

MULTIDRAIN UV 600

SUBMERSIBLE DRAINAGE PUMPS

- 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.

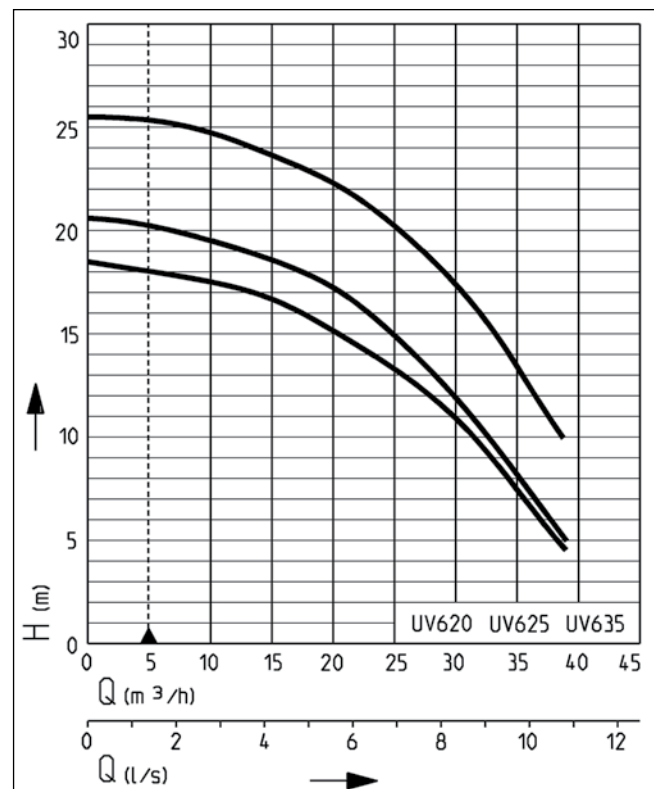
All kind of drainage / greywater with solids up to 10 mm can be disposed from large depths. Shopping centers, high-rise buildings, undergrounds stations and other buildings with deep basements are the right environment for the UV 600 pumps.

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 [m³/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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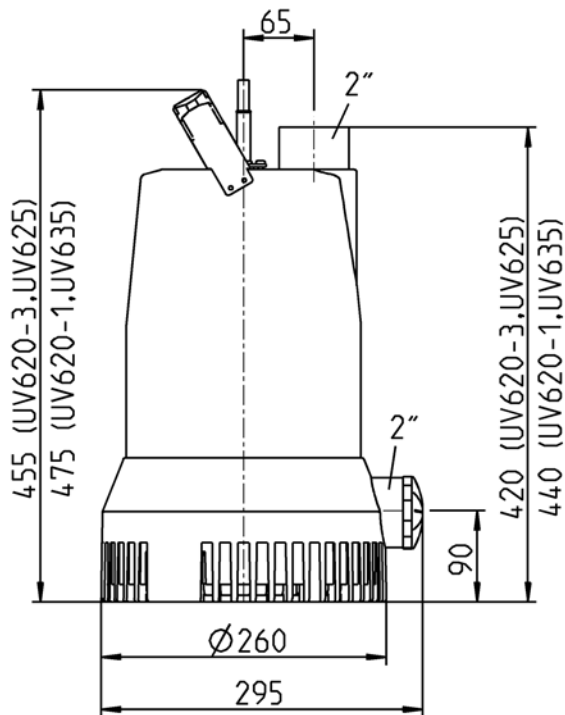
Type	Code No.	Voltage	Motor rating		Current	Wires	Motor protection	Plug	Weight
			P1	P2					
Without level control									
UV 620-1	JP47337	1/N/PE~230 V	2.40 kW	1.65 kW	10.4 A	3G1,5	Integrated	Without	23.0 kg
UV 620-3	JP47339	3/PE~400 V	2.38 kW	1.95 kW	4.6 A	4G1,0	on request ¹	Without	23.0 kg
UV 625-3	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

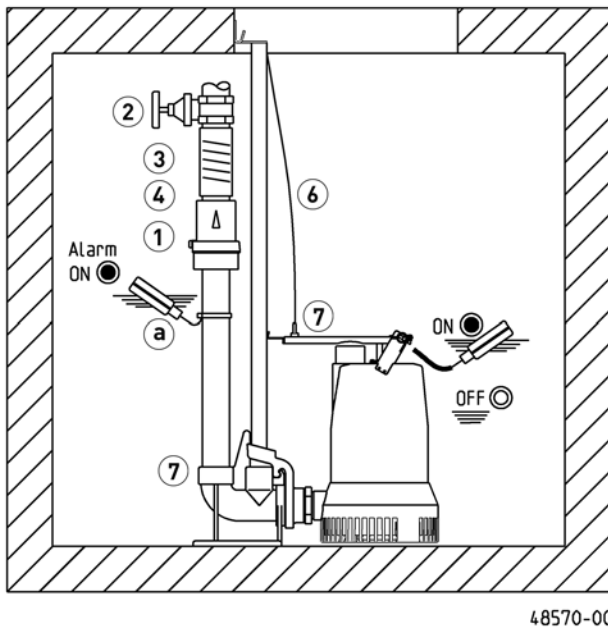
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Dimensions UV 600 (mm)



