PUMPS

Submersible Water Pump

Model WDH-SP750

Dear Customer,

You have chosen a high-quality product. To ensure you get the most out of this product, here are a few tips:

In the event of any problems:

We hope the unit meets your expectations. Should there ever be cause for a complaint, despite our utmost care, please do not hesitate to contact us, as your satisfaction is very important to us and we would like to resolve any misunderstanding.

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1. Important safety instructions

Read these safety instructions thoroughly before using the appliance and keep this manual in a safe place.

DANGER Risk of fatal electric shock in water.

Never install or switch on the pump if people are in the pumped medium (e.g. in a swimming pool) or come into contact with the pumped medium. You must disconnect the unit from the mains before carrying out any maintenance or cleaning work.

DANGER Risk of electric shock due to faulty components.

Do not operate the pump if the mains cable, plug or pump is defective, if there is visible damage or if there is a smell of burning. If the plug is cut off or the cable is shortened, the warranty will be void as operational safety can no longer be guaranteed. A damaged connection cable must be replaced by the manufacturer, their customer service department or an equally qualified person.

WARNING RCD.

The electrical connection must be equipped with a highly sensitive residual current circuit breaker (RCCB): △ ≤ 30 mA (DIN VDE 0100-739).

WARNING Risk of explosion and fire.

Never pump solvents, solvent-based liquids or undiluted acids (e.g. petrol, paint thinner, heating oil). The spray mist is highly flammable, explosive and toxic. Never use the pump in areas at risk of explosion (e.g. petrol stations).

WARNING Risk of injury due to improper repair.

Repairs must only be carried out by authorised qualified personnel. Improperly carried out repairs can pose a significant risk to the user. Do not make any modifications to the device yourself. Only qualified personnel are permitted to open the device.

CAUTION Safety of children and vulnerable persons.

The device must not be used by children under 16 years of age. The pump is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they are supervised or instructed by a person responsible for their safety during use. The device must always be supervised when children are nearby.

NOTE Intended use.

The submersible water pump is intended exclusively for domestic use. It is not intended for commercial or industrial use. It is suitable for fresh water, tap water and chlorinated swimming pool water. It is not suitable for sewage, salt water, corrosive or highly flammable substances, nor for foodstuffs or as a fountain pump for garden ponds. The maximum water temperature is 35 °C.

NOTE Protection against dry running.

Running dry (i.e. when there is no water in the pump) must be avoided, as this will cause damage to the pump. To prevent running dry, do not connect the pump to the mains at any time during installation. This pump is not suitable for continuous operation (e.g. for permanent circulation in filter systems).

1.1 Further important notes

1. Always place the pump upright on a straight and level surface during operation.
2. Extension cables must be approved for outdoor use. Minimum cross-section: 1–10 m → 1.5 mm²; 10–30 m → 2.5 mm². The plug and connection must be waterproof.
3. If a cable reel is used, it must be fully unwound to prevent the cable from overheating.
4. If a float switch is used, it must be able to float freely and must not be obstructed in any way.
5. The maximum particle size of 16 mm refers to soft, flexible particles — not to sand or stones.
6. Do not carry the submersible pump by the connection cable, but only by the handle. If necessary, attach an additional, sturdy rope to the handle.
7. Damage caused by pump malfunctions should be prevented by taking appropriate measures (e.g. alarm system, standby pump). For permanent installation with rigid pipework, we recommend a non-return valve.
8. The electrical connections must be protected from moisture.
9. The submersible water pump must be protected against frost.
10. Do not leave the pump unattended during operation.
11. Always disconnect the unit from the mains when not in use.

2. Description of the unit components

Fig. 1: WDH-SP750 Submersible Water Pump – main components.

3. Scope of delivery

Please check after unpacking that all parts are present:

1. Submersible water pump with mains cable
2. Operating instructions

> ⓘ **NOTE: Hose not included.**
>
> The hose is not included and must be purchased separately. Suitable hoses have diameters of 1″, 1¼″ or 1½″.

