

JUNG PUMPEN US 73 HE/103 HE HEAVY DUTY SUBMERSIBLE DRAINAGE PUMPS

FOR HOT WATER OPERATION

APPLICATION

The heavy duty centrifugal submersible drainage pumps US 73 and 103 HE/HES are suitable for dealing with very contaminated water and capable of handling solids up to 30 mm particle size without stones. These pumps can be used wherever wastewater up to 194°F (90°C) is involved, such as in laundries or automatic laundrettes, or in industrial dishwashers and washing machines or for the emergency overflow of heating systems.

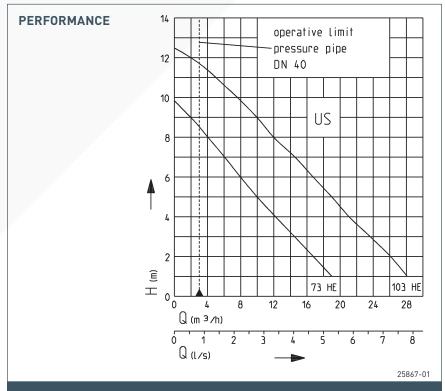
This range of pumps is suitable for stationary and portable use. For easy removal of the pumps from deep sumps we recommend the use of our guide rail systems which provide ease of maintenance and inspection. A controllable oil chamber and wear-resistant special mechanical seal ensure a long service life. The integrated winding thermostats protect the motor from overload.

In conjunction with the drain master Hebefix 100 H, it provides a ready to install solution for conveying wastewater up to 176°F (80°C).



US 73 HES

- Safe to run dry
- 30 mm free passage
- Hot water up to 194°F (90°C)
- 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.

D 116-4.2-EN-1607

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SUBMERSIBLE DRAINAGE PUMPS FOR CONVEYING HOT WATER

Туре		Max. Height x Width	Discharge branch	Free passage	Cable quality H07RN-F-	Cable length	Weight approx.	Code no.
US 73 HE	(without level control)	380 x 210 mm	11/2"	30 mm	3G1.0	10 m	12.4 kg	JP09267
US 73 HES	(with level control)	380 x 330 mm	11/2"	30 mm	3G1.0	10 m	12.5 kg	JP09264
US 103 HE	(without level control)	410 x 210 mm	11/2"	30 mm	3G1.0	10 m	14.0 kg	JP09307
US 103 HES	(with level control)	410 x 330 mm	11/2"	30 mm	3G1.0	10 m	14.1 kg	JP09308

PERFORMANCE

Туре	Delivery head H [m]	1	2	3	4	5	6	7	8	9	10	12
US 73 HE and HES	Flow rate Q [m³/h]	19	17	15	12	10	8	6	4	2		
US103 HE and HES		28	26	23	21	19	17	15	12	10	8	2

ELECTRICAL DATA

Туре	Type of current	Voltage Volt	Motor P1	rating kW P2	RPM min-1	Current Ampere	Motor protection	Plug
US 73 HE and HES	1-phase	1/N/PE~230	0.83	0.50	2510	3.9	integrated	Safety-
US103 HE and HES	1-phase	1/N/PE~230	1.37	0.98	2700	6.0	integrated	Safety-

Single pump installation with GR US 73 + 103 sump area with GR 40 min. 40 x 65 cm US 73 + 103 sump area without GR min. 40 x 40 cm (without illustration) (4) (8) alarm device nin.385-US (10)25865-07 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 a EN 12050-4-proofed swing-type check valve. Additionally we recom-

Duplex pump installation US 73 + 103 sump area without GR min. 40 x 80 cm US 73 + 103 sump area with GR 40 min. 65 x 80 cm (without illustration) Suspend control unit in a dry room. (8) peak load ON ALARM basic load ON OFF ↑ Notice of min. distance! 25642-03 In accordance with DIN EN 12056-4 Abs. 5.1, it has a built-in automatic spare pump

or a double attachment included, which ensures that sewage drainage is not interrupted.

mend an alarm system.

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TECHNICAL DATA

Pump

Vertical, single-stage, submersible, with free inlet, volute casing with 1½" (female) discharge branch, open centrifugal impeller, passage 30 mm.

Bearings

Common shaft for pump and motor mounted in ball bearings and permanently grease lubricated.