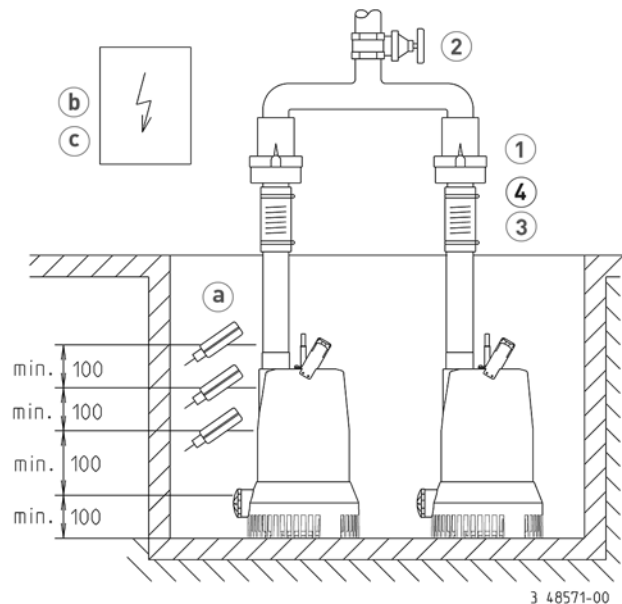
Example of single unit installation with GR



Single unit 2" with GR 50: sump area min. 40x70 cm
 Single unit 2" without GR: sump area min. 40x50 cm
 Duplex unit 2" with GR 50: sump area min. 70x70 cm
 Duplex unit 2" without GR: sump area min. 50x70 cm

In case of installation beneath the backpressure level the pressure tube must be taken in a

Example of duplex unit installation



loop over the local backup level acc. to EN 12056. Besides, it must be secured with an EN 12050-4-proofed swing-type check valve. Additionally we recommend an alarm system.

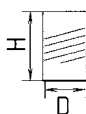
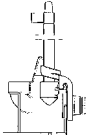
In accordance with EN 12056-4 section 5.1, it has a built-in automatic spare pump or a double attachment included, which ensures that sewage drainage is not interrupted.

Suspend control unit in a dry room

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MECHANICAL ACCESSORY

				Code No.
	① Swing-type check valve	R50 EN 12050-4	2" (DN 50), PN 4	150x120 (HxB)
	Ball-type check valve	K50 EN 12050-4	2" (DN 50), PN 6	185x155 (HxB)
	② Stop valve		brass, 2" (DN 50), PN 16	140x70 (HxB)
	③ Elastic connection		2" (DN 50), PN 4	150x63 (HxD)
	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

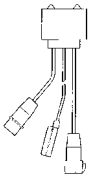
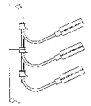
ELECTRICAL ACCESSORY

Alarm unit			Code No.
	PTS.SA1	Level alarm system with battery backup 320x240x150mm (WxDxH)	PTS.SA1
	PTS.HLA	High Level alarm unit. 182x180x111mm (HxWxD)	PTS.HLA
	Power Isolation Alarm	Isolate appliance - in event of alarm no more water will be fed into the alarm system	P734

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ELECTRICAL ACCESSORY

			Code No.
	b Control for single units		
	Control unit AD 46		JP14353
	Control unit 1-46		JP47990
	Control unit AD 610		JP14354
	Control unit HIGHLOGO 1-610		JP47991
	Control unit ND 3A	400 V, subm. ball contact switch 9.5 m, alarm	JP16717
	Control for duplex units		
	Control unit BD 46	400 V, for pumps US 251-253, UV 620-3, UV 625-3	JP45739
	Control unit HIGHLOGO 2-46	400 V	JP47999
	Control unit BD 610	400 V, for pumps UV 635-3	JP45741
	Control unit HIGHLOGO 2-610	400 V	JP48000
	Level control		
	Subm. switch pack AmG		JP16719
	Subm. switch pack BmG	3 subm. ball contact switch with 9.5 m and counterweight	JP16726
	Protective motor plug		
	CEE motor protection 6,0-9,0 A	400 V, mandatory for pumps with integrated motor protection	JP44752
	CEE motor protection 4,0-6,0 A	400 V, mandatory for pumps without integrated motor protection	JP44751
	c Rechargeable battery	for mains independent alarm	JP44850

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