4. Areas of application

> ⓘ **NOTE Lubricants.**
>
> The pump contains lubricants which may contaminate the pumped liquid if the unit is used incorrectly or is damaged. The lubricants used are biodegradable and pose no health risks.

Typical applications for submersible water pumps include the draining of ponds, basins, storage tanks and drainage shafts, as well as emergency drainage following flooding and high water levels. If the pump is used in ponds, precautions must be taken to prevent pond inhabitants from being sucked in.

Thanks to its vertical pump outlet and integrated float switch, the WDH-SP750 pump is also particularly suitable for use in narrow drainage shafts. It is suitable for both permanent and temporary installation.

5. Installation

> ⓘ **NOTE Do not connect to the mains yet.**
>
> The unit must not be connected to the mains during the entire installation process.

When laying the connection pipes, ensure that no weight, vibrations or tension are exerted on the pump. Furthermore, the connection pipes must not have any kinks or a reverse gradient.

5.1 Installation of the discharge pipe

The discharge pipe carries the fluid from the pump to the point of use. To avoid flow losses, it is recommended to use a discharge pipe of the largest possible diameter – ideally matching the pump outlet.

To facilitate installation, the scope of delivery includes a multi-dimensional connector with the following connection options: 33.25 mm (1" male thread) hose connection with internal diameters of 25 mm and 33 mm.

When using the external thread or the 33 mm hose connection, the narrower parts of the multi-size connector that are not required must be cut off at the designated cut-off points as follows (see illustration):

- a) 33.25 mm external thread (1" male)
- b) 33 mm hose connection

We recommend using a household saw to remove the parts that are not required.

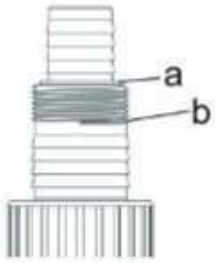

Fig. 2: Multi-dimensional connector

5.2 Permanent installation

In the case of a permanent installation, rigid pipes prove to be the ideal pressure line. With this type of installation, the pressure line should be fitted with a non-return valve immediately after the pump outlet to prevent any liquid from flowing back once the pump has been switched off. To facilitate maintenance work, it is also recommended to install a shut-off valve downstream of the pump and non-return valve. This has the advantage that, when the pump is dismantled, closing the shut-off valve prevents the pressure line from draining.

5.3 Positioning the pump

When positioning the pump, ensure that the immersion depth specified in the technical data is not exceeded. Similarly, the water level must not fall below the minimum self-priming level. During subsequent operation, the water level may then drop to the minimum suction level.

Place the pump on firm ground. Do not place the pump directly on loose stones or sand. When positioning the pump, ensure that it cannot tip over or sink into the ground with its suction openings. The suction of sand, sludge or similar substances must be avoided. The carrying handle is to be used exclusively for positioning, lifting and carrying the pump. If necessary, a suitable rope that can be attached to the carrying handle should be used to lower and raise the pump. Under no circumstances should the pressure hose, the mains connection cable or the float switch cable be used for positioning, lifting or carrying the pump.

6. Commissioning

6.1 Safety precautions before commissioning

1. Check that the pump is standing securely on the floor.
2. Check that the pressure hose or pressure pipe is properly secured.
3. Check that the electrical connection is exactly 230 V ~ 50 Hz.
4. Check that the socket is in good condition.
5. Ensure that water or moisture can never come into contact with the mains connection.

6.2 Instructions for use

⚠ WARNING Never hang the pump by the cable or hose.

Under no circumstances must the pump be suspended from the pressure hose, the float cable or the supply cable. If these components are damaged, the pump may fall or there is a risk of electric shock.

