40 x 50 cm
 Sump area **without GR** min. 40 x 40 cm (without illustration)



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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 proof cable gland

Materials

Motor housing in stainless steel, volute casing, impeller and control head in plastic (GFK), shaft from C 45 encapsulated, flexible rubber sheathed 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 with 90° 1 1/4" female connection elbow, cable and plug

