

# JUNG PUMPEN US 75-155

## SUBMERSIBLE DRAINAGE PUMPS

50 MM FREE PASSAGE

### APPLICATION

The centrifugal submersible drainage pumps US 75-155 are suitable for dealing with notably contaminated water and capable of handling solids up to 50 mm particle size. With their free passage of 50 mm, these pumps are able to pump solids and fibers quickly, reliably and above all without blockage!

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. A controllable oil chamber and wear-resistant special mechanical seal ensure a long service life. The integrated winding thermostats protect the motor from overload.

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

Maximum cable length is 10 m. The US 155 DS 3-phase pump with level control has a CEE-Plug with phase inverter.

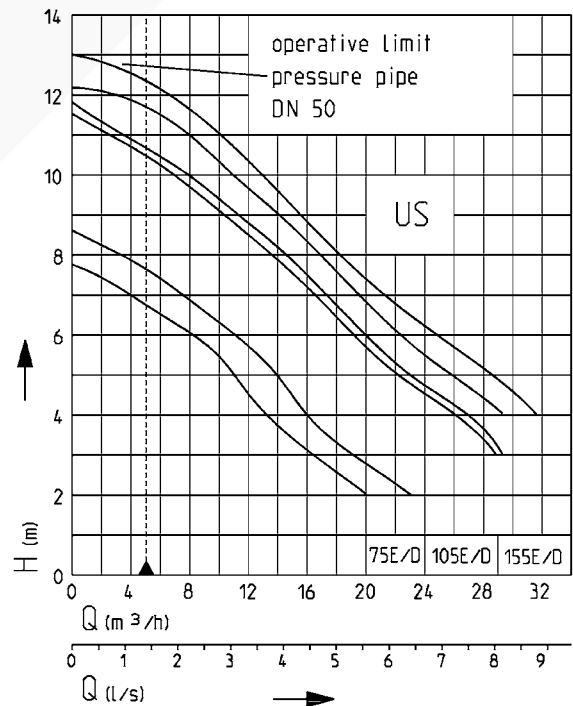
The sewage pumps are tested by the German Institute for Construction Engineering and correspond to the valid construction and test principles.



US 105 ES

- Safe to run dry
- Easy to maintain due to guide rail systems
- 50 mm free passage
- Controllable oil chamber
- SiC mechanical seal independent of rotation direction
- Replaceable moisture sealed cable inlet

### PERFORMANCE



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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Type	Maximum Height x Width x Depth	Discharge branch	Free passage	Cable quality H07RN-F-	Cable length	Weight approx.	Code No.
US 75 E	395 x 200 x 230 mm	2"	50 mm	3G1,0	10 m	13,0 kg	<b>JP09406</b>
US 75 D	395 x 200 x 230 mm	2"	50 mm	4G1,0	10 m	13,1 kg	<b>JP09404</b>
US 105 E	425 x 200 x 230 mm	2"	50 mm	3G1,0	10 m	14,5 kg	<b>JP09410</b>
US 105 D	425 x 200 x 230 mm	2"	50 mm	4G1,0	10 m	15,1 kg	<b>JP09408</b>
US 155 E*	450 x 200 x 230 mm	2"	50 mm	3G1,0	10 m	16,0 kg	<b>JP09388</b>
US 155 D*	450 x 200 x 230 mm	2"	50 mm	4G1,0	10 m	16,5 kg	<b>JP09390</b>
Pumps with built-in level control							
US 75 ES	395 x 240 x 335 mm	2"	50 mm	3G1,0	10 m	13,0 kg	<b>JP09407</b>
US 75 DS	395 x 240 x 335 mm	2"	50 mm	4G1,0	10 m	13,2 kg	<b>JP09405</b>
US 105 ES	425 x 238 x 335 mm	2"	50 mm	3G1,0	10 m	14,6 kg	<b>JP09411</b>
US 105 DS	425 x 238 x 335 mm	2"	50 mm	4G1,0	10 m	15,2 kg	<b>JP09409</b>
US 155 ES	450 x 240 x 335 mm	2"	50 mm	3G1,0	10 m	16,3 kg	<b>JP09389</b>
US 155 DS**	450 x 240 x 335 mm	2"	50 mm	4G1,0	10 m	17,2 kg	<b>JP09391</b>