1. Connect a hose to the pump. The 1½″ hose can be connected directly to the pressure outlet. For the 1″ and 1¼″ hoses, use the respective threaded adapters.
   Note: Smaller diameters mean a lower flow rate and greater strain on the pump.
2. Hang the pump by the handle or place it on the bottom of the water container. The pump must be in an upright position.
3. The bottom of the water container must be clean and free of sediment or contamination. We recommend placing the pump in a shallow container (e.g. a bucket) to prevent contamination.
4. Ensure that all air escapes from the valve when submerged in water.
   If no air escapes when submerged, the valve is likely to be blocked by debris. Clean the valve before continuing to use the pump.
5. Position the pump so that the float can move freely inside. The pump shaft must be at least 40 × 40 × 50 cm in size.
6. Connect the pump to the mains supply — it will start automatically.

6.2.1 Operating modes

Automatic operation: The pump starts pumping as soon as the water level reaches at least 170 mm and switches off as soon as the level drops to 70 mm.

Manual operation: The pump starts immediately when connected to the mains. The water level must be at least 75 mm for the pump to start pumping. The pump can continue pumping until a water level of 25 mm is reached.

⚠ WARNING Dry running must be avoided.

Dry running must be avoided at all costs! Please switch off the pump in good time!

All nozzles, valves, etc. must be open when the pump is submerged and during subsequent operation so that the air can escape completely from the suction lines.

7. Cleaning & Storage

⚠ DANGER Risk of electric shock during maintenance work.

Always unplug the mains plug before carrying out any maintenance or cleaning work. Never work on the plug or live components with wet hands.

7.1 Cleaning

1. After each use with dirty water, clean the pump immediately with clean tap water to prevent solid dirt residues.
2. Soak any dried-on dirt residues before the next use to prevent the pump from becoming blocked.
3. Rinse out fibrous particles in the pump housing with a jet of water.
4. If the pump is moved frequently, rinse it with clean water after each use.
5. Remove any deposits from the float switch with clean water.

7.2 Cleaning the integrated float switch

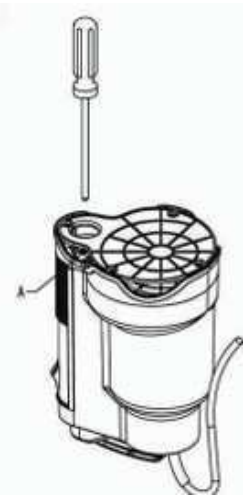

Fig. 3: Step 1

Fig. 4: Step 2

Fig. 5: Step 3

Fig. 6: Step 4

Fig. 7: Step 5

1. Turn the pump upside down and press on the indicated point with a screwdriver.
2. Fold the float chamber cover outwards.
3. Once you have removed the cover, take out the float guide rod with the integrated magnet that operates the float.
4. Clean the guide rod and the magnet housing. Remove any dirt and deposits from both. Reinsert the float unit correctly into the pump.
5. Refit the float chamber cover into the pump. Ensure that the float switch for automatic or manual operation is working properly.

7.3 Dismantling in the event of heavy deposits

1. Loosen the 4 screws on the underside of the suction basket.
2. Remove the suction basket from the pump housing.
3. Clean the impeller thoroughly with clean water.
4. Reassemble the parts in reverse order.

7.4 Maintenance intervals

1. Check the float switch regularly — lift and move it so that the float inside clicks audibly.
2. For a permanent installation, check the function of the float switch every 3 months.
3. The bottom and walls of the shaft should be cleared of sludge every 3 months.
4. The condition of the pump should be checked regularly by means of test runs.

7.5 Storage

1. Protect the pump from frost and store it in a frost-free place.
2. Use the original packaging for long-term storage.

8. Technical data

Feature	Value
Model designation	WDH-SP750
Voltage	220 – 240 V / 50 Hz
Max. power consumption	750 W
Pipe diameter	1″, 1¼″, 1½″
Max. delivery head	8.5 m
Max. flow rate	13,000 l/h
Max. pressure	0.9 bar
Max. immersion depth	7 m
Hose length	max. 15 m
Max. water temperature	35 °C
Continuous operation	max. 24 h (recommendation: 1 h operation, 10 min break)
Max. number of starts per hour	30, evenly distributed
Service life	approx. 3,000 hours in continuous operation
Max. noise level underwater	approx. 50 dB(A)
Protection class	IPX8
Connection cable	10 m
Cable type	H05RN-F
Min. self-priming level during manual operation	75 mm

Feature	Value
Min. starting suction level during manual operation	50 mm
Min. Cut-off level during manual operation	25 mm
Start level during automatic operation	170 mm
Cut-off level in automatic mode	70 mm
Dimensions (H × W × D)	295 × 220 × 190 mm
Weight	5,2 kg

Technical specifications are subject to change.

