

JUNG PUMPEN US 62–251 SUBMERSIBLE DRAINAGE PUMPS

10 MM FREE PASSAGE

APPLICATION

The centrifugal submersible drainage pumps US 62-251 can be used wherever sewage water with solids up to 10 mm particle size occurs, e.g. in collecting sumps for ground water, or in permanent draining systems for clean water, or handling solids in suspension. They are also ideal for pumping the sewage water from collecting sumps into which dishwashers or washing machines are discharging. For high temperature hot water in the industrial and commercial field we recommend the use of our US 73 and US 103 HE/HES.

This range of pumps is suitable for stationary and portable use. For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection.

For automatic monitoring of the oil chamber a seal leak control can be connected.

Maximum cable length of the pumps is 10 m. 3-phase pumps with level control (US 151 DS, US 152 DS and US 251 DS) have a CEE-Plug with phase inverter.

The sewage pumps are tested by the German Institute for Construction Engineering and correspond to the valid construction and test principles.





US 62 ES

- Safe to run dry
- Easy to maintain due to guide rail systems
- 10 mm free passage

- Controllable oil chamber
- SiC mechanical seal
 - independent of rotation direction
- Replaceable moisture sealed cable inlet



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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Туре	Maximum Height x Width x Depth	Discharge branch	Free passage	Cable quality H07RN-F-	Cable length with plug	Cable ength without plug	Weight approx.	Code No.
Pumps without level control								
US 62 E	380 x 190 x 210 mm	11/2"	10 mm	3G1.0	10 m		12.6 kg	JP09812
US 62 D	380 x 190 x 210 mm	11/2"	10 mm	4G1.0	10 m		12.8 kg	JP09813
US 102 E	410 x 190 x 210 mm	11/2"	10 mm	3G1.0	10 m		14.5 kg	JP09278
US 102 D	410 x 190 x 210 mm	11/2"	10 mm	4G1.0	10 m		15.0 kg	JP00214
US 152 E	435 x 190 x 210 mm	11/2"	10 mm	3G1.0		10 m	16.0 kg	JP09435
US 152 D	435 x 190 x 210 mm	11/2"	10 mm	4G1.0		10 m	17.0 kg	JP09437
Pumps with bu	ilt-in level control							
US 62 ES	380 x 225 x 325 mm	11/2"	10 mm	3G1.0	10 m		12.7 kg	JP09814
US 62 DS	380 x 225 x 325 mm	11/2"	10 mm	4G1.0	10 m		12.9 kg	JP09815
US 102 ES	410 x 225 x 325 mm	11/2"	10 mm	3G1.0	10 m		14.5 kg	JP09279
US 102 DS	410 x 225 x 325 mm	11/2"	10 mm	4G1.0	10 m		15.0 kg	JP00218
US 152 ES	435 x 225 x 325 mm	11/2"	10 mm	3G1.0	10 m		16.0 kg	JP09436
US 152 DS	435 x 225 x 325 mm	11/2"	10 mm	4G1.0	10 m		17.0 kg	JP09438
Pumps without	t level control							
US 151 E	360 x 220 x 310 mm	2"	10 mm	4G1.0		10 m	27.0 kg	JP09310
US 151 D	360 x 220 x 310 mm	2"	10 mm	6G1.5		10 m	27.5 kg	JP09300
US 251 D	360 x 220 x 310 mm	2"	10 mm	6G1.5		10 m	27.5 kg	JP09301
Pumps with bu	ilt-in level control							
US 151 ES	360 x 220 x 310 mm	2"	10 mm	4G1.0	10 m		29.0 kg	JP09241
US 151 DS*	360 x 220 x 310 mm	2"	10 mm	6G1.5	10 m		29.5 kg	JP09243
US 251 DS*	360 x 220 x 310 mm	2"	10 mm	6G1.5	10 m		29.5 kg	JP09245

* CEE-Motorprotection with phase inverter

PERFORMANCE

Туре	Delivery head H [m] 1	2	3	4	5	6	7	8	9	10	11	12	13	14	16
US 62	E/ES	19	17	15	12	10	8	6	4	2			Flow	/ rate (2 [m³/ł	ן]
US 62	D/DS	22	20	17	15	12	10	8	6	4						
US 102	E/ES/D/DS	28	26	23	21	19	17	15	12	10	8	5	2			
US 152	E/ES	30	29	27	24	22	20	18	15	13	11	8	6	3	1	
US 152	D/DS	31	30	28	26	23	21	19	17	14	12	10	8	5	3	
US 151	E/ES/D/DS	40	39	37	35	33	31	29	26	23	20	17	14			
US 251	D/DS	54	52	51	49	47	45	43	40	38	35	32	29	25	21	10