\* without plug    \*\* CEE-Motorprotection with phase inverter

### PERFORMANCE

Type	Delivery head H [m]	2	3	4	5	6	7	8	9	10	11	12
US 75 E/ES	Flow rate Q [m³/h]	20	16	13	10	7	4					
US 75 D/DS		23	19	16	12	10	7	3				
US 105 E/ES			28	25	22	19	16	13	10	7	3	
US 105 D/DS			29	26	23	20	17	14	11	8	4	
US 155 E/ES				29	26	22	20	16	14	11	8	2
US 155 D/DS				31	28	25	21	19	16	13	10	6

### ELECTRICAL DATA

Type	Type of current	Voltage Volt	Motor rating kW		RPM min-1	Current Ampere	Motor protection	Plug
			P1	P2				
US 75 E/ES	1-phase	1/N/PE~230	0,83	0,50	2510	3,9	integrated	Safety-
US 75 D/DS	3-phase	3/PE~400	0,85	0,60	2800	1,4	integrated	CEE-
US 105 E/ES	1-phase	1/N/PE~230	1,37	0,98	2700	6,0	integrated	Safety-
US 105 D/DS	3-phase	3/PE~400	1,36	1,06	2740	2,4	integrated	CEE-
US 155 E	1-phase	1/N/PE~230	1,60	1,21	2814	7,5	on site*	-
US 155 ES	1-phase	1/N/PE~230	1,60	1,21	2814	7,5	integrated	Safety-**
US 155 D	3-phase	3/PE~400	1,70	1,41	2815	3,1	on site*	-
US 155 DS	3-phase	3/PE~400	1,70	1,41	2815	3,1	integrated	CEE-**