9. Troubleshooting

Fault	Cause	Solution
Pump does not deliver any liquid, motor does not run	· No power supply · Thermal motor protection has tripped · Capacitor defective · Impeller blocked · Float switch blocked (in automatic mode) · Float switch faulty (in automatic mode)	· Check that there is power and that the plug is properly connected · Disconnect the pump from the mains, allow the system to cool down, rectify the cause · Clear the blockage from the impeller · Clear the blockage from the float switch or clean it
Pump is not delivering any liquid, but the motor is running	· Suction inlets blocked · Pressure pipe blocked · Air entering the pump housing · Liquid level has fallen below the minimum suction level (in manual operation)	· Clear any blockages · Start the pump several times to expel all the air · Ensure that the minimum suction level is not exceeded
Pump does not switch off	· Float switch cannot sink	· Position the pump correctly on the bottom of the shaft
Insufficient flow	· Inlet strainer/suction opening blocked · Flow rate reduced due to dirty/abrasive water	· Clean the inlet strainer/clear the blockage · Clean the pump, replace worn parts
Pump switches off after a short period of operation	· Thermal protection switch stops the pump due to dirty water · Water too hot (thermal protection switch trips)	· Unplug the unit, clean the pump and the shaft · Maintain a maximum water temperature of 35 °C

Fault	Cause	Solution
The pump does not switch on or off in automatic mode	· The pump is not positioned vertically, restricting the float's freedom of movement.	· Position the pump vertically

10. Warranty, Conformity, Disposal

10.1 Warranty Statement

Without prejudice to statutory warranty claims, the manufacturer provides a warranty in accordance with the laws of your country, for a minimum of 1 year (in Germany 2 years for private individuals). The warranty period begins on the date of sale of the appliance to the end user.

The warranty covers only defects attributable to material or manufacturing faults. Warranty repairs may only be carried out by an authorised service centre. To claim under the warranty, the original proof of purchase (showing the date of sale) must be provided.

The following are excluded from the warranty:

1. Normal wear and tear
2. Improper use (e.g. overloading the device or using unauthorised accessories)
3. Damage caused by external influences, the use of force or foreign objects
4. Damage caused by failure to follow the user manual (e.g. incorrect mains voltage)
5. Devices that have been completely or partially dismantled

10.2 Conformity

The device has been tested and manufactured, in whole and/or in part, in accordance with the following (safety) standards:

Naturally, it is CE (LVD and EMC) compliant.

Conformity	Tested in accordance with (EN standards)
CE (LVD)	EN IEC 60335-1:2023+A11:2023 EN 62233:2008 EN IEC 60335-2-41:2021+A11:2021
CE (EMC)	EN 55014-1:2021 EN 61000-3-2:2019+A1:2021+A2:2024 EN 61000-3-3:2013+A1:2019+A2:2021+AC:2022-01 EN IEC 55014-2:2021

10.3 Correct disposal of this product

Within the EU, this symbol indicates that this product must not be disposed of with household waste. Old appliances contain valuable recyclable materials that should be recycled. Furthermore, the environment and human health should not be harmed by uncontrolled waste disposal. Please therefore dispose of old appliances via suitable collection schemes or return the appliance to the place of purchase for disposal.

10.4 Information on accessibility

This user manual has been designed in accordance with the requirements of the Accessibility Enhancement Act (BFSG) and the associated regulation (BFSGV). It is available for download as an accessible PDF (PDF/UA in accordance with ISO 14289) at www.AKTOBIS.de and is compatible with screen readers, text-to-speech functions and Braille displays.

We hope you enjoy using this device
Aktobis AG