Seal

Silicon carbide mechanical seal, oil chamber and duplex rotary seal towards the motor section, safe to run dry

Motor

Submersible, without oil, motor type of enclosure IP 68, insulation class F, winding thermostat protects the motor from overload, starting via plug, automatically via mounted circuit or submersible ball contact switches.

Materials

Volute casing made of GG grey cast iron, power supply through rubber insulated flexible cable for hot water operation, terminal board lid, impeller, wear plate and strainer base made of glass-fiber reinforced plastic, motor casing and shaft made of stainless steel

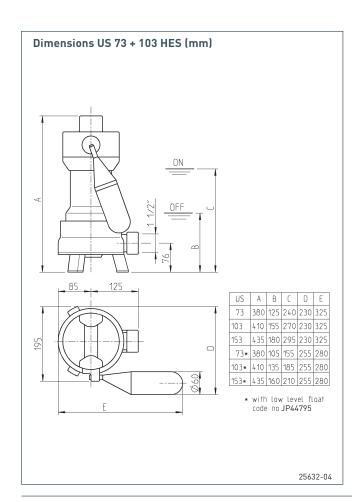
Installation

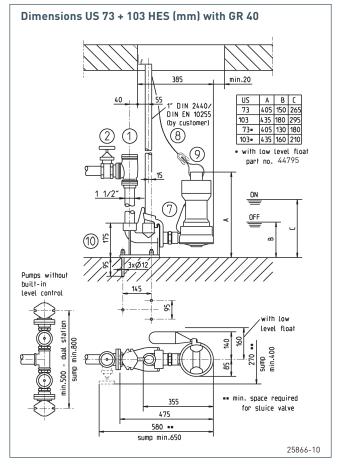
Install pump vertically, if installed permanently, provide detachable connection or install with guide rail system GR 40

Scope of supply

Pump acc. to EN 12050 ready for connection with cable and safety plug







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ACCESSORIES

		Code No.	US 73 HE	US 73 HES	US 103 HE	US 103 HES
B	Elbow ball check valve 1½" (DN 40), HW D PN 6 DIN EN 12050-4 170 125 1½"	JP44783	•	•	•	•
D	Swing-type check valve H W D for hot water 1½" (DN 40) 80 85 1½"	JP44784	•	•	•	•
2	Stop valve 1½" (DN 40), PN 16 H W D 125 max. 60 1½"	JP44786	•	•	•	•
3	Elbow 11/2"	JP45953	•	•	•	•
4	Alarm unit AG3 with submersible ball contact switch, separate, mains-dependent, with potential-free contact and 3 m cable	JP44981		•		•
	Alarm unit AG10 ditto, with 9.5 m cable	JP44892		•		•
	Alarm unit washing machine stop AW3 with submersible ball contact switch with 3 m cable, separate, mains-dependent	JP44895	•	•	•	•
5	Level controls for single units (see NE level controls for description)				
	NE 1A H (W-Current) with sub. ball contact switch 3.0 m u. Alarm	JP24766	•		•	
	NE 2A H (W-Current) with sub. ball contact switch 9.5 m u. Alarm	JP24767	•		•	
	Counterweight (1 piece)	JP17541	•		•	
	Separate level controls for duplex units (see section on Level controls for description)					
4	BD 00E Single-phase current	JP45735	•		•	
	Submersible switch pack BH with 3 submersible ball contact switches with 9.5 m cable and fixing device	JP24768	•		•	
	Submersible switch pack BHmG with 3 submersible ball contact switches with 9.5 m cable and counterweight	JP24769	•		•	
6	Rechargeable battery for off the line operation of the alarm system	JP44850	•	•	•	•
7	Special float assembly for low switching points * Switching points: US 73 ON/OFF US 103 ON/OFF without GR 155/105 mm 185/135 mm with GR 180/130 mm 210/160 mm	JP44795		•		•
	Chain certified, stainless steel, 2.5 m, 5 rings,160 kg, (EN 818 mod.	JP45901	•	•	•	•
	Chain certified, stainless steel, 5.0 m, 8 rings,160 kg, (EN 818 mod.	JP45902	•	•	•	•
9	Webbing with shackle A 0.6	JP45168	•	•	•	•
1	Guide rail system GR 40	JP25592	•	•	•	•

^{*} only for single units

