

MULTIDRAIN UV 600

SUBMERSIBLE DRAINAGE PUMPS



- High-quality stainless steel design
- 10 mm free passage
- Discharge 2" (horizontal and vertical)
- Automatic self-ventilation
- Emerged operation due to motor jacket cooling (S1)
- Thermal motor protection
- Duplex mechanical seal
- Replaceable moisture sealed cable inlet
- Easy to maintain due to guide rail system

DESCRIPTION

The submersible drainage pumps Multidrain UV 600 have been developed for drainage applications where high delivery heads are required.

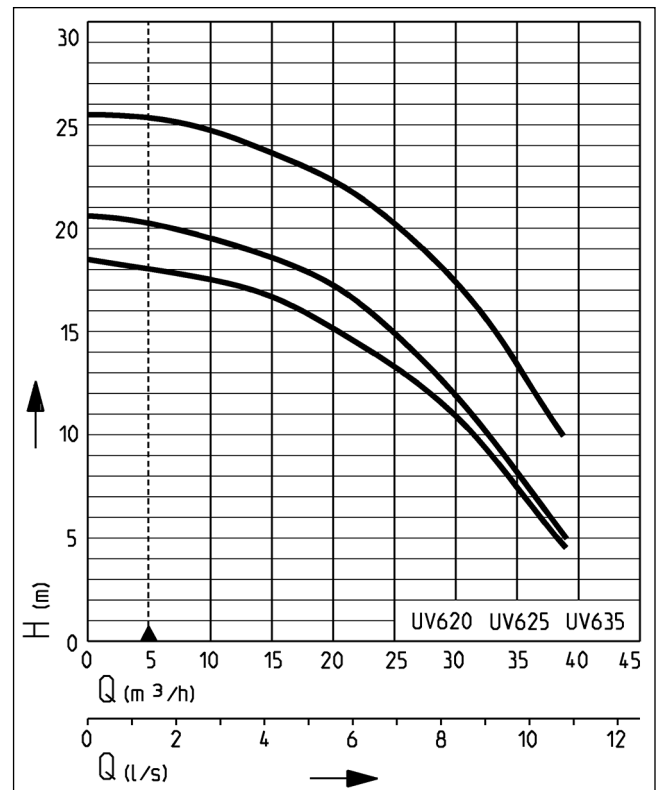
All kind of drainage / greywater with solids up to 10 mm can be disposed from large depths. Shopping centers, high-rise buildings, undergrounds stations and other buildings with deep basements are the right environment for the UV 600 pumps.

In addition to a fix sump installation these pumps can also be used for mobile applications.

The pressure pipe can be connected either to the vertical or the horizontal discharge.

The horizontal one is suitable for sump installations with a guide rail system (GR 50). For mobile applications or in narrow sumps the connection to the vertical discharge port is recommended.

PERFORMANCE



| Type | Delivery head H [m] | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
|----------|-----------------------------------|----|----|----|----|----|----|----|----|----|----|
| UV 620-1 | Flow rate Q [m ³ /h] | 36 | 33 | 30 | 27 | 22 | 16 | | | | |
| UV 620-3 | | 37 | 34 | 32 | 28 | 24 | 18 | 5 | | | |
| UV 625-3 | | 38 | 36 | 33 | 31 | 27 | 23 | 18 | 5 | | |
| UV 635-3 | | | | 39 | 37 | 34 | 32 | 28 | 25 | 20 | 14 |

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

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.

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SCOPE OF SUPPLY

Pump with 10 m cable, automatic version with integrated ball-float switch, plug 2" with automatic ventilation for the outlet not in use.

Special technical note for UV 620-1 / UV 620-1 S:

Due to the high starting current, the approval of the responsible power supplier should be obtained before commissioning these two pump types.

MECHANICAL DATA

| | | | |
|--------------------|----------------------------------|---------------------|---------------------|
| Pump | Vertical single-stage | Oil chamber | Yes |
| Free passage | 10 mm | Seal on medium side | SiC mechanical seal |
| Bearing | Ball bearings, grease-lubricated | Run dry protection | Yes |
| Seal on motor side | Mechanical seal | Submersible | Yes |
| | | Pressure outlet | IG 2" |

ELECTRICAL DATA

| | | | |
|-------------------|--------------|--------------------|-----|
| Power line | 10m H07RN8-F | Insulation class | F |
| Type of enclosure | IP 68 | Winding thermostat | Yes |