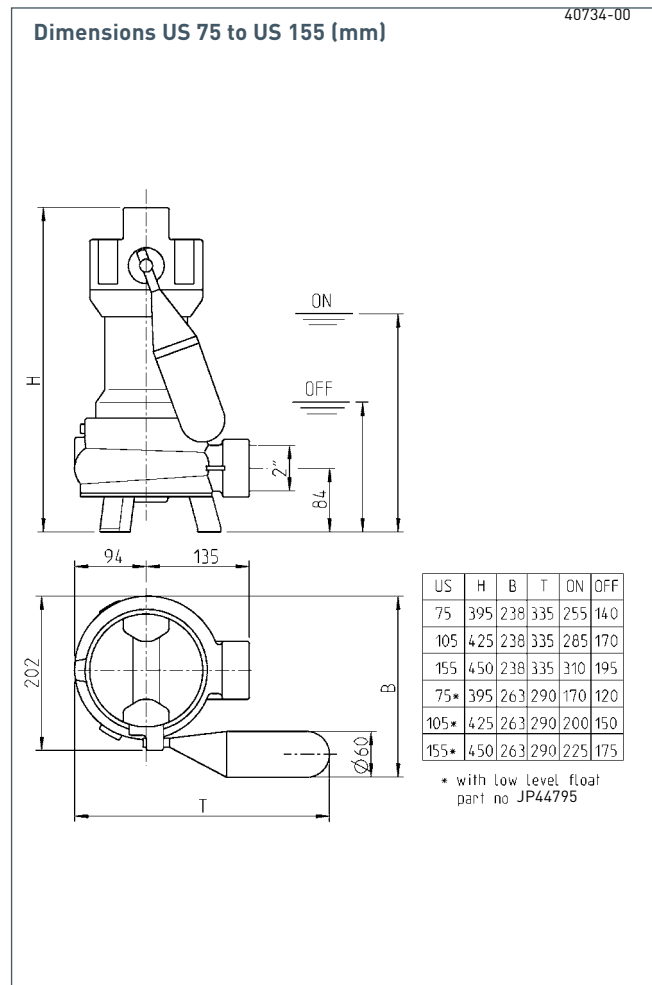
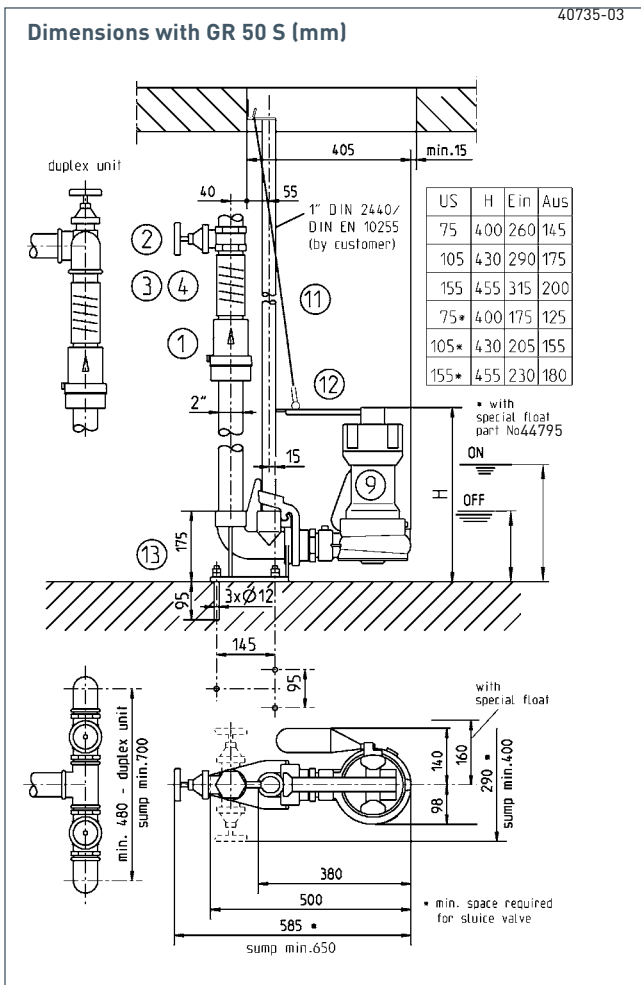
\* additional requirements, see technical data or accessories

\*\* Protective motor plug

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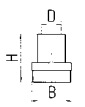