ELECTRICAL DATA

Туре	Type of current	Voltage	Motor ra	Motor rating kW		Current	Motor protection	Plug	
		Volt	P1	P2	min-1	Ampere			
US 62 E/ES	1-phase	1/N/PE~230	0.83	0.50	2510	3.9	integrated	Safety-	
US 62 D/DS	3-phase	3/PE~400	0.85	0.60	2800	1.4	integrated	CEE-	
US 102 E/ES	1-phase	1/N/PE~230	1.37	0.98	2700	6.0	integrated	Safety-	
US 102 D/DS	3-phase	3/PE~400	1.36	1.06	2740	2.4	integrated	CEE-	
US 152 E	1-phase	1/N/PE~230	1.60	1.21	2814	7.5	on site*	-	
US 152 ES	1-phase	1/N/PE~230	1.60	1.21	2814	7.5	integrated	Safety-**	
US 152 D	3-phase	3/PE~400	1.70	1.41	2815	3.1	on site*	-	
US 152 DS	3-phase	3/PE~400	1.70	1.41	2815	3.1	integrated	CEE-**	
US 151 E	1-phase	1/N/PE~230	1.68	1.19	2812	7.6	on site*	-	
US 151 ES	1-phase	1/N/PE~230	1.68	1.19	2812	7.6	integrated	Safety-**	
US 151 D	3-phase	3/N/PE~400	1.60	1.30	2925	3.0	on site*	-	
US 151 DS	3-phase	3/N/PE~400	1.60	1.30	2925	3.0	integrated	CEE-**	
US 251 D	3-phase	3/N/PE~400	2.60	2.10	2860	4.4	on site*	-	
US 251 DS	3-phase	3/N/PE~400	2.60	2.10	2860	4.4	integrated	CEE-**	

* additional requirements. see technical data or accessories ** Protective motor plug

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ACCESSORIES

				Н	W	D	Code No.	62 E	62 ES	62 D	62 DC	102
	0	Swing-type check valve 11/2	2" (DN 40), PN 4	150	120	11⁄2"	JP00317	•	•	•	•	•
D		DIN EN 12050-4 2"	(DN 50), PN 4	150	120	2"	JP00326					
		Ball check valve 2"	(DN 50), PN 6	185	155	2"	JP44782					
B		Fibow ball check valve 11/	6" (DN 40) PN 6	170	125	11/2"						
B		DIN EN 12050-4	2 (BIT 40), 1110,	170	120	172	JP44783	•	•	•	•	•
		Duplex swing-type check valve 11/	′2" (DN 40), PN 4	200	280	11⁄2"						
A CAR		DIN EN 12050-4					JP09155	•		•		•
	2	Stop valve 11/2	2" (DN 40), PN 16	Н	W	D						
				125	max.6	0 11⁄2"	JP44/86	•	•	•	•	•
		2"	(DN 50), PN 16	140n	nax.6	7 2"	JP44787					
D.	3	Elastic connection 11/	2" (DN 40), PN 4	<u>H</u>	D		JP44777	•	•	•	•	•
щ		2"	(DN 50) PN /	120 150	50 63		IP///775					
\sim	4	Hose band clamp 11/2	2 ["]	100	00		JP44763	•	•	•	•	•
	_	2"					JP44764					
	5	Elbow 2"					JP45953 JP44771	•	•	•	•	•
Ē.	6	Alarm unit AG3 with submersible ba	all contact switch, se	parat	e,		JP44891		•		•	
		mains-dependent, with potential-fre	ee contact and 3 m ca	able								
		Alarm unit AG10 ditto, with 9.5 m c	cable	la ha			JP44892		•		•	
E		switch with 3 m cable, separate, m	ains-dependent	ne pa	u con	laci	JP44895	•	•	•	•	•
		Senarate level controls for single	unit (see level contro	le for	dosc	rintion						
	V	NE 1 (Single-phase current) wit	ווטרוז) ו	JP16710	•				•			
		NE 2 (Single-phase current) wit	n	JP16711	•				•			
100+100+125		ND 1 (3-phase current) wit	1	JP16712			•					
ND 1		NE 1A (Single-phase current) with	n system	JP16714	•		-		•			
		NE 2A (Single-phase current) with	n system	JP16715	•				•			
<i>w</i> 📙		ND 1A (3-phase current) with	h sub. ball contact switch 3	JP16716			•					
		Counterweight (1 piece)	TSUD. Datt contact Switch 7	.J III a	nu atai	in system	JP44803	•		•		•
		Duplex control units (see section o	n level controls for d	escri	ption)							
BD		BD 00 E [Single-phase current] BD 610 FC [Single-phase current)	with operating capac	itorl			JP45735 IP45743	•				•
4		BD 00 (3-phase current)	with operating capac	101)			JP45993			•		
V		BD 25 (3-phase current)					JP45737					
		BD 46 [3-phase current] Subm switch pack B with 3 subm ball cor	ntact switches with 9.5 m	cable	and fix	ina device	JP45739 JP16725	•		•		•
В		BmG with 3 subm. ball contact switches w	rith 9,5 m cable and count	terwei	ght		JP16726	•		•		•
R		Protective motor safety plug- 230	V (without level cont	rol)			JP40264					
		Protective motor plug- 8 A, 230 V P	(without level control)0 V (without level con	u ntrol)			JP44753 JP44754					
		CEE-Protective motor plug- 400 V	(without level contro	ol)	2,8-4	,0 A	JP44750					
					4,0-6	,0 A	JP44751					
	8	Rechargeable battery for off the lin	ne operation of the a	larm	syste	m	JP44850	•	•	•	•	•
<u>70</u>	9	Seal leak detector DKG					JP44900	•	•	•	•	•
	10	Special float assembly for low swit Switching points US 62 ON/OFF	tching points * US 102 ON/OFF U	JS 15	2 ON/	OFF						
		without GR 155/105 mm	185/135 mm 2	210/1	60 mn	n	JP44795		•		•	
000	1	Chain certified. stainless steel 2.5	m, 5 rinas.160 ka. (F	EN818	mod	.)	JP45901	•	•	•	•	•
	-	Chain certified, stainless steel, 5.0	m, 8 rings,160 kg, (E	EN818	mod	.)	JP45902	•	•	•	•	•
	12	Webbing with Shackle A 0.6					JP45168	•	•	•	•	•
4	13	Guide rail system GR 40					JP25592	•	•	•	•	٠
* only for single units		in connection with a motor protection plug	×Control unit on request				51 20070					