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






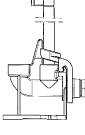

| Type | Code No. | Voltage | Motor rating | | Current | Wires | Motor protection | Plug | Weight |
|------------------------------------|----------------|--------------|--------------|---------|---------|-------|-------------------------|---------|---------|
| | | | P1 | P2 | | | | | |
| Without level control | | | | | | | | | |
| UV 620-1 | JP47337 | 1/N/PE~230 V | 2.40 kW | 1.65 kW | 10.4 A | 3G1,5 | Integrated | Without | 23.0 kg |
| UV 620-3 | JP47339 | 3/PE~400 V | 2.38 kW | 1.95 kW | 4.6 A | 4G1,0 | on request ¹ | Without | 23.0 kg |
| UV 625-3 | JP47341 | 3/PE~400 V | 2.80 kW | 2.28 kW | 5.2 A | 4G1,0 | on request ¹ | Without | 23.0 kg |
| UV 635-3 | JP47343 | 3/PE~400 V | 3.70 kW | 3.05 kW | 6.2 A | 4G1,0 | on request ¹ | Without | 25.5 kg |
| With built-in level control | | | | | | | | | |
| UV 620-1 S | JP47338 | 1/N/PE~230 V | 2.40 kW | 1.65 kW | 10.4 A | 3G1,5 | Integrated | Safety | 23.5 kg |
| UV 620-3 S | JP47340 | 3/PE~400 V | 2.38 kW | 1.95 kW | 4.6 A | 4G1,0 | on request ¹ | Without | 23.5 kg |
| UV 625-3 S | JP47342 | 3/PE~400 V | 2.80 kW | 2.28 kW | 5.2 A | 4G1,0 | on request ¹ | Without | 23.5 kg |
| UV 635-3 S | JP47344 | 3/PE~400 V | 3.70 kW | 3.05 kW | 6.2 A | 4G1,0 | on request ¹ | Without | 26.0 kg |

¹Protective motor plug necessary see accessory

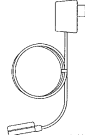
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MECHANICAL ACCESSORY

| | | | | Code No. | |
|--|---------------------------------|------------------|---|---------------|---------|
|  | ① Swing-type check valve | R50 EN 12050-4 | 2" (DN 50), PN 4 | 150x120 (HxB) | JP00326 |
|  | Ball-type check valve | K50 EN 12050-4 | 2" (DN 50), PN 6 | 185x155 (HxB) | JP44782 |
|  | ② Stop valve | | brass, 2" (DN 50), PN 16 | 140x70 (HxB) | JP44787 |
|  | ③ Elastic connection | | 2" (DN 50), PN 4 | 150x63 (HxD) | JP44775 |
|  | ④ Hose band clamp | | 2" | | JP44764 |
|  | ⑤ Hose coupling | Coupling Storz C | 2" male thread | | JP50217 |
| | | Coupling wrench | | | JP25708 |
| | Pressure hose | | 12,5 m, synthetic, with coupling Storz C, Ø 38 mm | | JP50298 |
| | | | 15 m, synthetic, with coupling Storz C, Ø 52 mm | | JP00336 |
|  | ⑥ Chain | | certified, 2.5 m, 320 kg, 5 rings (EN 818 mod.) | | JP45901 |
| | | | certified, 5.0 m, 320 kg, 8 rings (EN 818 mod.) | | JP45902 |
| | | | certified, 7.5 m, 320 kg, 11 rings (EN 818 mod.) | | JP47365 |
| | | | Shackle, certified, 630 kg, stainless steel | | JP45904 |
|  | ⑦ Guide rail system | GR 50 | | | JP25593 |
| | | Securing lever | UV 600 | | JP49171 |
| | | Guide rail 1" | 1500 mm | | JP48937 |
| | | Guide rail 1" | 2000 mm | | JP48938 |
| | | Guide rail 1" | 2500 mm | | JP48939 |
|  | | Guide rail 1" | 3000 mm | | JP48940 |

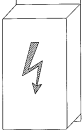
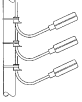

ELECTRICAL ACCESSORY

| | | | | Code No. |
|---|---------------------|------|---|----------|
|  | a Alarm unit | AG10 | subm. ball contact switch, mains dependent, potential-free contact, | JP44892 |
| | | | 9.5 m cable | |

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ELECTRICAL ACCESSORY

| | | Code No. | |
|---|---|---|---------|
|  | b Control for single units Control unit AD 46 Control unit 1-46 Control unit AD 610 Control unit HIGHLOGO 1-610 | JP14353 JP47990 JP14354 JP47991 | |
| | Control for duplex units Control unit BD 46 400 V, for pumps US 251-253, UV 620-3, UV 625-3 Control unit HIGHLOGO 2-46 400 V Control unit BD 610 400 V, for pumps UV 635-3 Control unit HIGHLOGO 2-610 400 V | JP45739 JP47999 JP45741 JP48000 | |
| | Level control Subm. switch pack AmG Subm. switch pack BmG 3 subm. ball contact switch with 9.5 m and counterweight Weight to stabilize the subm. ball contact switch | JP16719 JP16726 JP44803 | |
| | Protective motor plug CEE motor protection 6,0-9,0 A 400 V, mandatory for pumps with integrated motor protection CEE motor protection 4,0-6,0 A 400 V, mandatory for pumps without integrated motor protection | JP44752 JP44751 | |
| |  | | |
| |  | c Rechargeable battery for mains independent alarm | JP44850 |

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