PENTAIR JUNG PUMPEN

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
- NEW: Replaceable handle and weight reduced by 3 kg

DESCRIPTION

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

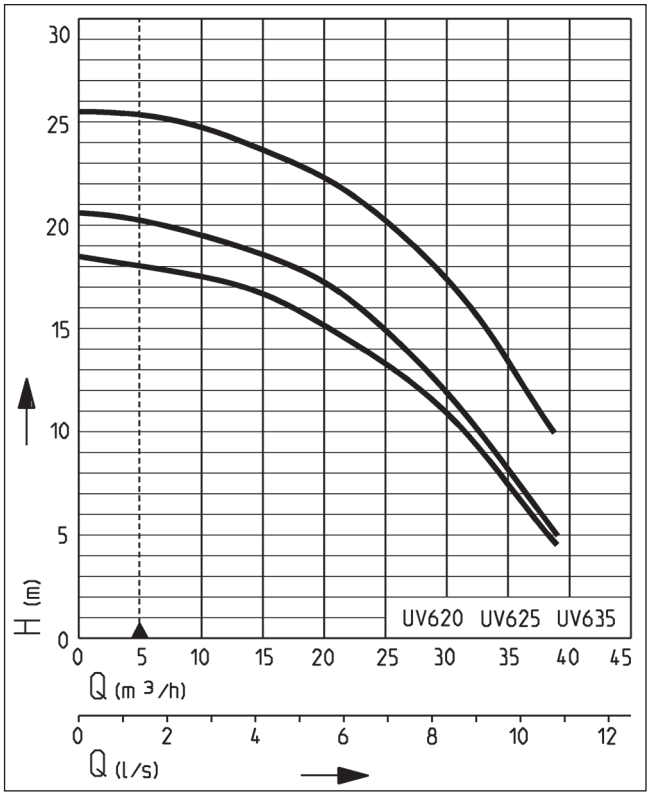
All kind of drainage / greywater with solids up to 10 mm can be disposed from large depths. Shopping centers, high-rise buildings, undergrounds stations and other buildings with deep basements are the right environment for the UV 600 pumps.

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 620-3	Flow rate Q [m³/h]	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
UV 620-1		36	33	30	27	22	16				

Specifications can be changed without notice. Performance 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
		Submersible	Yes
Seal on motor side	Mechanical seal	Pressure outlet	IG 2"

ELECTRICAL DATA

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

MULTIDRAIN UV 600

Type	Code No.	Voltage	Motor rating P1	P2	Current	Wires	Motor protection	Plug	Weight
Without level control									
UV 620-3	**JP50883**	3/PE~400 V	2.38 kW	1.95 kW	4.6 A	4G1,0	on request[1]	Without	20.0 kg
UV 625-3	**JP50885**	3/PE~400 V	2.80 kW	2.28 kW	5.2 A	4G1,0	on request[1]	Without	20.0 kg
UV 635-3	**JP50887**	3/PE~400 V	3.70 kW	3.05 kW	6.2 A	4G1,0	on request[1]	Without	22.5 kg
UV 620-1	**JP50881**	1/N/PE~230 V	2.40 kW	1.65 kW	10.4 A	3G1,5	Integrated	Without	20.0 kg
With built-in level control									
UV 620-1 S	**JP50882**	1/N/PE~230 V	2.40 kW	1.65 kW	10.4 A	3G1,5	Integrated	Safety	20.5 kg
UV 620-3 S	**JP50884**	3/PE~400 V	2.38 kW	1.95 kW	4.6 A	4G1,0	on request[1]	Without	20.5 kg
UV 625-3 S	**JP50886**	3/PE~400 V	2.80 kW	2.28 kW	5.2 A	4G1,0	on request[1]	Without	20.5 kg
UV 635-3 S	**JP50888**	3/PE~400 V	3.70 kW	3.05 kW	6.2 A	4G1,0	on request[1]	Without	23.0 kg