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Example of single pump installation with GR US 62+102+152 sump area with GR 40 min. 40 x 60 cm US 62+102+152 sump area without GR min. 40 x 40 cm (without illustration) US 151+251 sump area with OR 50 min. 40 x 70 cm (without illustration) US 151-251 sump area without GR min. 40 x 50 cm (without illustration) US 151-251 sump area without GR min. 40 x 50 cm (without illustration)

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alarm device

.385-US62 .415-US102 .440-US152

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25893-06 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.

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(12)

Example of duplex pump installation

US 62+102+152 sump area without GR min. 40 x 60 cm US 62+102+152 sump area with GR 40 min. 60 x 60 cm (without llustration) US 151+251 sump area without GR min. 50 x 70 cm (without llustration) US 151+251 sump area with GR 50 min. 70 x 70 cm (without illustration)



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

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TECHNICAL DATA

Pump

Vertical, single-stage, submersible, open centrifugal impeller with 10 mm free passage

US 62, US 102 and US 152: volute casing with discharge branch 1½" (female thread).

US 151 and US 251: spiral casing with horizontal discharge 2" (female thread).

Bearings

Common shaft for pump and motor, with ball bearings, deep groove ball bearing with grease chamber (US 151 and 251 with angular ball bearings).

Seal

Silicon carbide mechanical seal, oil chamber and duplex rotary seal towards the motor section, safe to run dry, a seal leak control can be connected.

Motor

Submersible, motor type of enclosure IP 68, insulation class B or F (US 151 and US 251), winding thermostat protects the motor from overload, starting via plug, automatically via mounted circuit or submersible ball contact switches.

US 152: To protect the motor, a correct adjusted motor protecting switch has to be provided in the control unit at site by the customer.

US 151 E: To protect the motor, a correct adjusted motor protecting switch and an operating capacitor 30 μ F have to be provided in the control unit at site by the customer.The winding thermostat (provided by customer in the control unit) must be corrected in series with the input side of the motor contactor.

US 151 D und US 251 D: To protect the motor, a correct adjusted motor protection switch has to be provided in the control unit at site by the customer. The winding thermostat (provided by customer in the control unit) must be corrected in series with the input side of the motor contactor.

Materials:

Volute casing or spiral housing made off GG grey cast iron, power supply through rubber insulated flexible cable.

US 62, US 102 and US 152: Terminal board lid, open centrifugal impeller, wear plate and foot strainer made off GRP, motor casing and shaft from stainless steel.

US 151 and US 251: Motor casing and cable inlet made of GG grey cast iron, open centrifugal impeller and foot strainer made of GRP, rubber coated wear plate, shaft from C 45 steel encapsulated

Installation

Pump can be installed free standing or in connection with guide rail system GR 40 or GR 50.

Scope of supply

Pump according to DIN EN 12050 ready for connection with 10 m cable. US 62 and US 102 with safety plug (1-phase) or CEE-Plug (3-phase).

US 151, US 152 and 251: Pumps without level control with free lead end. Pump with built-in level control with CEE-Plug and phase inverter (3-phase) or safetyplug (1-phase).