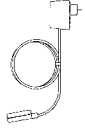








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### ACCESSORIES

				Code No.	75 E	75 ES	75 D	75 DS
<b>Pump without plug</b> (for connection to duplex control unit)								
	①	<b>Swing-type check valve</b> DIN EN 12050-4	2" (DN 50), PN 4	$\frac{H}{150} \frac{W}{120} \frac{D}{2"}{2"}$	<b>JP00326</b>	•	•	•
		<b>Ball check valve</b> DIN EN 12050-4	2" (DN 50), PN 6	185 155 2"	<b>JP44782</b>	•	•	•
	②	<b>Stop valve</b>	2" (DN 50), PN 16	$\frac{H}{140} \frac{W}{\text{max. } 67} \frac{D}{2"}$	<b>JP44787</b>	•	•	•
	③	<b>Elastic connection</b>	2" (DN 50), PN 4	$\frac{H}{150} \frac{D}{63}$	<b>JP44775</b>	•	•	•
	④	<b>Hose band clamp</b>	2"		<b>JP44764</b>	•	•	•
	⑤	<b>Elbow 2"</b>			<b>JP44771</b>	•	•	•
	⑥	<b>Alarm unit AG3</b> with submersible ball contact switch, separate, mains-dependent, with potential-free contact and 3 m cable			<b>JP44891</b>		•	•
		<b>Alarm unit AG10</b> ditto, with 9.5 m cable			<b>JP44892</b>		•	•
		<b>Alarm unit washing machine stop AW3</b> with submersible ball contact switch with 3 m cable, separate, mains-dependent			<b>JP44895</b>	•	•	•
	⑦	<b>Separate level controls</b> for single unit (see NE level controls for description)						
		NE 1 (1-phase current) with sub. ball contact switch 3.0 m			<b>JP16710</b>	•		
		NE 2 (1-phase current) with sub. ball contact switch 9.5 m			<b>JP16711</b>	•		
		ND 1 (3-phase current) with sub. ball contact switch 3.0 m			<b>JP16712</b>		•	
		ND 3 (3-phase current) with sub. ball contact switch 9.5 m			<b>JP16713</b>		•	
		NE 1A (1-phase current) with sub. ball contact switch 3.0 m and alarm system			<b>JP16714</b>	•		
		NE 2A (1-phase current) with sub. ball contact switch 9.5 m and alarm system			<b>JP16715</b>	•		
		ND 1A (3-phase current) with sub. ball contact switch 3.0 m and alarm system			<b>JP16716</b>			•
		ND 3A (3-phase current) with sub. ball contact switch 9.5 m and alarm system			<b>JP16717</b>			•
		Counterweight (1 piece)			<b>JP44803</b>	•		•
		<b>Duplex control units</b> (see section on level controls for description)						
		BD 00 E (1-phase current)			<b>JP45735</b>	•		
		BD 00 (3-phase current)			<b>JP45993</b>			•
		BD 25 (3-phase current)			<b>JP45737</b>			
	Subm. switch pack B with 3 subm. ball contact switches w. 9.5 m cable a. fixing devices			<b>JP16725</b>	•		•	
	BmG with 3 subm. ball contact switches with 9.5 m cable and counterweight			<b>JP16726</b>	•		•	
	<b>Protective motor plug</b> – 8 A, 230 V (without level control)			<b>JP44753</b>				
	<b>Protective motor plug</b> – 2.5–4 A, 400 V (without level control)			<b>JP44754</b>				
	⑧	<b>Rechargeable battery</b> for off the line operation of the alarm system			<b>JP44850</b>	•	•	•
	⑨	<b>Seal leak detector</b> DKG			<b>JP44900</b>	•	•	•
	⑩	<b>Special float assembly</b> for low switching points						
		Switching points US 75 ON/OFF US 105 ON/OFF US 155 ON/OFF			<b>JP44795</b>		•	•
		without GR 170/120 mm 200/150 mm 225/175 mm with GR 175/125 mm 205/155 mm 230/180 mm						
	⑪	<b>Chain</b> certified, stainless steel, 2.5 m, 5 rings, 160 kg, (EN 818 mod.)			<b>JP45901</b>	•	•	•
	⑫	<b>Webbing with shackle</b> A 0.6			<b>JP45168</b>	•	•	•
	⑬	<b>Guide rail system</b> GR 50 S			<b>JP40740</b>	•	•	•
		<b>Foot strainer</b> , 10 mm free passage			<b>JP25135</b>	•	•	•
		<b>Pump pedestal</b> stainless steel, 50 mm free passage			<b>JP40632</b>	•	•	•

\* only for single units    ♦ only in connection with a motor protection plug    ✕ Control unit on request



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### TECHNICAL DATA

#### Pump

Vertical, single stage, submersible, open centrifugal impeller, spiral housing with free inlet. Free passage 50 mm, horizontal discharge branch with 2" female thread.

#### Bearings

Common shaft for pump and motor, with ball bearings, deep groove ball bearing with grease chamber.

#### 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, winding thermostat protects the motor from overload, starting via plug, automatically via mounted circuit or submersible ball contact switches.

US 155: To protect the motor, a correct adjusted motor protecting switch has to be provided in the control unit at site by the customer.

#### Material

Spiral housing made of GG grey cast iron, power supply through rubber insulated flexible cable.

Terminal board lid, vortex impeller and wear plate made of GRP, motor casing and shaft in stainless steel.

#### Installation

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

#### Scope of supply

Pump according to DIN EN 12050 ready for connection with 10 m cable. Foot strainer made of GRP enclosed.

US 155: Pumps without level control with free lead end. Pump with level control with CEE-Plug and phase inverter (3-phase) or safety-plug (1-phase).