[1]Protective motor plug necessary see accessory

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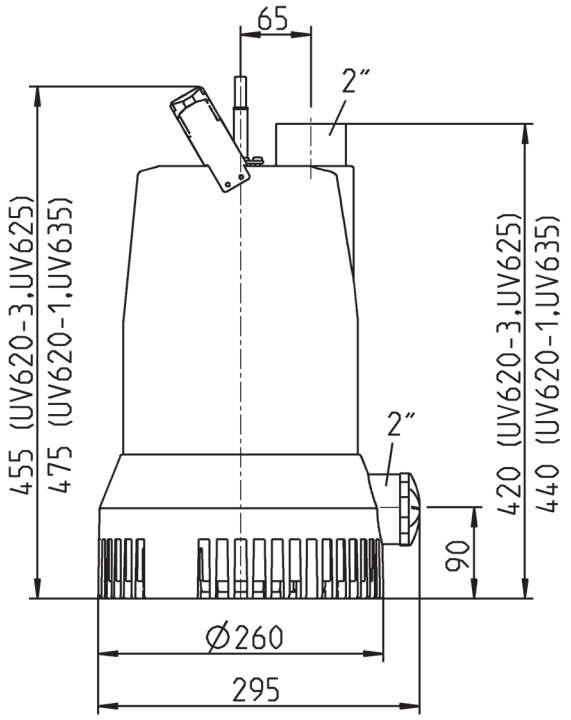
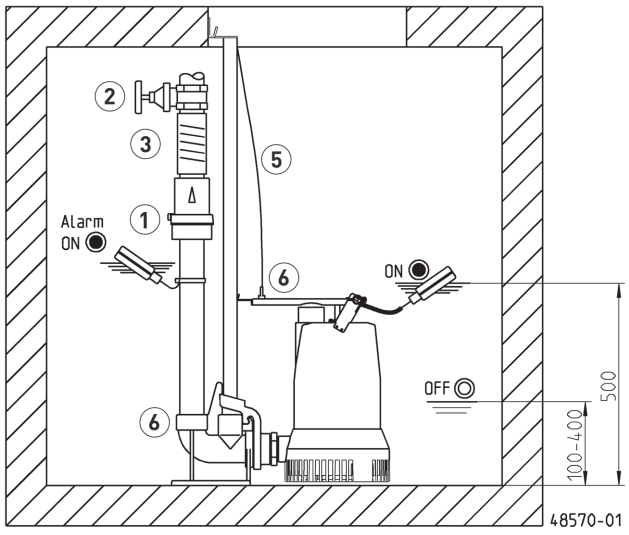
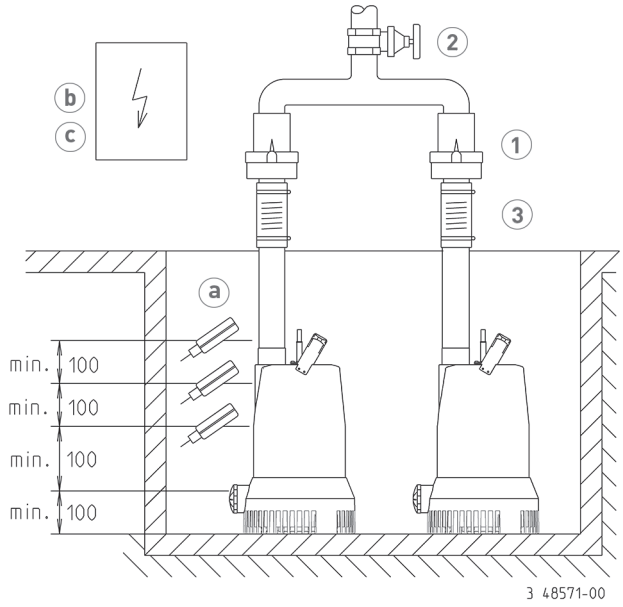
Dimensions UV 600 (mm)



Example of single unit installation with GR



Example of duplex unit installation



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 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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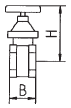
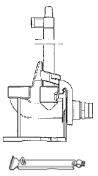
MECHANICAL ACCESSORY

				Code No.
	① **Swing-type check valve**			
	R50 EN 12050-4	2" (DN 50), PN 4	150x120 (HxB)	**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**	+ Hose band clamps, 2" (DN 50), PN 4	150x63 (HxD)	**JP50903**
	④ **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**
	⑤ **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**
	⑥ **Guide rail system**	GR 50		**JP25593**
	Securing lever	UV 600		**JP49171**

ELECTRICAL ACCESSORY

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

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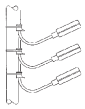
ELECTRICAL ACCESSORY

			Code No.
	(b)	**Control for single units**	
		Control unit 1-46	**JP47990**
		Control unit AD 46	**JP14353**
		Control unit HIGHLOGO 1-610	**JP47991**
		Control unit AD 610	**JP14354**
		Control for duplex units	
		Control unit HIGHLOGO 2-46 400 V	**JP47999**
		Control unit BD 46 400 V, for pumps US 251-253, UV 620-3, UV 625-3	**JP45739**
		Control unit HIGHLOGO 2-610 400 V	**JP48000**
		Control unit BD 610 400 V, for pumps UV 635-3	**JP45741**
		Level control	
		Subm. switch pack AmG 2 subm. ball contact switch with 9.5 m and counterweight	**JP16719**
		Subm. switch pack BmG 3 subm. ball contact switch with 9.5 m and counterweight	**JP16726**
		Weight to stabilize the subm. ball contact switch	**JP44803**
		Protective motor plug	
		CEE motor protection 4.5-6.3 A 400 V with level control	**JP09726**
		CEE motor protection 4.5-6.3 A 400 V, mandatory for pumps without integrated motor protection	**JP44751**
	(c)	**Rechargeable battery** 9 V, for mains independent alarm	**JP44850**